

BHARAT SANCHAR NIGAM LIMITED

(A Govt of India Enterprise) (Electrical Wing)

Sub-Divisional Engineer (E) BSNL Electrical Sub-Division III, Seventh Floor, K.K.Nagar Telephone Exchange K.K.Nagar Chennai-78

TENDER DOCUMENT

Name of work: Providing EI & Fans, Service Connection Panel, Earthing, AFD System for shifting of Choolaimedu RSU from existing location to New Location (SW: Auxiliary works)

Div NIT no: 02/ED-I/BSNL/CH/23-24

Sub Div NIT no: 02/ESD-III/BSNL/23-24

Date of opening: 12.04.2023

Telephone No. of agency:

Name of the Agency	
Address	

This tender document contains 26 pages (Twenty six pages) only

Contractor SDE (E)

1

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INFORMATION AND INSTRUCTIONS FOR BIDDERS

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

1	Name of work	Providing EI & Fans, Service Connection Panel, Earth AFD System for shifting of Choolaimedu RSU from exist location to New Location (SW: Auxiliary works)
2	Estimated cost put to tender	Rs.42639/-
3	Earnest Money	Rs.853/-
4	Period of completion	15Days
5	Tender Fee(Non-refundable)	Rs.150 + 18% GST = 177/-
6	Last date & time for	Up to 15:00 Hrs. on 12-04-2023
	submission of tender	
7	Date and time for opening of	15:30 Hrs. on 12-04-2023
	tender	

ELIGIBILITY CRITERIA

The bidders satisfying the following condition:

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

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

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

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

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

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

BSNL EW-6

Bharat Sanchar Nigam Limited Electrical Wing

Electrical Division: ED-I, Chennai-10 Sub Division: III, Chennai-78

Item rate tenders on single bid system are invited on behalf of CMD, BSNL for the work

"Providing EI & Fans, Service Connection Panel, Earthing, AFD System for shifting of Choolaimedu RSU from existing location to New Location (SW: Auxiliary works)

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.

- Tenders which should always be placed in sealed covers with the name of the work written on the envelope will be received and opened by the tender opening authority as per the date and time mentioned in INFORMATION AND INSTRUCTIONS FOR BIDDERS. Unsealed tenders will be summarily rejected.
- 2. Intending bidder is eligible to submit the bid provided that he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority as per the eligibility conditions mentioned in the NIT notification page.
- 3. The work is estimated to cost Rs.42,639/- This estimate, however, is given merely as a rough guide.
- 4. Agreement shall be drawn with the successful bidder on prescribed form as amended up to the date of opening of tender. Bidder shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
- 5. The time allowed for carrying out the work will be 15Days from the 10th day after the date of written order to commence the work.
- 6. The site for the work is available / or the site for the works shall be made available in parts. The successful bidder shall execute the work in coordination with other agencies working in the campus.
- 7. The bid documents consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website Chennai.bsnl.co.in at free of cost. The BSNL EW-8 document can be seen from the web site Chennai.bsnl.co.in at free of cost.
- 8. The Tender Fee n the form of Demand Draft issued by the Nationalized / Scheduled bank authorized by the Reserve Bank of India, drawn in favour of **BSNL, Chennai Telephones** payable at **Chennai.** The validity of the tender cost in the form of DD shall be **60 days** from the date of opening.
- 9. The Earnest money deposit (EMD) in the form of Demand Draft / FDR / BG (BG is only for Air Conditioning, Diesel Engine Alternator, Lifts, and Sub Station works wherever the amount of EMD is more than Rs.20,000)/ CDR of a nationalized / scheduled bank authorized by the Reserve Bank of India, drawn in favour of BSNL, Chennai Telephones payable at Chennai. The validity of the EMD in the form of DD shall be 60 days from the date of opening. If the EMD is in the form of CDR/FDR/BG, the validity shall be 180 days from the date of opening. In case of L1 bidder, the validity of CDR/FDR/BG is to be extended up to the observation period as that of the Performance guarantee / Security deposit.

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

- 10. The last date for submission of bid is 12.04.2023 up to 3:00 PM and the bid submitted shall be opened at 03:30 PM on the day. If a holiday is declared on the tender opening day, the tender will be opened on the next working day.
- 11. Performance Guarantee: The bidder is required to furnish Performance guarantee for an amount equal to 5% of the contract value in the form of bank guarantee/CDR/FDR/DD (of a Nationalized/ Scheduled Bank in a standard format) within two weeks from the date of issue of acceptance letter. This period can be further extended by the Engineer-in-charge up to a maximum period of two weeks on written request of Bidder. The validity period of the performance security in the form of performance bank guarantee shall be: Three Months from the date of actual completion of work, for AMC works; and One year from the date of actual completion of work for all other works. In case the bidder fails to deposit the said performance guarantee within the stipulated period, including the extended period if any, the Earnest Money deposited by the bidder shall be forfeited automatically without any notice to the bidder and the bidder will not be allowed to participate in the re tendering for the same work.
- 12. Security Deposit: In addition to Performance guarantee stated above, a sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum be deducted with the sum already deposited as earnest money, will amount to security deposit of 5% of the contract value of the work. The security deposit shall be released after an observation period as follows: Three Months from the date of actual completion of work, for AMC works; and One year from the date of actual completion of work for all other works.
- 13. If it is found at any stage of tender scrutiny after submission of tender that the bidder has made any correction/addition/alteration/omission intender documents vis-à-vis tender documents available on the website /original Draft NIT in office, the bid shall be treated as non-responsive and shall be summarily rejected and the BSNL shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further, the bidder shall not be allowed to participate in the retendering process of the work.
- 14. The Tender documents shall not be sent through the Courier/Post. Tender documents received through Courier/post shall not be opened/considered at all. All communication with the bidders shall be in writing. Fax / E-mail shall be covered under this category and considered as adequate means of communication.
- 15. Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders, the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the BSNL and local conditions and other factors having a bearing on the execution of the work.
- 16. The competent authority on behalf of the CMD does not bind himself to accept the lowest or any other tender and reserves to himself the authority to reject any or all the tenders received without

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

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

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

General Instructions to the Bidders

- 1. The intending bidder must read the terms and conditions of BSNL-EW 6 carefully. He should only submit his bid, if he considers himself eligible and he is in possession of all the documents required.
- 2. Information and instructions for bidders posted on website shall form part of bid document.
- 3. Applicants are advised to keep visiting the above mentioned website from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.
- 4. Even though any bidder may satisfy the above requirements, he would be liable to disqualification if he has:
 - a. Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the eligibility criteria document.
 - b. Record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.
- 5. If any information furnished by the bidder is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in BSNL. The BSNL reserves the right to verify the particulars furnished by the applicant independently.
- 6. GST and any other tax applicable in respect of this contract shall be borne by the bidder himself. The bidder shall quote his rates considering all such taxes. The TDS as per the Govt. regulations will be recovered from the contractor.

7. **Tender Evaluation**:

- (a) The evaluation and comparison of responsive bids shall be done on the basis of Net cost to BSNL on the prices offered inclusive of packing, forwarding, freight and insurance charges etc., but excluding GST. The bid with lowest net cost as elaborated above will be the L1 bidder.
- (b) Vendors should furnish the correct GST Rate in the price schedule. If the Input Tax Credit is found to be not admissible at any stage subsequently owing to wrong furnishing of GST Rate, then the vendors will be liable to refund such non-admissible amount, if already paid, along with penalty if charged by the concerned authority.
- 8. However, pursuant to the constitution (Forty-sixth amendment) act, 1982, if any further tax or levy is imposed by statute, after the last date of receipt of tenders, and the contractors there upon necessarily and properly pays such taxes/ levies, the contractor shall be reimbursed the amount so paid, provided such payment, if any, is not in the opinion of Superintending engineer (whose decision shall be final and binding) be attributable to delay in execution of work within the control of contractor.
- 9. The Contractor shall, within a period of 30 days of imposition of any further tax or levy in pursuant to the constitution of (Forty sixth amendment) act 1982 give a written notice thereof to the Engineer-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

10. Bye laws Indemnity against liabilities:

- a. The bidder shall comply with all bylaws and regulations of the local and statutory authorities having jurisdiction over the works and shall be responsible for payment of all fees and other charges and giving and receiving all necessary notices and keep the Engineer –in-charge informed about the notices issued and received.
- b. The bidder shall indemnify the department against all claims in respect of patent rights design, trademark or name of other protected rights in respect of any plant, machine, work or materials used for or in connection with the works or temporary works and from and against all claims demands, proceedings, costs, charges and expenses whatsoever in respect of or in relation thereto.
- c. The bidder shall defend all actions arising from such claims and shall himself pay all royalties, License fees, damages, costs and charges of all and every sort that may be legally incurred in respect hereof shall be borne by the bidder.
- d. All liabilities / penal recoveries on matters arising out of tax /levies such as incorrect deductions, discrepancies in the filing of returns, revised assessments by the concerned authorities etc., shall be borne by the bidder.

11. Termination of contract on death of contractor:

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

- 12. Indulging of contractor in criminal /antisocial activities and cases under investigation/charge sheeted by CBI or any other government agencies etc.:
 - If the CBI/Independent External Monitor (IEM) /Income tax/ Sales Tax /GST/ Central Excise/Custom Departments recommend such a course Action will be taken as per the directions of CBI or concerned department.
- 13. As a general notion, the terms and conditions/instructions contained in various pages of this document are addressed assuming the bidder as 'Male'. However, the same shall remain and assumed to be addressed in case of 'Female' bidder also, except for the gender centric words, which shall be 'female' centric at appropriate places.

FORM 'A'

Undertaking to abide by EW 6 & EW 8

"	Son/Daughter of	
Resident of	hereby give an undertaking	
that I have read the complete bid doc	ument and I am aware of all the clauses and sub clauses of BSNL EW	
6&8 forms and I confirm that I will ab	ide 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 h that	ereby give an undertaking
tilat	
* I/We have employed only persons in our establishment and hence provisions Act, 1952 is not applicable to my / our establishment.	the EPF and Miscellaneous
* I/ We have registered as per the EPF and Miscellaneous provisions Act, 1952 is We undertake to keep it valid during the currency of contract.	and our registration no**
In case at any stage, it is found that the information given by me is false / the absolute right to take any action as deemed fit/without any prior intimation	
* strike out whichever is not applicable	
**Attach a self-attested photo copy of the above said EPF registration certificat	e.
(Seal of the firm) (Signature of Bidder) Undertaking regarding ESI provisions	
Onder taking regarding 251 provisions	
"I Son of hereby give an under	
* I/We have employed only persons in our establishment and hence provisions Act,1948 is not applicable to my / our establishment.	the ESI and Miscellaneous
* I/ We have registered as per the ESI and Miscellaneous provisions Act, 1948 is We undertake to keep it valid during the currency of contract.	and our registration no.**
In case at any stage, it is found that the information given by me is false / the absolute right to take any action as deemed fit/without any prior intimation	•
* strike out whichever is not applicable	
**Attach a self-attested photo copy of the above said ESI registration certificate	<u>2</u> .
(Seal of the firm) (Signature of Bidder)	

FORM 'C'

Sub Divisional Engineer or Equivalent

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:

FORM 'D'

No Near re	lative working certificate	TORIVI D
I Son /Daughter of	ShriResident	of
hereby certify that none of my relative(s) as	defined in the tender document is/are en	nployed in BSNL
unit as per details given in tender document.	In case at any stage, it is found that the i	nformation given
by me is false/incorrect, BSNL shall have the a	absolute right to take any action as deeme	d 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	5			(hereinafter calle	ed "the bidder(s)") has submitted its
Tender d	lated	for the v	vork		
					KNOW ALL MEN by
these	presents	that	WE		OF
		havir	g our regi	istered office at	(hereinafter
called "t	he Bank") are	bound ur	ito		_ (hereinafter called "the BSNL") in
the sum	of		for which	payment will and tr	uly to be made of the said BSNL, the
Bank bin	ds itself, its su	ccessors a	nd 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

Name of work: Providing EI & Fans, Service Connection Panel, Earthing, AFD System for shifting of Choolaimedu RSU from existing location to New Location (SW: Auxiliary works)

S.No	Description of Items	Qty	Rate	unit	Amount
1	Supply and laying 1 1/2" MS pipe for the extension				
	of exhaust pipe line of the 15KVA EA set on surface				
	of wall including providing suitable bends, sealed				
	flange ends, heavy duty wall clamps fastened with				
	heavy duty hanger fastners to the wall and				
	providing suitable rigid screwable metal clamps for				
	the exhaust pipe line supports, painting the				
	pipeline etc as reqd.	12 mtr		mtr	
2	Supply and fixing 18" exhaust fan in the existing				
	supply air opening of 15KVA EA set including pdg				
	all supports and accessories etc as reqd.	1 No		Job	
					Τ
3	Supply and fixing 16" pedestal fan including all				
	supports and accessories etc as reqd.	3 No		Job	
4	Supply and filling suitable engine lubrication oil for				
4	the 20KVA EA set etc as reqd.	0.11			
	the Zokva EA set etc as requ.	8 ltr		Job	
5	Supply and fixing filter kit for Lub oil, fuel line etc				
	as reqd.	1 job		Job	
					_
6	Providing cleaning service including clearing the				
	glass wool debris and other rubbish left over				
	during dismantling and shifting of old CMU RSU by				
	different wings of BSNL including clearing the				
	debris with the coordination of local GCC				
	personnel to the nearest permitted dumbing yard,				
	loading, unloading, arranging suitable				
	transportation etc as reqd.	1 job		Job	
	Supply and fiving 100 4D isolator in the suisting TDN				<u> </u>
7	Supply and fixing 100 4P isolator in the existing TPN				
	MCB DB i/c pdg necessary supports and				
	interconnections etc as reqd	1 job		each	
8	Laying of 1no PVC insulated PVC sheathed / XLPE				
O	power cable of 1.1KV grade of following size on				
	wall surface as required.				
	·	20			
a	Upto 35sqmm (clammped with 1mm thick saddle)	20 mtr		mtr	<u> </u>

9	supply and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated PVC sheathed / XLPE Al conductor cable of 1.1KV grade as reqd			
а	3 1/2 x 25sqmm	2 set	set	
			Total	
			Add GST 18%	
			Say	

Sub Divisional Engineer (E)

IMPORTANT NOTES:-

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

SPECIFICATION

- 1) The work shall be done as per current CPWD Specification for Electrical works amended from time to time & Indian Electricity Rules as attended up to date.
- 2) The work shall be supervised by qualified technical staff of the Contractor. The layout of the work will be given by the Engineer in charge or his duly authorized representative at the site of work.
- 3) The following wiring shall be done in separate conduits:
 - a) Power plug wiring. b) Light & Fan point wiring. c) Emergency Light point Wiring (AC Supply / DC Supply).d) Telephone wiring. e) Clock wiring. f) AC Unit wiring.
- 4) The number of power plug points, and emergency light points fed from DC supply shall not exceed two per circuit in any of the cases. The earthing sets shall be provided in presence of engineer in Charge or his authorized representative.
- 5) Sample of all the materials, fittings, accessories, IC switch gears etc., shall be got approved from the Engineer in-charge before using the same on work. The rejected materials shall be removed immediately from the site of work.
- 6) The Contractor will be have to carry out the following tests at his cost and intimate test 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 d) Earth continuity test of the surface/recessed conduits.
- 7) 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 notice given to him.
- 8) The outlet boxes, IC BOXES FOR Switches and end of conduits etc. of different types of electrical wiring as mentioned in clauses above shall be painted inside / outside with different colours each signifying the different categories mentioned so as to avoid mixing of various circuits and their wiring and nothing extra will be paid for this.
- 9) ALL MATERIALS SHALL BE "ISI" MARKED / OR APPROVED BY THE DEPARTMENT.
- 10)At the time of laying conduits in the slab and in recess, the contractor will draw MS fish wire 16 SWG Dia. throughout conduit pipe and will have to take special care, so that the conduits do not pass through air conditioning ducts, grills, columns beams etc., If any such necessity arises, permission is to be obtained before such works in carried out. In case or failure the contractor will not be paid on this account. The successful tender should recess the conduit in the walls before the walls are plastered and in collaboration with building work.
- 11)The bakelite covers for the tumbler / piano switches, plug sockets, etc., shall not be removed or broken for taking connections which shall be done at the back by Prdg. suitable wooden rider in the IC boxes when found necessary. All IC boxes for switches, plug and regulators etc., shall be provided with 3mm thick bakelite sheet covers. The runs of various circuit wiring at various places shall be kept minimum.
- 12)All the IC distribution boards, sub main boards and their complete fittings shall be sign written, clearly indicating the No. of distribution board, the type of load, it is servings and the number of circuit connected in the distribution box etc.
- 14)Under ground cables both of 1.1 kV grade and 11 / 22 kV should be subjected to pressure/insulation tests before and after laying the same in the ducts .In case of unsatisfactory test, the cost of all repairs and replacements and all extra work of removal and relaying will have to be made good by the contractor at his own risk. While make the end connections of wires, no strand shall be cut and the termination of wires shall be done with necessary lugs and ferrules without any extra payment.
- 15)The bus bars of the single phase distributions box shall be strip instead of sheet metal. The lugs shall be provided while terminating 8 SWG GI wire for earth continuity without extra payment. The termination of conduits in the junction box should be done by making proper holes instead of cutting the box. One rupee per empty boxes for the ceiling fans, fittings and other items supplied

by the department will be recovered from the contractor irrespective of the size of the box.

16)The contractor will have to make arrangements to take the material to site of work at his own cost of risk. If any conduits and loop earth wire laid by Department, before the award of the work, the recovery for the same will be made from the contractor at the rate specified in the SR-2007(internal & External) plus the enhancement of this tender.

SPECIFICATION FOR CABLE LAYING

- 1) The work will be carried out as per current CPWD specifications and Indian Electricity rules amended time to time. The work will be supervised by qualified supervisor from the contractor side.
- 2) The layout of the work will be given by the Engineer in charge or his duly authorized representative at site of work and the route for the cable laying should be got approved by the Engineer in charge.
- 3) All necessary tools & plants shall be arranged by the contractor at his own cost and risk. The contractor will be held responsible for any damage to the building or equipment at the time execution of work.
- 4)The cable shall be as per the relevant IS amended from time to time, Test certificate should be submitted by the contractor for the cables supplied by him. The whole work shall be guaranteed for the period of one year from the date of completion .The cable should be tested on load after laying the same. Any deviation proposed by the contractor should be clearly indicated by him along with tender. The tenderer should specifically mention the make of the cable proposed to be used by him.
- 5) Entire materials intended for use should be got approved by the Engineer-in-charge before the actual use. The rejected materials shall be removed immediately from the site of work.
- 6) The contractor shall submit completion plan of cable route diagram to scale in triplicate at the time of completion of work itself as per clause 6 a (i). The contractor will submit the following test result at his own cost and risk. (a) Insulation test (b) Earth continuity (c) Polarity test.
- 7) Necessary materials for erection of poles such as cement foundation bolts etc., shall be arranged by the contractor for switch no extra cost is payable.
- 8) The cable laying, cable jointing shall be carried out in the presence of Engineer in charge or his duly authorized representative. In making connection on switches and other terminals no strand of conductor shall be cut to facilitate entry of conductor, but by use electrically equivalent copper conductor suitably insulated and / or soldered, shall be adopted.

CONTRACTOR

SUB DIVISIONAL ENGINEER (E)

LIST OF INDIAN STANDARDS

I.S.277	Galvanized steel sheets.
I.S.325	Three Phase Induction Motors
I.S.655	Metal Air Ducts
I.S.732	Code of Practice for Electrical Wiring and fittings for Buildings.
I.S.778	Gun Metal Gate, Globe and Check Valves for general purposes.
I.S.900	Code of Practice for Installation and Maintenance of Induction Motors.
I.S.996	Single Phase small AC and Universal Motors.
I.S.1239	Mild Steel Tubes, G.I. Pipes, Tubular and other wrought steel fittings.
I.S.1248	Direct Acting Electrical Indicating Instruments.
I.S.1520	Horizontal Centrifugal Pumps for clear, cold and fresh water.
I.S.1554	PVC Insulated (heavy duty) Electrical Cables
	(Part-I) for working voltages upto and including 110 volts.
I.S.2372	Timber for cooling towers.
I.S.2516	AC Circuit Breakers.
I.S.2592	Recommendation for Methods of Measurements of Fluid flow by
	means of Orifice Plates and Nozzles.
I.S.1822	Motor Starters of Voltage not exceeding 1000 volts.
I.S.2208	HRC Cartridge Fuse – Links upto 650 volts.
I.S.3589	Electrically welded steel pipes for water, gas and sewage.
I.S.3624	Bourden Tube Pressure and Vacuum Gauges.
I S 4047	Heavy Duty air break switches and composite units of air break
1.5. 10 17	switches and fuses for voltage not exceeding 1000 volts.
LS 6392	Steel Pipe Flanges.
	Code of Practice for Selection of Standard Worm and Helical Gear
	Boxes.
I.S.8148	Specification for packaged air conditioning.
CPWD	General Specifications for Heating, Ventilation & Air conditioning (HVAC)-2004

IMPORTANT NOTE

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

LIST OF SAFETY STANDARDS

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

LIST OF APPROVED MAKES- BSNL ELECTRICAL WING

S. No.	Item	Makes
1	Engine	Ashok Leyland /Cummins/ Cater pillar / KOEL/ Volvo Penta / Mahindra & Mahindra (up to 40 KVA) /Escorts (up to 30 KVA)/ Eicher (up to 20 KVA)
2	Alternator(Brushless)	Crompton Greaves (AL. series) / KEC / Leroy Somer / Stamford/Jyoti Ltd
3	Battery (Lead Acid / Mntc. Free)	Amara Raja / AMCO / Farukawa / Hitachi / Exide/ Prestolite / Standard
4	HV Switchgear (Vacuum Circuit Breaker/SF6)	Biecco Lawrie / Crompton / Kirloskar / MEI / Jyoti Ltd
5	Transformer (Oil filled / Dry type)	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/Automatic Electric Gear(AEG)/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 / Havelis / H-H Elcon
11	Intelligent APFC Relay	L&T/EPCOS(Siemens)/ Schneider Electric / Neptune Ducati/Syntron/ABB
12	Bus Bar Trunking/ Sandwiched Bus Duct	Moeller/L&T/Schneider Electric/ABB/Legrand/Zeta
13	Power Capacitors (MPP/APP)	L&T/EPCOS(Siemens)/ABB/Crompton/ Schneider Electric/Neptune Ducati
14	Digital/ KWHr meter	Schneider Electric/ AE/ Digitron / IMP/ Meco / Rishabh / Universal/HPL/L&T/ABB
15	Cold shrink HT/LT Cable Joint	Denson / 3M(M-Seal)/ Raychem
16	Rubber Matting	ISI mark
17	MCB/ Isolator /ELCB/RCCB/ Distribution Board	Crompton / Havells / Indokopp / MDS Legrand/ L&T / Schneider Electric/ Siemens / Standard/ C&S/ABB/HPL
18	MS/ PVC Conduit	ISI mark
19	Cable Tray	MEM/Bharti/Ratan/Slotco/Profab
20	HT/LT Cables	ISI mark
21	PVC insulated copper conductor wire	ISI mark

Centrifugal Pump	Amrut / BE / Beacon / Batliboi / Crompton / Jyoti / Kirloskar / KSB / Mather & platt / WASP/Grundfos
Submersible Pump	Crompton/Amrut / BE / Calama / Kirloskar / KSB
Motors	ABB/ Bharat Bijlee / Crompton Greaves / Schneider Electric / HBB / KEC / Siemens/Jyoti Ltd
Fresh Air Fans	GE / Khaitan/Almonard/Crompton
Starter	ABB / BCH / Schneider Electric / L&T / Siemens /
Single Phase Preventer	L&T / Minilec / Siemens / Zerotrip
GI/MS Pipe	ATC / ATL / BST / GSI / ITC / ITS / IIA / JST / Jindal /TTA / Tata/Zenith
Foot Valve	ISI mark
Gate Valve	Advance/Audco/Johnson Controls/Zoloto/Annapurna / Fountain / Kirloskar / Leader / Sant / Trishul
Compressors	Carrier/Emerson copeland/York/Danfoss (for chillers only)
Resin Bonded Glass wool	Fibre Glass / Pilkingston / UP Twiga
Expanded Polystyrene	BASF(India) Ltd.
Gauge	Feibig / H.Guru / Pricol
Controls	FLICA / Honeywell / Indfoss / Penn-Danfoss / Ranco / Ranutrol / Sporland
Fine Filters	Anfiltra Effluent / ARW / Athlete/ Airtake/ Dyna / Kirsloskar/ Puromatic/ Purafill/ Purolator / Tenacity
GI Sheet	HSU Jindal / National / Nippon Denro / Sail / Tata
Heat Detector	Appollo / Chemtron/ Edward / Fenwal/ Hochiki / Nitton /System Sensor/ Wormald/Honeywell Essar/Notifier
Ionization Detector	Appollo / Cerebrus / Edward/ /Fenwal / Hochiki / Nitton / System Sensor / Wormald
Photo Electric Smoke Detector	Appollo / Cerebrus / Edward / Fenwal/ Hochiki / Nitton / Wormald
Fire Panel (Microprocessor based)	Agni Instruments / Agni Devices/ Aruna Agencies/ Carmel Sensor / Ravel Elect./Honeywell Essar/Notifier/Navin Systems
-	
Sprinkler/ Hose Reel & Hose Pipe	ISI mark
	ISI mark ISI mark
	Submersible Pump Motors Fresh Air Fans Starter Single Phase Preventer GI/MS Pipe Foot Valve Gate Valve Compressors Resin Bonded Glass wool Expanded Polystyrene Gauge Controls Fine Filters GI Sheet Heat Detector Ionization Detector Photo Electric Smoke Detector Fire Panel (Microprocessor

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

General Rules & Directions: Officer inviting tender: Sub Divisional Engineer (E) ESD-III, Chennai Definitions:

2(v) Engineer-in-Charge
 2(vi) Accepting Authority
 Sub Divisional Engineer (E), ESD-III, Chennai
 Sub Divisional Engineer (E), ESD-III, Chennai

2(x) Percentage on cost of materials

and labour to cover all 10%(Ten)

Overheads and profits

CLAUSE 5

Time allowed for execution ---- 15days

Authority to give fair and reasonable extension of time for completion of work: EE (E), ED-

I, Chennai

Competent Authority for deciding reduced rates: EE (E) ED-I, Chennai

Clause 25

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

BSNL EW-8

Bharat Sanchar Nigam Limited Electrical Wing

Electrical Division: ED-I, Chennai Sub Division: ESD-III, 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 up to maximum of percentage mentioned in clause 12.3 of the tender form and those in excess of that limit at rates to be determined in accordance with provisions contained in clause 12.2.
- 6. I/we agree to furnish to BSNL, Deposit at Call receipt/FDR/ Bank guarantee of a Nationalized/ Scheduled Bank for an amount equal to 5% of the contract value in a standard format within two weeks from the date of issue of award letter. I/We agree to keep the performance bank guarantee valid as per the BSNL terms and conditions.
- 7. I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety or interest of BSNL.

ame of work: Providing EI & Fans, Service Connection Panel New Location (SW: Auxiliary works)	I, Earthing, AFD System for shifting of Choolaimedu RSU from existing lo
Signature of Witness (required in the case of bidder's thumb impression is given by the bidder in place of signature) Occupation of Witness:	(Signature of bidder) (Name & Postal address)
	Seal of Bidder
	Date:
	tance of Tender ed in the letters mentioned hereunder) is accepted by me
	SNL for a sum of Rs
Rupees)
he letters referred to below shall form part of thi	is contract Agreement.
1	
1	For & on behalf of BSNL
Dated ignature :	For & on behalf of BSNL
Dated	For & on behalf of BSNL Designation:
Dated	