

Bharat Sanchar Nigam Limited (A Govt. of India Enterprise) ELECTRICAL WING

BSNL ELECTRICAL DIVISION VIJAYAWADA.

TENDER DOCUMENT

FOR THE WORK OF

SITC of 1 No. 21.5 KVA Diesel EA set with sound proof canopy for TE Building at Chodavaram under KRISHNA SSA. . SH: Providing earthing , cabling and other connected electrical works .

NAME OF THE TE	ENDERER :
WITH ADDRESS	:
••••	••••••

Executive Engineer (E) BSNL Electrical Division Vijayawada - 520010.

As per NIT

INDEX

SL.	DETAILS		PAGES	
NO.			TO	
1)	Cover Page	1	1	
2)	Index	2	2	
3)	NIT	3	4	
4)	Declaration (Important instructions to tenderer who have downloaded the tender document from web)	5	5	
5)	Important Note for Contractors	6	12	
6)	Model Form for Bank Guarantee	13	13	
7)	PWD 6	14	17	
8)	Proforma of Schedules	18	21	
9)	List of approved makes	22	23	
10)	Specifications	24	24	
11)	Schedule of Quantities	25	32	
12)	Item Rate tender and conditions of contract (Form CPWD 8) along with amendments. (to be downloaded separately)			

This N.I.T. / agreement contains (Pages 32 only) pages marked as $1\ \text{to}\ 32$

EXECUTIVE ENGINEER (E)
BSNL ELECTRICAL DIVISION,
VIJAYAWADA



BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enterprise)

O/o. The Executive Engineer (E),BSNL Electrical Division, Second Floor, TE. Building, Autonagar, VIJAYAWADA-520007 Tel. No: 0866-2543206, 2543211 Fax No: 0866-2543214.

NOTICE INVITING TENDER 13/2015-16

The Executive Engineer (E), BSNL Electrical Division, Vijayawada invites sealed item rate tenders on behalf of Bharat Sanchar Nigam Limited for the following work from the contractors satisfying the below mentioned eligibility conditions.

Sl. No	Name of Work	Estimated Cost –Rs.	EMD Rs.	Tender Cost Rs.	Time for Completion of Work.
1	SITC of 1 No. 21.5 KVA Diesel EA set with sound proof canopy for TE Building at Chodavaram under KRISHNA SSA SH: Providing earthing , cabling and other connected electrical works .	1,11,525/-	2,231/-	573/- (Non refundable)	03 Months

ELIGIBILITY CRITERIA:-

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

GENERAL CONDITIONS

- a) Valid Chartered Accountant Certificate & Registration certificate with attested copies as applicable along with application on their printed letter heads for purchase of Tenders.
- b) List of works completed of the requisite magnitude along with attested copies of certificate, testimonials of the satisfactory certificate from the department concerned obtained from an officer not below the rank of Executive Engineer. The credentials should be certified by any BSNL Executive, and if it is not certified by a BSNL Executive, then original documents shall be produced at the time of tender opening.
- c) Copy of Permanent Account Number card issued by Income Tax Department.
- d) The Tender shall be submitted in **two sealed covers marked as cover 1**st **and Cover 2**nd. **the** First cover shall contain Earnest Money Deposit in the shape of **Demand Draft / Pay Order** of a Scheduled Bank or Nationalised Bank/State Bank guaranteed by Reserve Bank of India drawn in favour of **Accounts Officer (cash) O/o. GMTD ,BSNL, Vijayawada**, and the second cover should contain the tender document. In case the first cover is not annexed or Earnest Money is not in proper form , the second cover containing tenders shall not be opened at all.
- e) Conditions and tender forms can be had from this office upto 4.00P.M on 06/07/2015 on payment of tender cost (as indicated above non-refundable) by DD in favour of Accounts officer (cash), BSNL O/o. GMTD ,BSNL, Vijayawada.
- f) The tender will be received up to 3.00 P.M. on 07/07/2015 and opened at 3.30 P.M. on the same day.

g) In case holiday is declared on the opening day, the tenders will be opened on the next working day.

Note: Tender Documents can also be downloaded from website www.ap.bsnl.co.in/tenderupload/tenderhpage2.asp

- 1. The firm who quotes on the tender downloaded from the website shall be strictly follow the following procedure.
 - a) The tenderer shall submit the tenders in two sealed covers marked as 1st cover and 2nd cover.

b) The first cover should contain the following:

- i. Earnest Money Deposit (EMD) in the shape of Demand draft/ pay order of a Scheduled Bank or Nationalized Bank / State Bank guaranteed by Reserve Bank of India or Bank Guarantee bond drawn in favour of the **Accounts officer (cash), BSNL O/o. GMTD , Vijayawada** Cost of the tender documents in the shape of DD.
 - ii. The Credentials of tenderer self attested and certified by any BSNL Executive. If not certified by BSNL Executive then original documents shall be produced at the time of opening.

c) Second envelope shall contain duly filled tender document.

The Name of work, Name of tenderer and last date of receipt of tender should be mentioned on each envelope. In the absence of which the tender shall not be considered and unopened tender returned forthwith.

- 2. The first envelope containing tender fee, attested documents proving fulfillment of eligibility criteria and EMD in proper form shall be opened first.
- 3. The second envelope shall not be opened in case:
 - a. Tender fee is not submitted in proper form
 - b. EMD is not in proper form
 - c. Firm fails to fulfill eligibility criteria on the basis of document submitted in the first envelope.
- 4. If any difference/ discrepancies found between downloaded tender form, any hard copy issued from division office, the contents in Draft NIT issued from EE (E)'s office will be final & binding.
- 5. Tenders received by post or courier shall not be accepted.

Executive Engineer (E) BSNL Electrical Division Vijayawada

Dated: 27-06-2015.

Lr .No: 24(1)/EE(E)/BSNL/EDV/2015-16/284

- 1) The Chief Engineer (E), BSNL AP Zone, Hyderabad for kind information.
- 2) The Superintending Engineer (E), BSNL Electrical Circle, Vijayawada for kind information.
- 3) The Executive Engineer (E), BSNL, Electrical Div. VSP/TPT for information
- 4) SDE (E) Electrical Sub Division Vijayawada/Guntur/Eluru/Khammam.
- 5) All Eligible Contractors.
- 6) Sr.TOA/AO/Auditor/Notice Board.

Executive Engineer (E)

DECLARATION

(TO BE GIVEN BY THE TENDERERS WHO HAVE DOWNLOADED THE TENDER DOCUMENT FROM THE WEB) $\,$

It is to certify that

- 1) I / We have submitted the tenders in the proforma as downloaded directly from the website & there is no change in formatting, number of pages etc.
- 2) I/ We have submitted tender documents which are same / identical as available in the website.
- 3) I / We have not made any modification / corrections / additions etc in the tender documents downloaded from web by me / us.
- 4) I / We have checked that no page is missing and all pages as per the index are available & that all pages of tender document submitted by us are clear & legible.
- 5) I/We have signed (with stamp) all the pages of the tender document before submitting the same.
- 6) I/We have sealed the tender documents properly before submitting the same.
- 7) I / We have submitted the cost of tender along with EMD.
- 8) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, BSNL shall have the absolute right to take any action as deemed fit without any prior intimation to me / us.
- 9) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, the tender / work will be cancelled and Earnest Money/ Security Deposit will be forfeited at any stage whenever it is so noticed. The department will not pay any damages to me / us on this account.
- 10) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, I / We may also be debarred for further participation in the tender in the concerned BSNL Electrical Zone & would also render me / us liable to be removed from the approved list of contractors of the Department.

Dated	
	(CONTRACTOR)
	(SIGN WITH SEAL)

"IMPORTANT NOTE FOR CONTRACTORS"

The firm shall read carefully the following conditions and shall quote accordingly confirming all the points in their offer.

1. EARNEST MONEY: -

Firm has option to deposit Earnest Money in the form of CDR / FDR / DD or bank guarantee of a scheduled Bank or Nationalized Bank / State Bank guaranteed by Reserve Bank of India in department's attached format and manner (Annexure-I). If the firm fails to start or withdraws from individual agreement, then as per relevant clause of the agreement, EMD @ 2% of the amount of individual work contract/ agreement shall be forfeited from EMD available with the Rate contract agreement or from any money due to the firm by the department under this contract or on any other account. Validity period of earnest money deposit shall be 30 days beyond the tender validity of 150 days.

2. BID PRICES, TAXES AND DUTIES:-

The bidder shall give the total composite price inclusive of all Central and State's Levies & Taxes i.e. Sales Tax, Purchase Tax, Turnover tax, Service tax, Works contract tax etc or any other taxes or duties like local area development tax on material, labour etc. except octroi / Entry Taxes. Octroi / Entry Taxes will be paid extra, as per actuals, wherever applicable on production of proof of payment / relevant invoices / documents.

The price approved by BSNL for procurement will be inclusive of levies and taxes, Packing, Forwarding, Freight and Insurance etc. except octroi / Entry Taxes.

- (a) The total composite price shall comprise of unit price and all other components of price need to be individually indicated / quoted against the goods / material / service, it proposes to supply under the contract in the following manner:
 - i. The Basic Unit price (Ex-Factory Price) of the goods / services / materials, Excise duty, Sales Tax, Freight, Forwarding, Packing, Service tax, Insurance and any other Levies / Charges already paid or payable by the supplier shall be quoted separately.
 - ii. The liability to pay all taxes, levies etc. shall be of contractor and BSNL will not entertain any claim whatsoever in this respect.
 - (b) (i) The firm shall furnish challans / invoices for Cenvatable Duties and Taxes.
- (ii) Vendors should furnish the correct E.D / Customs tariff head in the price Schedule. If the credit for the Duties and Taxes under CENVAT Credit Rules 2004 is found to be not admissible at any stage

subsequently owing to wrong furnishing of tariff Head, then the vendors will be liable to refund such non-admissible amount, if already paid along with penalty if charged by the concerned authority.

- (iii) In case the Duties & Taxes which are non CENVAT able as per the quotes indicated in the price schedules by the vendors and subsequently at any stage it is found that Credit for Duties & Taxes is admissible as per CENVAT credit rules, 2004, then the venders will be liable to refund the amount equivalent to such Duties & Taxes if already paid to them. However the purchaser may allow the supplier to submit necessary documents in this regard which may enable the purchaser to avail the CENVAT credit provided such credit is still available for the amount so paid as per CENVAT credit rules, 2004.
- (iv) The purchaser reserves the right to ask the bidders to submit documentary proof confirming the correct Tariff Head from the Excise Duty / Customs authority where the tariff head furnished against the particular tendered item by different bidders differs from each other or the same is found apparently not furnished in accordance with excise duty / customs tariff notification.
- (v) If the supplier fails to furnish necessary supporting documents i.e excise / custom invoices etc. in respect of the duties / taxes which are Cenvatable, the amount pertaining to such duties / taxes will be deducted from the payment due to the firm.
- (vi) Invoice should clearly indicate breakup details of composite price i.e. basic unit price (Ex-Factory price) of the goods / services / materials, Excise duty, Sales Tax, any other duties and taxes, Freight / Packing, Forwarding charges, Service tax etc.
- (vii) In case of any statutory variation in regard to Cenvatable taxes & duties, within the stipulated date of completion of individual agreement, the same shall be paid or recovered as per the actual against documentary proof. However, beyond this period department will take advantage of any reduction in Cenvatable taxes & duties but will not pay extra on account of increase.

Form 'C' and a certificate stating that the tendered item are meant for the use of BSNL shall be issued by BSNL on request of the contractor, which can be collected from concerned Executive Engineer (E).

3. EVALUATION OF BIDS

The evaluation and comparison of responsive bids shall be done on the basis of net cost to BSNL on the prices of Supply and I.T.C items offered inclusive of Duties and Taxes (but excluding CENVAT-able Duties& Taxes) Sales Taxes, Packing, Forwarding, Freight and Insurance charges etc as indicated in col. No. 18 of the price schedule in the bid document. The Octroi / Entry Taxes are not to be included in the composite price and hence the same will not be considered for the purpose of evaluation and comparison of responsive bids. However, Octroi /

Entry Taxes will be paid extra, as per actual, wherever applicable, on production of proof of payment / relevant invoices / documents.

4. INCREASE/DECREASE OF TENDER QUANTITY

BSNL will have the right to increase / decrease up to 25% of the quantity 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. In exceptional and unavoidable cases BSNL can increase the quantity of goods and services beyond 25% of the tendered quantity with out any change in tendered and accepted unit price and also other terms and conditions as applicable at the time of award of contract.

5. OPERATION OF AGREEMENT

Agreement shall be framed by E.E.(E) concerned with the successful tenderer .

6. VARIATION IN EXCISE DUTY:

In case of any statutory variation in regard to excise duty, within the stipulated date of completion of individual agreement, the same shall be paid or recovered as per the actual against documentary proof. However, beyond this period department will take advantage of any duty reduction but will not pay extra on account of duty increase. (*Point no. 15B under general rules & conditions of EW 8 shall be governed by above para i,e no. 6*).

7. a) Tendered rates are inclusive of taxes and levies payable under the respective states.

However, pursuant to the Constitution (Forty Sixth amendment) Act 1982,if any further tax or levy is imposed by statute after the date of receipt of tenders and the contractor(s) thereupon necessarily and properly pays taxes or levies the contractor(s) shall be reimbursed the amount so paid provided such payment if any is not in the opinion of S.E (whose decision shall be final and binding) attributable to delay in execution of work within the control of the contractor(s).

- (b) The contractor(s) shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of Government and shall furnish such other information's /documents as the Engineer-in-Charge may require.
- (c) The contractor(s) shall within a period of 30 days of imposition of any further tax or levy pursuant to the Constitution (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.

8. PERFORMANCE BANK GUARANTEE:-

The contractor is required to furnish bank guarantee for an amount equal to 5% of the contract value on the nationalized / scheduled bank in a standard format (Annexure-III) within two weeks from the date of issue of the award letter. The validity period of the performance security in the form of performance bank guarantee shall be

one year from the date of stipulated completion, and in the event the time of completion of the work gets enlarged, the contractor shall get the validity of performance guarantee extended to cover such enlarged time for completion of work.

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 along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work...

9. PAYMENT TERMS:-

No advance payment will be made. The payment to the contractors during progress of work shall be regulated as under Stipulations like "levy of interest on payment if not made in specified time" are not acceptable to the department.

- i. 85% of prorata of the approved price break up of contract value on receipt of equipment at site and after satisfactory physical inspection.
- ii. 10% of prorata of the approved price break up of contract value after successful installation of equipment.
- iii. 5% of the approved contract value after successful commissioning.

Note: 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.

10. PROGRAMME FOR EXECUTION: -

The firm shall supply detailed programme to Engineer-in- Charge for execution of contract with in fifteen days of award of work. The programme shall contain details about submission of drawings and supply of materials. Tentative dates for installation, testing and inspection by electrical inspector shall also be submitted.

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 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 1/2 of the time has elapsed and 3/4th of the work before 3/4th of such time has elapsed.

Flow chart of the procurement process / contract shall be supplied by the contractor and approved by Executive Engineer concerned.

11. 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 sources and safe custody of the material stored at site will be responsibility of the contractor.

12. COORDINATION AT SITE:-

At the site of work more than one agency may be working. Full co-operation shall be extended to other agencies during 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 department engaged in creation as well to normal routine work.

13. TEST CERTIFICATES:

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

- ❖ Manufacturer test certificates for individual items.
- * Routine test certificates for individual items.
- ❖ Department may test each unit at factory with out any extra payment.

14. DATE OF COMPLETION: -

Date of commissioning shall be taken as completion date of the work.

15. COMPLETION DRAWINGS: -

The firm shall supply three sets of drawings / documents immediately on completion of the work as detailed below.

Installation drawing giving complete details of the entire Plan lay out indicating various equipments (in case of fixed installation).

16. GUARANTEE AND DEFECT LIABILITY:-

The guarantee shall be valid for two years after successful commissioning of the work. The contractor shall guarantee that all equipments shall be free from any defect due to the defective material and / or bad workmanship and also the equipments shall work satisfactorily with performance and efficiencies not less than the guaranteed values.

- (a) Any part found defective during this period shall be replaced free of cost by the contractor. The service of the contractor's personnel if required during this period shall be made available free of cost to the department.
- (b) The contractor shall depute his representative with in 36 hours of notification of the defect by the department.
- (c) A joint report shall be prepared by the representative of department and firm regarding nature of defects and remedial action required. Time schedule for such action shall also be finalised.
- (d) In case the contractor fails to depute his representative within 36 hours of notification of the defect or fails to cause remedial measure with in reasonable time as decided during joint inspection, the department may

proceed to do so at the contractor's risk and expenses and with out prejudice to any other right, without any further notice.

17. NOT COVERED UNDER GURANTEE

- Consequential losses and damages.
- Parts subject to normal wear and tear such as electrical contacts.
- Failure of parts due to corrossive atmosphere.

18. TESTING AT SITE: -

The firm shall carry out following tests at site and submit record to the Engineer-In-charge.

- (a) Megger test between phases, neutral and earth.
- (b) Earth resistance test at all earth points.
- (c) Relay test and their setting.
- (d) Functional test of all switch gears and circuit breakers.

19. SPECIAL CONDITION: -

Compensation to be levied in cases of use of duplicate/spurious material.

Department reserves the right to get inspected the LT/MV panel and any other components by the manufacturer / their authorised representative, whose report as regards to the genuineness of component shall be final and binding. In case any component upon such inspection is found to be duplicate/spurious, double the cost of such component based on price list (without any discount whatsoever) effective on date of aforesaid inspection shall be recoverable.

In case the contractor agrees to replace the components so found spurious/duplicate at his cost within 15 days of the said report, the penalty of RS. 1,000/- per component found spurious/duplicate shall be levied against the contractor.

Besides the above the Department reserves the right to take disciplinary action against the Contractor.

Decision of S.E in such case shall be final and shall be out of purview of clause-25 of arbitration ".

THE FIRM SHOULD NOTE THAT THE OFFERS WITH CONDITIONS INCLUDING THAT WITH CONDITIONAL REBATES WILL BE SUMMARILY REJECTED.

20. The contractor shall ensure fulfillment/compliance of the provisions of EPF & Misc. Provisions Act 1952 & Employees Provident Fund Scheme 1952 in respect of labourers / employees engaged by them for performing the works of BSNL.

- 21. Each claim bill of the contractor must accompany the (i) List showing the details of labourers / employees engaged (ii) duration of their engagement (iii) the amount of wages paid to such labourers/employees for the duration in question (iv) amount of EPF contributions (both employer's and employee's contribution) for the duration of engagement in question, paid to the EPF authorities (v) copies of authenticated documents of payments of such contribution to EPF authorities and (vi) a declaration from the contractor regarding compliance of the conditions of EPF Act, 1952.
- 22. Participation of near relatives of the BSNL Employees in the Tender / Execution of works in BSNL units The near relatives of any BSNL Employee either directly recruited or on deputation are prohibited from participation in tenders and execution of works in the different units of BSNL.

The Contractor shall not be permitted to tender for works in telecom circle in which his near relative (s) (directly recruited or on deputation in BSNL) is/are posted in any capacity either non-executive or executive employee in that Circle. Any breach of this condition by any contractor would be sufficient to debar from enlistment.

Note:- The near relatives for this purpose are defined as (a) Members of a Hindu Undivided Family, (b) they are husband and wife, (c) the one is related to the other in the manner as father, mother, son(s) wife (daughter-in-law), daughter(s) and, daughter's husband (son-in-law), brother(s) and brother's wife, sister(s) and sister's husband (brother-in-law).

	CERTIFICATE	
<u>I</u>	S/o Sh.	Resident of
	hereby certify that none of m	ny relative(s) as defined in the tender
document is/are emplo	yed in BSNL units as per details given in te	ender document. In case at any stage, it
	nation given by me is false/incorrect, BSNL ithout any prior intimation to me.	shall have to absolute right to take any
Dated:	Signature(s)	
	Company Name & Sea	al
	Type of Company	

23. TENDERS SHOULD BE SUBMITTED IN SEALED CONDITION AND THE TENDERER SHOULD SIGN ALL THE PAGES OF THE TENDER DOCUMENTS.

MODEL FORM OF BANK GUARANTEE

BANK GUARANTEE BOND FOR EMD FOR AIR CONDITIONING, DIESEL ENGINE ALTERNATOR, LIFTS AND SUB STATION WORKS WHEREVER THE AMOUNT OF EMD IS MORE THAN Rs. 20,000/-.

Whereas (here submitted its Tender dated (Name of work) these presents that we our registered office at (*) in the sum of (the sum of (Name of work) (the sum of (Name of	einafter called "The contractor(s) ") has
For(Name of work)these presents that we	of KNOW ALL MEN by
our registered office at ") in the sum of f of the said Government, the Bank binds itself, its succ	ioi which payment will and truly to be made
The conditions of the obligation are:	
1. If the Contractor(s) withdraws its Tender during the Tender Form or	e period of Tender validity specified on the
2. If the Contractor(s) having been notified of the acceptance the period of tender validity.a. Fails or refuses to execute the contract	ance of its Tender by the Government during
 Fails or refuses to furnish security deposit in accord documents 	ance with the conditions of tender
We undertake to pay to the government up to the written demand, without the government having to demand, the government will note that the amo occurrence of one or both of the conditions, specifically.	o substantiate its demand. Provided that in its ount claimed by it due to its owing to the
This guarantee will remain in force as specified thirty (30) days after the period of the tender v should reach the bank not later than the specified of	validity, and any demand in respect thereof
	Signature of the Bank
me of Witness:	Signature of the Witness.

Name

Address of the Witness:

13

BHARAT SANCHAR NIGAM LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

NOTICE INVITING TENDERS

Note: - (i) For corrections on the Form C.P.W.D 6, kindly refer English version only.

(ii) In case of ambiguity in Hindi and English version, English version will prevail.

WORK DETAILS:

a)	As per NIT		
c)	<u>DIVISION</u> :- BSNL ELECTRICAL DIVISION VIJAYAWADA.		
d)	ESTIMATED COST: - As per NIT		
e)	EMD: - As per NIT		
f)	Time: As per NIT		
g)	<u>SD</u> : - 5 % of the tendered value of the work.		
h)	PERFORMANCE GUARANTEE: 5 % of the tendered value of the work .		
	COST OF TENDER DOCUMENT: - As per NIT (Non-refundable).		

- 1.1 The work is estimated to cost $\underline{\text{As per NIT}}$ This estimate, however, is given merely as a rough guide.
- 1.2 Tenders will be issued to eligible contractors satisfying under mentioned eligibility condition.

Eligibility Criteria: - As per NIT

A) Financial Norms:

As per BSNL C.O. Norms as per NIT

B) Physical Norms:

- 1a). Valid "Charted Accountant certificate ", Valid Electrical License and Registration Certificate with attested copies as applicable along with application on their printed letter heads for purchase of Tender.
- 1b). List of works completed of the requisite magnitude along with attested copies of certificate, testimonials of their satisfactory completion from the Department concerned obtained from an Officer not below the rank of Executive Engineer.

- 2.Agreement shall be drawn with the successful tenderer on prescribed Form No. CPWD 8, which is available as Government of India Publication and for down load along with this tender document. Tenderer 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 As per NIT as indicated in the tender documents.
- 5 The site for the work shall be made available.
- Receipt of applications for issue of forms will be stopped by 1600 Hrs. two days before the date fixed for opening of tenders. Issue of tender forms will be stopped two days before the date fixed for opening of tenders.
- 7 Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of works to be done and the set of terms and conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of Executive Engineer (Electrical), BSNL Electrical Division, SIEMEN'S EXCHANGE AUTO NAGAR, VIJAYAWADA 520007 between hours of 11.00 AM and 04.00 P.M. everyday except on Sundays and Public Holidays. Tender documents, shall be down loaded from web site only.
- (B) The tenderer must produce a Chartered Accountants Certificate showing details of Income-tax returns duly filed and no dues are outstanding towards Income-tax, certificate before tender papers can be sold to him.
- Tenders, which should always be placed in sealed envelope, with the name of work and due date written on the envelopes, will be received by Executive Engineer (Electrical), BSNL Electrical Division, SIEMEN'S EXCHANGE AUTO NAGAR, VIJAYAWADA 520007, up to 03.00 P.M. On As per NIT and will be opened by him or his authorized representative in his office on the same day at 03.30 P.M.
- 8.1 The tender shall be accompanied by earnest money (unless exempted), of Rs As per NIT in Receipt Treasury Challan/ Deposit at Call receipt of a Scheduled Bank/Fixed Deposit Receipt of a Scheduled Bank/Demand Draft of a Scheduled Bank/ Bank guarantee in the Department's attached format and manner issued in favour of the Accounts officer (cash), BSNL O/o GMTD, Vijayawada The Bank guarantee shall be accepted only if it is valid for 120 days or more after the date of opening of tenders and is pledged in favour of the Accounts officer (cash), BSNL O/o GMTD, Vijayawada
 - A contractor exempted from depositing earnest money in individual cases, shall enclose with the tender an attested copy of the letter exempting him from depositing earnest money, in a manner described for earnest money in condition No. 8.2 below, and shall produce the original when called upon to do so.
 - 8.2 The tender and the earnest money shall be placed in separate sealed envelopes each marked 'Tender' and 'Earnest Money' respectively. Both the envelopes shall be submitted together in another sealed envelope. The envelope marked "Tender" of only those tenderers shall be opened; whose earnest money placed in the other envelope is found to be in order.
- 9 The description of the work is as follows: -

As per NIT

Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the above mentioned officer.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil. (so far as is practicable), 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 tenderer shall be deemed to have full knowledge of the site whether he

inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools and 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 tenderer 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 Government and local conditions and other factors having a bearing on the execution, of the work.

The competent authority on behalf of the BSNL 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 tenderer shall be summarily rejected.

The Public enterprises that avail benefits of the purchase preference should be subjected to adequate penalties for cost overruns etc.

- 11 Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 12 The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
- 13 The contractor shall not be permitted to tender for works in the Telecommunication/Postal (responsible for award and execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and. Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the BSNL or in the Ministry of Communication. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
- No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of two years after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.
- 15. The tender for the works shall remain open for acceptance for a period of ninety days from the date of opening of tenders. If any tenderer withdraws his tender before the said period or makes any notifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid.
- 16. Rates quoted by the contractor in the tender both in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount.
- 17. All rates and discounts shall be quoted on the tender form. The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and words. In case of figures, the word 'Rs.' Should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs.2.15 P' and in case of words, the word, 'Rupees' should precede and the word 'Paise' should be written at the end. Unless the rate is in whole rupees and followed by the word

- 'only' it should invariably be upto two decimal places. While quoting the rate in schedule of quantities, the word' 'only' should be written closely following the amount and it should not be written in the next line.
- 18. Sales-tax, purchase tax, turnover tax, service tax, works contract tax or any other tax or duty like octroi, local area development tax on materials/labour etc. in respect of this contract shall be payable by the contractor and BSNL will not entertain any claim whatsoever in respect of the same.
- 19. However, pursuant to the constitution (forty-sixth amendment) act, 1982, if any further tax or levy is imposed by statute, after the date of receipt of tenders, and the contractors thereupon 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) attributable to delay in execution of work within the control of contractor.
- 20. BSNL shall deduct work contract tax, service tax, income tax and other statutory deductions from payments due to the firm as per rules of the state/Central Government. The Accounts Officer of the concerned Division shall issue certificates for such deductions to the firm.
- 21. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/contractor, 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 the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
 - b) Standard C.P.W.D. Form 8

PROFORMA OF SCHEDULES

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

SCHEDULE 'A'

Schedule of quantities: Appended from page 29 to page 31

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

Sr. No.	Description of item	Quantity	Rates in figures and words at which the material will be charged to the contractor	Place of Issue
1	2	3	4	5
NIL				

SCHEDULE 'C'

Tools and plants to be hired to the contractor

Sr. No.	Description of item	Hire charges per day	Place of Issue
1	2	3	4
NIL			

SCHEDULE 'D'

Extra schedule for specific requirements/ document for the work, if any.

- I. Important Note for Contractors: Appended from page 12 to page 15.
- II.Copy of Memo no. 5-1-12-EW/94 dt. 26/9/1996, Annexure I (model form of Bank Guarantee): Appended from page 16 to page 17.
- III. Amendment in CPWD 8: Appended on page 20.

SCHEDULE 'E'

Schedule of component of Cement, Steel, other materials, Labour etc. for price escalation.

NIL **CLAUSE 10 CC** Component of Cement Хc expressed as per cent of total Component of Steel expressed Xs as per cent of total value of work % NA Component of civil(except Xm cement and steel) / Electrical construction Materials expressed as per cent of total value of work Component of Labour expressed % Υ as per cent of total value of work

SCHEDULE 'F'	
Reference to General Conditions of contract.	
Name of work:	As per NIT
ramo or work.	The positivity
Estimated cost of work:	As per NIT
i) Earnest money:	As per NIT
ii) Performance Guarantee :	5% of tendered value of work.
iii) Security Deposit :	5 % of the tendered value of the work.
GENERAL RULES and DIRECTIONS:	Officer inviting tender EE (E), BSNL Electrical Division, VIJAYAWADA. Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with clauses 12.2 and 12.3.
Definitions:	See below
2(v) Engineer-in-Charge	Executive Engineer (E), BSNL Electrical Division, VIJAYAWADA.
2(viii) Accepting Authority	Executive Engineer (E), BSNL Electrical Division, VIJAYAWADA.
2(x) Percentage on cost of materials and labour to cover all overheads and profits.	10%
2(xi) Standard Schedule of Rates	NA
2(xii) Department	BSNL
9(ii) Standard CPWD contract Form	CPWD Form 8 as modified and corrected up to date.
Clause 1 i)Time allowed for submission of Performance Guarantee from the date of	2 weeks
issue of letter of acceptance, in days ii) Maximum allowable extension beyond the period provided in I) above in days	
Clause 2 Authority for fixing compensation under Clause 2.	SE (E)
Clause 2A	
Whether Clause 2A shall be applicable.	No
Clause 5 Number of days from the date of issue of letter of acceptance for reckoning date of start	10 days
Milestone(s) as per table given below :-	

	Table of Mile Stone(s)							
SI. No.	Description of Milestone (Physical)	day	ne allowed in s (from date start)		b be with-held in case of non ent of milestone			
1				NA				
2				OR				
SI. No.	Financial Progress		Time allowed date of start)		Amount to be with-held in case of non achievement of milestone			
1	1/8 th (of whole wor	k)	1/8 th (of whole	e work)				
2	3/8 th (of whole wor	rk)	1/2 (of whole	work)	NA			
3	3/4 th (of whole wor	rk)	3/4 th (of whole	e work)				
4 Time a c	Full	-4	Full		A a man NHT			
	allowed for execution ity to give fair and re		work. nable extension	of time	As per NIT			
	npletion of work.				EE (E)/SE(E)			
Clause 7 Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.		if any,	As Applicable.					
Clause	e 10CC to be applica of completion excee n.			•	NA			
Clause	e 11				Specifications as appended with			
Specifi	cations to be followe	d fo	r execution of w	ork	Schedule of work.			
Clause 12 12. 2 & 12.3 Deviation Limit beyond which clauses 12.2 and 12.3 shall apply			25%					
12.5 D	eviation Limit beyon	d wh	ich	_	NA			
clause	s 12.2 and 12.3 shal	I app	bly for foundatio	n work	Executive Engineer (E) DONI Electrical			
	etent Authority for de	cidir	ng reduced rates	S.	Executive Engineer (E), BSNL Electrical Division, VIJAYAWADA.			
Clause 36 (i) Minimum Qualifications and experience required for Principal Technical Representative.			-	ed for				

a) For works with estimated cost put to tender more than i) Rs. 10 lakhs for Civil work ii) Rs. 5 Lakhs for Elect/ Mech. Works	Graduate or retired AE possessing at-least recognised diploma
b) For works with estimated cost put to tender more than i) Rs. 5 lakhs but less than Rs. 10 lakhs for Civil works ii) Rs. 1 lakh but less than Rs.5 Lakhs for Elect/ Mech. Works	Recognised diploma holder
c) Discipline to which the Principal Technical Representative should belong.	Elect./ Mech
d) Minimum experience of works	Three (3) years.
e) Recovery to be effected from the contractor in the event of not fulfilling provision of clause 36(1)	Rs.4,000/- p.m. for Graduate Rs.2,000/- p.m. for Diploma holder

Clause 42

i) (a) Schedule/ statement for determining NA theoretical quantity of cement and bitumen on the basis of Delhi Schedule of Rates _____ printed by C.P.W.D.

ii) Variations permissible on theoretical quantities

a) Cement for works with estimated cost put to tender not more than Rs.5 lakhs. for works with estimated cost put to

tender more than Rs.5 lakhs. b) Bitumen All works.

c) Steel Reinforcement and structural steel sections for each diameter, section and category.

d) All other materials

3% ±

2% ±

 $2.5\% \pm \text{only and nil}$ on minus side

NA

2% ±

NIL

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sr. No.	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor Rate in schedule 'B' plus 10% in case materials issued by Department			
		Excess beyond permissible variation	Less use beyond permissible variation		
1	Cement				
2	Steel reinforcement				
3	Structural Sections		NIL		
4	Bitumen issued free				
5	Bitumen issued at stipulated fixed price				

LIST OF APPROVED MAKES- BSNL ELECTRICAL WING

S.No	Item	Makes
1	Engine	Ashok Leyland /Cummins/ Cater pillar /
	3	KOEL/ Volvo Penta / Mahindra &Mahindra (up to 40 KVA)
		/Escorts (up to30 KVA)/ Eicher (up to 20 KVA)
2	Alternator	Crompton Greaves (AL. series) / KEC /
	(Brushless)	Leroy Somer / Stamford/Jyoti Ltd
3	Battery (Lead Acid	Amara Raja / AMCO / Farukawa / Hitachi/ Exide/ Prestolite /
	/Mntc. Free)	Standard
4	HV Switchgear	Biecco Lawrie / Crompton / Kirloskar /MEI / Jyoti Ltd
	(Vacuum Circuit	
	Breaker/SF6)	
5	Transformer (Oil	
-	filled/ Dry type)	
	a) Above 400 KVA	ABB / Schneider Electric /Andrew Yule /Bharat Bijlee /
-	1) 11 1 100 101	Crompton / EMCO /Kirloskar/ Siemens
	b) Up to 400 KVA	In addition to above makes, Uttam/Automatic Electric
	Air Cirrerit Desertion	Gear(AEG)/Patson/Rajasthan Transformer and Switchgear
6 7	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
8	MCCB(Ics=Icu)	L&T/ Schneider Electric / Siemens
0	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	L&T/EPCOS(Siemens)/ Schneider Electric/ Neptune
11	Relay	Ducati/Syntron/ABB
12	Bus Bar Trunking/	Moeller/L&T/Schneider Electric/ABB/Legrand/Zeta
	Sandwiched Bus	
	Duct	
13	Power Capacitors	L&T/EPCOS(Siemens)/ABB/Crompton/Schneider
	(MPP/APP)	Electric/Neptune Ducati
14	Digital/ KWHr meter	Schneider Electric/ AE/ Digitron / IMP/Meco / Rishabh
		/Universal/HPL/L&T/ABB
15	Cold shrink HT/LT	Denson / 3M(M-Seal)/ Raychem
1.0	Cable Joint	707
16	Rubber Matting	ISI mark
17	MCB/ Isolator	Crompton / Havells / Indokopp / MDS Legrand/ L&T /
	/ELCB/RCCB/	Schneider Electric/Siemens / Standard/ C&S/ ABB/ HPL
18	Distribution Board MS/ PVC Conduit	ISI mark
19	Cable Tray	MEM/Bharti/Ratan/Slotco/Profab
20	HT/LT Cables	ISI mark
21	PVC insulated	ISI mark
	copper conductor	151 HIGIN
	wire	
22	Centrifugal Pump	Amrut / BE / Beacon / Batliboi /Crompton / Jyoti / Kirloskar /
	25 nagan ramp	KSB /Mather & platt / WASP/Grundfos
23	Submersible Pump	Crompton/Amrut / BE / Calama /Kirloskar / KSB
24	Motors	ABB/ Bharat Bijlee / Crompton Greaves /Schneider Electric /
	1100013	ADD Dilatat Diffee Crompton Greaves / Schneider Electric /
	140(013	HBB / KEC / Siemens/Jyoti Ltd

26	Starter	ABB / BCH / Schneider Electric / L&T /
		Siemens /
27	Single Phase	L&T / Minilec / Siemens / Zerotrip
	Preventer	
28	GI/MS Pipe	ATC / ATL / BST / GSI / ITC / ITS / IIA /JST / Jindal /TTA /
		Tata/Zenith
29	Foot Valve	ISI mark
30	Gate Valve	Advance/Audco/Johnson Controls/Zoloto/Annapurna /
		Fountain /Kirloskar / Leader / Sant / Trishul
31	Compressors	Carrier/Emerson copeland/York/Danfoss
	·	(for chillers only)
32	Resin Bonded Glass	Fibre Glass / Pilkingston / UP Twiga
	wool	, , , ,
33	Expanded	BASF(India) Ltd.
	Polystyrene	, , , , ,
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	Appollo / Cerebrus / Edward / Fenwal/Hochiki / Nitton /
	Smoke Detector	Wormald
41	Fire Panel	Agni Instruments / Agni Devices/ Aruna Agencies/ Carmel
	(Microprocessor	Sensor / Ravel Elect./Honeywell Essar/Notifier/Navin Systems
	based)	,
42	Sprinkler/ Hose Reel	ISI mark
	& ´	
	Hose Pipe	
43	Fire Extinguisher	ISI mark
44	Lift	OTIS, Kone, Mitsubishi , Schindler, Johnson

NOTE:

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

SPECIFICATION FOR THE WORK

- 1. The work shall be carried out as per current CPWD specifications for Electrical works as amended from time to time and Indian Electricity Rules as amended up to date.
- 2. The work shall be supervised by a qualified technical staff.
- 3. Layout of the work will be given by the Engineer in charge or his duty authorized representative at the site of work.
- 4. Earthing sets work shall be carried out in the presence of the Engineer-in-charge or his authorized representative.
- 5. samples of all the materials, fittings accessories switch gears etc ., shall be approved from the Engineer-in-charge before using the same on the work. Rejected material shall be removed immediately form the site of work.
- 6. The contractor will have to carry out the following test at his cost and intimate test results before final bills are paid. Nothing extra will be paid to him on this account.
 - 1) earth test
- 7. Any damages done to the building by the contractor during the executing of the work shall have to be made good at his cost and risk. If it is not done within a reasonable time determined by the Executive Engineer (E) then the same will be got done at his cost departmentally after giving notice to him.
- 8. The contractors will have to make arrangements to take the materials to site of work at his own cost and risk. Octroi if paid by the contractor for the materials supplied by the Department can be claimed by his against the original vouchers.
- 9. The contractor shall submit the completion plan as required vide general specifications for electrical works. Part-I (internal) & part-II (external) as applicable within 30days the completion of the work. In case of contractor fails to submit the completion plan as aforesaid he shall be liable to pay sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs. 2500/- as may be fixed by the S.E. (E).

Executive Engineer(E)
BSNL Electrical Division
VIJAYAWADA

SCHEDULE OF QUANTITIES

Name of work: SITC of 1 No. 21.5 KVA Diesel EA set with sound proof canopy for TE Building at Chodavaram under KRISHNA SSA. . SH: Providing earthing, cabling and other connected electrical works .

S.No	Description of item	Quantity	Rate in Rs	Unit	Amount in Rs
SH-I:	Earthing Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. (but without charcoal/ coke and salt) as required.	4 Sets		Set	l
2	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and refilling etc. as required.	10 Mtr		Mtr	
3	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required	30 Mtr		Mtr	
4	Providing extension of neutral earth connection with 16sqmm. Flexible copper wire of approximately 1Mtr long from GI earth strip to Alternator terminals including lugs on both sides etc., complete as required.	1 Job		Job	
5	Providing and fixing 8 SWG dia G.I. wire on surface or in recess for loop earthing as required.	40 Mtr		Mtr	
SH-II	Cabling				
: 1 a)	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. Upto 35 sq. mm	10 Mtr		Mtr	
2	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
a)	Upto 35 sq. mm	10 Mtr		Mtr	

3 a)	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering. Upto 35 sq. mm	5	Mtr	Mtr
4	Laying of one number additional PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.			
a)	Upto 35 sq. mm	5	Mtr	Mtr
5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.			
a)	Upto 35 sq. mm	3	Mtr	Mtr
6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required			
a)	Upto 35 sq. mm	2	Mtr	Mtr
7 a)	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	10	Mtr	Mtr
		10	1410	14101
8	Supplying and making indoor end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.			
a)	2 X 6 sq. mm (19mm)	2	sets	set
b)	3½ X 25 sq. mm (28mm)	2	sets	set
c)	3½ X 35 sq. mm (32mm)	2	sets	set
9	Supplying and laying of 40 mm dia. B-class GI pipe on wall / soil for mechanical protection of under ground cable including providing necessary bends, couplings, clamps etc., as required.	3	Mtr	Mtr
	ornes, roupings, cramps own, as required.	3	171(1	IVIU

SH- Over head service connection cabling:

III:

1

Supplying & Laying of 4x25 sqmm. Aluminium conductor weather proof over head cable in the following ways including S/F of Aluminium lugs, interconnections, testing etc., as required.

- (i). Supported by 2x10 SWG GI wire & with teak wood cleats
- 15 Mtr Mtr
- (ii). In existing PVC pipe / on suface of pole / wall etc., (with out cleats).
- 10 Mtr Mtr
- Supply & fixing of 50mm dia 2mm thick rigid PVC pipe for mechanical protection of power cable including S/F of clamps, bends, etc., as required.
- 5 Mtr Mtr
- 3 S/F 3 Nos 100 Amps, 415V, porcelain fuse cut outs along with 100A Amp neutral Link with extended bus bar links on either side of fuse cut outs on a teak wooden board I/c fixing the fuse board as per site requirement, inter connections, testing earthing the neutral etc..., as required.
- 1 Job Job

SH-

IV: ITC of LT panel

1

Disconnection of of all incoming and outgoing electrical cables from the existing LT panel and making temporary arrangement/cable junction box for connecting power cables without interruption to services and thereby making main LT panel free to shift to new bldg as required..

- 1 Job Job
- 2 Installation, Testing and commissioning of wall mounting Cubicle type LT power panel on wall including minor civil works, interconnections, loop earthing the panel etc., as reqd.
- 1 Job Job
- 3 S/F of following Electrical accessories in place of faulty accessories in LT panel / capacitor box etc., suitable for 415 V /230 V Ac Supply i/c interconnections, testing etc., as required.

a)	3-position selector switch with , center 'OFF' (Stay Put) (Make : RCP2-BD3 of C&S or equivalent)			
		1	No	Each
b)	LED type indication lamp of Red , Yellow and Green Colours (Stay Put) (Make : RCP2-BVL73/74/75 of C&S or equivalent)	2	Nos	Each
c)	LED type indication lamp of Blue Colour (Stay Put) (Make: RCP2-BVL76 of C&S or equivalent)	1	No	Each
d)	32A Cylindrical type HRC Fuse Links (Make: L&T, Type - HF or equivalent)	6	Nos	Each
4	Supplying & Fixing of Heavy Duty Dry type Power Factor correction capacitor bank suitable for operation on 3 Phase ,440V,50HZ AC supply in the existing capacitor panel / M.S. box i/c interconnections, testing as required.(Make:Epcos (Siemens) / L&T with dielectric: APP/MPP etc or equivalent make)	5	KVAR	KVAR
5	Dismantling of all electrical AC/DC wiring, MCBDB's, Main switch, lights and fans, power cables, stabiliser, starter and stands etc of old Window /SplitAC unit, Power plant LT panel, Fire alarm equipment in the old bldg and shifting the same to new bldg as required	1	Job	Job
6	Arranging fixing of main switch, capacitor box, DC MCB DB, 3Nos.power plug boxes, interconnection cabling etc at new bldg as required.	1	Job	Job
SH-V 1	WIRING FOR LIGHTS & FANS Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)			
a)	4 way (4 + 12), Double door	1	No	each
2	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.			

a).	Single pole	4	Nos	each
b).	Triple pole and neutral	1	Nos	each
3 a).	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps	1	No	each
4	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR 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. FR PVC insulated copper conductor single core cable etc as required.			
a).	Group A	15	Point	Point
5	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required			
a).	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire (For switch boards)	15	Mtr	Mtr
b).	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire (For power plugs)	5	Mtr	Mtr
c).	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire (For power plugs)	5	Mtr	Mtr
d).	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	5	Mts	Mtr
e).	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	3	Mts	Mtr
6	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.			
a).	20 mm	15	Mts	Mtr
b).	25 mm	10	Mts	Mtr
7	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.			

a).	3 x 1.5 sq. mm	15	Mts	Mtr
b).	6 x 1.5 sq. mm	10	Mts	Mtr
8	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	10	Nos	Each
9	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.	3	Nos	Each
10	Supplying and fixing electronic fan regulator on the existing switch board for speed control of ceiling fan i/c interconnections, testing etc., as required.	3	Nos	Each
11	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.			
a).	Upto 450 mm sweep	2	Nos	each
12 a).	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required 4 X 16 sq. mm + 2 X 16 sq. mm earth wire	6	Mtr	Mtr
13	Supplying & crimping with 16 sqmm size Ring terminal / Hole type Copper lugs for 1.1KV grade, PVC insulated, flexible copper conductor cable as required.	24	Nos	Each
SH-VI: 1	I.T.C. of Split AC units: Dismantling of existing Window AC unit and periphery around the AC unit, transportation of window AC unit from old exchange to new exchange - Chodavaram including loading and unloading etc. complete as required.	1	Job	Job

2	Dismantling of the existing split AC unit complete with indoor unit, outdoor unit along with OD stand, refrigerant piping, transportation of split AC unit from old exchange to new exchange - Chodavaram including loading and unloading etc. complete as required.	1 Job	Job
3	Dismantling of the existing split AC unit complete with indoor unit, outdoor unit along with OD stand, refrigerant piping, transportation of split AC unit from TE - Poranki to new exchange - Chodavaram including loading and unloading etc. complete as required.	1 Job	Job
4	Installation, Testing & Commissioning of the 1.5 TR Split type AC unit by interconnecting the indoor unit and outdoor unit with refrigerant line, mounting the outdoor unit on ewxisting stand, indoor unit on the wall/shelter making power supply connections from the power point etc complete as required.	2 Jobs	Job
5	Supplying & fixing of 20mm dia rigid PVC pipe for drain water etc as required.	3 Mtrs	Mtr
6	Supplying & fixing of 65 mm dia rigid PVC pipe for refregirant piping etc. complete as required.	3 Mtrs	Mtr
7	Supplying & fixing of 65 mm dia flexible PVC pipe for refregirant piping etc. complete as required.	1 Mtrs	Mtr
8	Supplying and fixing DP sheet steel enclosure on surface/recess along with 20 amps "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	2 Nos	each
9	Supplying & drawing of 3 core 2.5 sqmm copper conductor cable in the exiting PVC channel/on surface of wall as required(Note :for connections from ID unit to OD unit, existing CCB to ID unit with out any joint)	3 Mtrs	Mtr
SH-	Miscellaneous		
VII : 1	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	2 Nos	Each

2	S/F GI fire buckets, each set comprising of 2 Nos 9 litres capacity & inscription `FIRE` in signal RED colour on each bucket, providing and fixing suitable MS Hooks for hanging the buckets i/c painting etc as required			
		1	set	Set
3	Supplying of First Aid box of Approved make including providing and fixing necessary MS bracket and wooden plank on the wall as required.			
	plank on the wair as required.	1	No	Each
4	P/F shock treatment chart in three languages (viz Hindi, English and Regional Language) suitably framed with Hard board on the back side and with hook for hanging			
	on wall etc. as required	1	No	Each
5	supplying and laying 1/4" thick rubber mat with ISI mark suitable for medium voltage etc., as required.	2	Sq.Mtr	Sq.Mtr
6	Supplying and fixing on wall of 4.5Kgs capacity Co ₂ fire extinguisher complete with hose pipe and horn etc., including initial fitting of charge complete as required (M/S Safex/Firex/Minimax)			
		1	No	Each
7	Providing sign writing of EA set details on the canopy of EA set, earthing details etc., with approved colour			
	enamel painting as required.	1	Job	Job

Total(exclusive of CENVAT-able Service Tax)

Add 14.0% service tax on 40% of above total:

Grand Total (inclusive of CENVAT-able Service Tax)

Contractor Engineer -In -Charge