

BHARAT SANCHAR NIGAM LIMITED

(A Government of India Enterprise)



TENDER DOCUMENT

FOR

THE WORK OF

NIT No.	Name of work
01	Extending DG supply to STR Bldg from E10B bldg at Khammam

BSNL ELECTRICAL SUB DIVISION – KHAMMAM



BHARAT SANCHAR NIGAM LIMITED
(A Government of India Enterprise)
NOTICE INVITING TENDER

N I T No: **05/BSNL/ESD/KHM/2019-20/117**

Dt : **19/02/2020**

The Sub Divisional Engineer (E), BSNL Electrical Sub Division, Gandhi chowk, Khammam invites on behalf of Chairman, Bharat Sanchar Nigam Limited, Sealed item rate tenders for the following works.

SR NO	Name of work	Estimated Cost (Rs)	EMD (Rs)	Tender cost (Non-Refundable)	Time for completion
01	Extending DG supply to STR Bldg from E10B bldg at Khammam	Rs33,630/-	Rs673/-	Rs 177/-	1 Month

From contractors satisfying the following conditions

I. Eligibility Conditions:-

- a) Average Annual turnover during the last 3 years, should be at least 30% of the estimated cost put to tender.

AND

- b) BSNL Enlisted Contractors in Electrical category of respective class as per their tendering limit

II Contractor shall submit and confirm:

1. Valid "Chartered Accountant Certificate" and Registration Certificate with attested copies as applicable along with application on their printed letterheads for purchase of Tenders.
2. The tenderer shall submit the tenders in two sealed covers marked as cover 1st and 2nd. The first cover should contain earnest money deposited 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 the **Accounts officer (cash), BSNL , Khammam**. and the 2nd cover should contain the tender document. In case the first cover is not annexed or earnest money is not in proper form, the 2nd cover containing tenders will not be opened at all.
3. The firm who quotes on the tender downloaded from website shall strictly follow the following procedure:
The tenderer shall submit the tenders in two sealed covers marked as cover 1st and 2nd.
4. The first cover should contain the following
 - a) 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 **AO (cash), BSNL , Khammam**.
 - b) Cost of the tender documents in the shape of DD.
 - c) 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.
- 5) The Second cover should contain duly filled tender document.

The first envelope containing tender fee, attested document proving fulfilment of eligibility criteria containing and EMD in proper form shall be opened first.

- 6). 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 fulfil eligibility criteria on the basis of document submitted in the first envelope.
- 7) If any difference/ discrepancies found between downloaded tender form, any hard copy issued from Sub division office, the contents in Draft NIT issued from SDE(E)'s office will be final & binding.
- 8) Tenders received by post/courier shall not be entertained.

Last date for receipt of applications up to **14.00 Hrs on or before 29-02-2020** on payment of Rs. 177/- (inclusive of all Taxes, Non-refundable) 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 favor of the AO (cash), BSNL, Khammam.

The tender will be received up to **15.00 Hrs on DT: 29-02-2020** and opened at **15.30 Hrs** on the same day. In case holiday is declared on the opening day, the tenders will be opened on the next working day.

Note: Tender Documents can be downloaded from website
[http:// www.telangana.bsnl.co.in/tenders_active.php](http://www.telangana.bsnl.co.in/tenders_active.php)

Sub Divisional Engineer (E)
BSNL Electrical Sub Division, Khammam

Copy to:

- 1) The Executive Engineer (E), BSNL Electrical Division-I, Hyderabad
- 2) The Sub Divisional Engineer (E), BSNL Electrical Sub Division –IV, Hyd / NZB/MBNR
- 3) The Eligible Contractors 4) The AO/SDE (E-P)/SSS/Auditor/Cashier/Notice board/Spare.
- 4) Web site: www.telangana.bsnl.co.in
- 5) Notice Board

Division Office NIT NO: **58/BED-I/HYD/2019-20, Dated: 19/02/2020**

IMPORTANT NOTE FOR THE CONTRACTOR/ FIRM WHO
DOWNLOAD THE TENDER FROM WEB SITE

The contractor/ firm who are down loading the tender form are instructed to go through the following points:-

1. The contractor/firm has to submit an undertaking (duly signed, in the format enclosed with the NIT) that he shall abide by the original standard forms PWD-6 and 8. BSNL forms which can be seen in any nearest Electrical units of BSNL.
2. The contractor/firm shall submit the following in FIRST ENVELOPE: -
 - (A) Application on the firm's printed letter-head
 - (B) Necessary documents for credentials for meeting the eligibility conditions.
 - (C) Non-refundable cost of tender documents (in the shape of demand draft).
 - (D) Earnest money (in the proscribed form and of prescribed amount).
(In case of demand draft, separate demand draft for Cost of tender documents and EMD are to be submitted)
3. After verification of the documents in FIRST ENVELOPE (i.e. credentials, cost of tender documents and earnest money, etc) and on finding them in order, the SECOND ENVELOPE containing the tender documents shall be opened as per instructions contained under NIT.
4. It shall be the responsibility of the firm to clearly list the documents attached to establish their eligibility credentials in the application (on their printed letter head).
5. The credential of tenderer fulfilling eligibility criteria as mentioned above should be enclosed.
6. EMD of non-eligible firms shall be returned in original at the time of opening of tender.
7. The tenderer has to submit the downloaded original computer print out of the documents from the web site. The photocopy shall be not accepted.
8. If during the opening of tender and process of tender finalization, it is detected that the tenderer has submitted tender documents after making any charges/additions/deletions in the tender documents down loaded from the web site, the offer shall be summarily rejected and the EMD deposited by the tenderer shall be forfeited in addition to any action as per the prevalent rules.

Sub Divisional Engineer (E)

INSTRUCTIONS TO CONTRACTORS

- a. 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.
- b. 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.
- c. All communications with the bidders shall be in writing fax / email, shall be covered under this category and considered as adequate means of communication.
- d. If a holiday is declared on the tender opening day, the tenders will be opened on the next working day.
- e. The tender in which rates are to be quoted should be properly bound / stitched and sealed in case of loose, spiral bound, submission of tender the tender shall be liable for rejection. (In case of downloaded tender documents from the internet).
- f. If it is found at any stage of tender scrutiny after submission of the tender that bidder has made any correction / addition / alterations / omissions / in tender documents vis - a - vis tender documents available on the website / original draft NIT in office the bid shall be treated as nonresponsive and shall be summarily rejected and the EMD deposited by the tenderer shall be forfeited in addition to any other action as per prevalent rules.
- g. The tenderer shall submit the original computer printout of the tender document from the internet the photocopy shall not be accepted.
- h. 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.

- i. The competent authority on behalf of BSNL 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.
- j. The contractor shall not be permitted to tender for works in the BSNL Zone (responsible for award and execution of contract) in which is near relative is posted as JAO/ AAO/ AO / Sr.AO / CAO or as an officer in an any capacity between the grades of Chief 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 Department of Telecom or in the Ministry of Communication or BSNL. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this department.
- k. No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India/BSNL is allowed to work as a contractor for a period of two years after his retirement from Government service/BSNL, without the previous permission of the Government of India/BSNL 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/BSNL as aforesaid before submission of the tender or engagement in the contractor's service.
- l. 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 modifications in the terms and conditions of the tender which are not acceptable to the department, 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.
- m. The successful tenderer shall be required to execute an agreement with the Engineer-in-charge in the proforma annexed to the tender document, within fifteen days of issue of letter of acceptance by the BSNL. In the event of failure on the part of the successful tenderer to sign the agreement, the earnest money will be forfeited and the tender cancelled.
- n. This Notice Inviting Tender (BSNL EW-6) shall form a part of the contract The notice inviting tender, all the documents including additional conditions, specifications and drawings, if any, forms the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
- o Standard BSNL EW Form 8.

Sub Divisional Engineer (E)

IMPORTANT NOTE FOR CONTRACTORS

1 Earnest Money

1.1 Value

The amount of earnest money to be deposited with each tender is 2% of the estimated cost put to the tender subject to a maximum of Rs. 2 crores. Earnest money will be acceptable in the form of CDR/FDR/DD/BG.

1.2 Validity Period

The validity period of the Earnest Money Deposit is kept 30 days beyond the tender validity e.g. 90 +30 = 120 days, since the tender validity period is 90 days.

1.3 Extension of Validity

In case, where the letter of award of work cannot be placed within the validity period of the tender, the BSNL can request all tenderers 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.

1.4 Release of Earnest Money deposit

Earnest Money deposit of all unsuccessful tenderers should be released on issue of award letter to the successful tenderer.

Where the BSNL requests the tenderer to extend the validity of the tender beyond the stipulated period given in the tender documents, and the tenderer refuses to extend the validity of his tender, the Earnest Money deposit of such tenderers is returned forthwith.

2 (i) Performance Guarantee

The contractor is required to furnish performance guarantee for an amount equal to 5% of the contract value in the form of bank guarantee (of a Nationalized / Scheduled Bank in a standard format)/CDR/FDR/DD within two weeks from the date of issue of award letter. The validity period of the performance security in the form of performance bank guarantee shall be two years(i.e. Warranty period) from the date of actual completion of work.

(ii) 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.

3. Increase/ Decrease of tendered quantity

BSNL will have the right to increase or decrease up to 25% of the contract value depending upon the requirement of goods and services specified in the schedule of items without any change in the unit price or other terms and conditions at the time of award of contract.

In exceptional situation where the requirement is of an emergent nature and it is necessary to ensure continued supplies from the existing vendors, the purchaser reserves the right to place repeat order up to 50% of the quantities of goods and services contained in the running tender /contract within a period of twelve months from date of award of work at the same rate or a rate negotiated (downwardly) with the existing vendors considering the reasonability of rates based on prevailing market conditions and the impact of reduction in duties and taxes etc.

4. **Completion of work**

The work should be completed as per the time schedule mentioned in the table of mile stones in proforma of schedules. The work is deemed to have been completed after successful completion of the initial acceptance testing. However, bill shall be finalized only after successful final acceptance testing as per the departmental standards by T&D circle.

5. **Extension of time**

If the contractor shall desire an extension of time for completion of work on the grounds of his having been unavoidably hindered in its execution or on any other ground, he shall apply in writing to the Engineer – in –charge within 30 days of the hindrance on the account on which he desires such extension as aforesaid, and the Engineer – in – charge shall, if in his opinion reasonable grounds to be shown therefore, authorize such provisional extension of time, if any, as in his opinion be necessary or proper.

6. **Compensation for delay**

If the contractor fails to maintain the required progress or complete the work and clear the site on or before the contract or extended date of completion, he has to pay the compensation for delay which is limited to 0.5% per week of work order value for the first 10 weeks and 0.7 % per week for next 10 weeks and thereafter subject to a maximum of 12% of the work order value for the location where the work is delayed and the firm is found responsible for the same. Flow chart of the procurement process / contract shall be supplied by the contractor and approved by Executive Engineer concerned.

7. **Payment Terms**

Payment to the contractors during progress of work is regulated for all the items as below:

90% of prorata of the approved price breakup of contract value after successful installation of Batteries

10% of prorata of the approved price breakup of contract value after successful completion of Testing.

8. **Variation in GST**

- 1) In case of statutory variation in GST in respect of EA sets only within the stipulated date of completion of individual agreement, the same shall be paid or recovered as per the actuals against documentary proof. However, beyond this period the department will take advantage of any duty reduction but will not pay extra on account of duty increase.

9. The Department reserves the right to accept the quantities in full or in parts.

10. Tendered rates inclusive of taxes and levies payable under the respective statutes. However, pursuant to the Constitution (Forty Six Amendment) Act 1982, if any further tax or levy is imposed by the 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 SE (whose decision shall be final and binding) attributable to delay in execution of work within the control of the contractor(s).

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/documents as the Engineer-in-charge may require.

The contractor(s) shall within a period of 30 days of imposition of any further tax or levy pursuant to the Constitution (Forty Six 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.

NOTE: No additional condition whatsoever will be accepted for turnover tax/sales tax on works contract. In case of additional conditions for the payment of such taxes by the contractor the tender may be liable to be summarily rejected by the accepting authority. No conditional offer shall be entertained and rejected.

(Standing order No.258)

11. Tax and Duties

- i. All rates quoted by the firm shall be inclusive of all taxes and GST to be quoted separately.
- ii. Proof of payment/exemption of GST should be produced along with the bill raised against supply. In the absence of such proof, no payment shall be made against supplies.
- iii. All statutory deductions shall be made at source and a certificate for the same shall be issued.
- iv. Registration for Goods and service tax is compulsory.
- v. BSNL or any of its officers should not be mentioned as consignees for receipt of any material at site.
- vi. In case of non-payment of any Taxes or Statutory levies (currently in force or prescribed during the currency of the Contract) by the Agency, the Agency shall indemnify BSNL against all liabilities i.e. Financial, Legal or of any other nature whatsoever; arising from such non-payment during currency or after closure of the contract.
- vii. The GST payment voucher from the authorities shall be submitted before the release of security deposit.

12. Miscellaneous

The firm must meet all statutory obligations towards the labours employed at its own cost. Nothing extra shall be paid by BSNL to meet the requirements as per (a) above.

13. Participation of Near Relatives of BSNL Employees in the tenders.

1. The firm shall certify that there are no near relatives as specified below are working in BSNL as per the certificate attached in page No.: ____

The near relatives for this purpose are defines as:

- A) Members of a Hindu Undivided Family
- B) The one is related 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).
- C) The company or firm or any other person is not permitted to tender for works in BSNL units in which his near relative(s) is (are) posted. The unit is defined as SSA / Circle / Chief Engineer / Chief Architect / Corporate Office for non-executive employees and all SSA in a circle including circle office / Chief Engg. / Chief Arch. / Corporate office for executive employees (including those called as Gazetted Officers at present).

Sub Divisional Engineer (E)

SPECIAL CONDITIONS OF CONTRACT

1. PROGRAMME FOR EXECUTION:

The firm shall execute the work as per detailed programme as mentioned in table of mile stones in schedule of proforma. Tentative dates for installation, testing, commissioning of battery and battery charger shall be also submitted.

2. STORES AND SAFETY:

The contractor from his own sources shall arrange all the stores and materials required for the satisfactory completion of the work at work site. However, safe custody of material stored at site will be the responsibility of the contractor.

3. PACKING, FORWARDING AND STORING AT SITE:

Before dispatch to site, the equipment / components / materials shall be properly packed for protection to avoid transit damages and damage against storage in open area at transporters premises or at work site.

4. COORDINATION AT SITE:

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

5. DRAWINGS:

Schematic diagram of control wiring shall be supplied.

Sub Divisional Engineer (E)

ANNEXURE – C (PERFORMANCE SECURITY GURANTEE BOND)

1. In consideration of the CMD, BSNL (hereinafter called 'BSNL') having agreed to exempt _____ (hereinafter called 'the said contractor(s)') from the demand under the terms and conditions of an agreement/Advance Purchase Order No. _____ dated: _____ made between _____ and _____ for the supply of _____ (hereinafter called "the said agreement"), of security deposit for the due fulfillment by the said contractor (s) of the terms and conditions contained in the said Agreement, on production of the bank guarantee for _____ we, (name of the bank) _____ (hereinafter refer to as "the bank") at the request of _____ (contractor(s)) do hereby undertake to pay to the BSNL an amount not exceeding against any loss or damage caused to or suffered or would be caused to or suffered by BSNL by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.
2. We (name of the bank) _____ do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the BSNL by reason of breach by the said contractor(s)' of any of the terms or conditions contained in the said Agreement or by reason of the contractors(s)' failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of BSNL in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.
3. We under take to pay to the BSNL any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.
4. We (name of the bank) _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the BSNL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____ (office/Department) BSNL certifies that the terms and conditions of the said Agreement have been fully or properly carried out by the said contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of ONE YEAR after actual completion of work.

5. We (name of the bank) _____ further agree with the BSNL that the BSNL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the BSNL against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the BSNL or any indulgence by the BSNL to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/supplier(s).
7. We (name of the bank) _____ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the BSNL in writing.

Dated the _____ day of _____

for _____

Indicate the name of the bank

Proforma -B

Certificate regarding near relatives (not employed in BSNL) to be given by prospective the tenderers.

CERTIFICATE

I / We _____ S/o _____ resident of _____ hereby certify that none of my near relative's is / are employed in BSNL unit**. In case of any stage it is found that the information given by me is false / incorrect BSNL shall have been absolute right to take any action including termination of contract, as deemed fit / without any prior intimation.*

**Near Relative(s) for this purpose is / 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) and sons'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). BSNL Unit ** is defined as SSA / Circle / Chief Engineer (Civil)/ (Elect.) / Chief Archt. / Corporate office for non executives employees and all SSA in a circle including Circle office / Chief Eng. (Civil) / (Elect.) / Chief Archt. / Corporate office for executive employees (including those called as Gazetted officers at present).*

- Note: 1. The 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 BSNL units**.*
- 2. Company or firm is not permitted to tender for work in BSNL unit ** in which his near relative(s)* is / are working.*
- 3. "Government of India Financial Institutions nominees and independent non official part time Directors appointed by Govt. of India or the Governor of the state including full time Directors of PSUs both state and central are excluded from the purview of submission of certificate in regard of employment of near relatives working in the BSNL while submitting tenders by limited companies."*

Signatures of Contractor

Name

PostalAddress

**.....
Telephone & Mobile No.....**

Proforma-C

Certified that I / we S/o
..... resident of
.....

have downloaded the entire tender document including the NIT, Proforma A,B, Schedules, additional specification, condition, special condition, annexures, proformas, Schedule of quantities etc. and all other contents in the tender documents intact as it was displayed on the web-site www.telangana.bsnl.co.in on (date) at (time) and no tempering/ change viz any modification/ addition/ correction / deletion etc. has been made anywhere. The tender document submitted by me/ us are same / identical as available on the web-site. If it is found at any stage that I/We have resorted to any tempering / change as mentioned above in the downloaded tender document which may or may not lead to change in any of the specification, condition, clauses, nomenclatures, quantities or meaning of any of the relevant sentences, BSNL shall have absolute right to terminate the contract and start criminal proceedings. BSNL shall have full rights to indemnify themselves against any lossess occasioned due to such tampering of the document as mentioned above. I understood that PWD 6, PWD 7/8 will be part of the Agreement. I have gone through fully the clauses of PWD 6, PWD 7/8 and will be abide by that.

Name

Postal Address

.....

Telephone & Mobile No.....

SPECIFICATION FOR THE WORK OF PROVIDING EI & FANS

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. Following categories of wiring shall be done on separate conduits.
 - a) Power plug
 - b) Light and fan wiring
 - c) Emergency light point wiring
 - d) Telephone wiring e) AC unit wiring.
5. The No. of power plug points and emergency light point (fed from DC supply) shall not exceed 2 per circuit.
6. Earthing sets work shall be carried out in the presence of the Engineer-in-charge or his authorized representative.
7. 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 from the site of work.
8. 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
 - 2) Polarity test
 - 3) Insulation test
 - 4) Earth continuity test of the surface recessed conduit pipes.
9. 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 Sub Divisional Engineer (E) then the same will be got done at his cost departmentally after giving notice to him.
10. The outlet boxes, IC boxes for switch gears and ends of conduit etc., for different categories of conduit runs catering for different types of electrical wiring as mentioned in clause above shall be painted inside/outside with different colours satisfying different categories mentioned so as to avoid mixing of various circuits and their wiring and nothing extra will be paid for this.

11. At the time of laying conduit pipes in the slab and in recess the contractor will keep wire of 15 SWG GI throughout the conduit pipe and will have to take special care so that the conduit does not pass through air conditioning ducts, grills columns, beams etc. If any such necessity is foreseen special written permission of Sub Divisional Engineer (Electrical) should be obtained before such work is carried out. In case of failure the contractor will not be paid on this account. The contractor should recess the conduit in the walls before they are plastered and co-ordination with the progress of building work. Any damages thus done will have to be made good at the cost of the contractor. The conduit pipes should be mechanically and electrically continuous.
12. The bakelite covers for the switches; plug sockets etc., shall not be removed or broken for taking connections which shall be done at their back by prdg. Suitable wooden reaper in the IC boxes where found necessary. Alla wooden boxes for switches, plug and regulator etc., shall be provided with 1/8" thick bakelite sheet covers.
13. The runs of various circuits wiring at various places shall be kept minimum by taking the runs on walls where cross of columns is not necessary. This has to be decided before casting of slab so that unnecessary length of conduit is not laid there in.
14. All the IC distribution sub-main board and corresponding switch near shall be sign-written clearly indicating the No. of distribution boards, type of load it is serving and the number of circuits contained in the distribution box. Details of the routes led from a particular distribution box shall be placed in tabular form on the reverse of the cover of the distribution box.
15. Under ground cables both of 11KV and 1.1 KV grade should be subjected to pressure of insulation tests before and after laying the same in the ducts. In case of unsatisfactory tests, the cost of all repairs and replacement and all extra works of removal and relaying will have to be made good by the contractor at his own risk.
16. While making 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.
17. The bus-bars of the single phase distribution box shall be of solid aluminium strip instead of sheet metal.
18. Lugs should be provided while terminating 8 SWG GI wire fro earth continuity without any extra payment.
19. The termination of conduit etc., in the junction box to be provided above DBs should be done by making proper holes knockouts instead of cutting the box.

20. 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.
21. If any conduits were laid before award of this work the recovery for the same will be made from the contractor at rates specified in the SR 94 (internal) plus abatement of tender.
22. 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 Higher authority

Sub Divisional Engineer (E)

LIST OF APPROVED MAKES- BSNL ELECTRICAL WING

S..	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	
6	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
7	MCCB(Ics=Icu)	L&T/ Schneider Electric / Siemens
8	SDF units	L&T/ Schneider Electric / Siemens/ HPL/Havells
9	Power Contactors	L&T/ Schneider Electric / Siemens/ Lakshmi(LECS)
10	Change Over Switch	HPL / Havells / H-H Elcon
11	Intelligent APFC Relay	L&T/EPCOS(Siemens)/ Schneider Electric / Neptune Ducati/Syntron/ABB
12	Bus Bar Trunking/ Sandwiched Bus Duct	Moeller/L&T/Schneider Electric/ABB/Legrand/Zeta
13	Power Capacitors (MPP/APP)	L&T/EPCOS(Siemens)/ABB/Crompton/ Schneider Electric/Neptune Ducati
14	Digital/ KWHr meter	Schneider Electric/ AE/ Digitron / IMP/ Meco / Rishabh / Universal/HPL/L&T/ABB
15	Cold shrink HT/LT Cable Joint	Denson / 3M(M-Seal)/ Raychem
16	Rubber Matting	ISI mark
17	MCB/ Isolator /ELCB/RCCB/ Distribution Board	Crompton / Havells / Indokopp / MDS Legrand/ L&T / Schneider Electric/ Siemens / Standard/ C&S/ABB/HPL
18	MS/ PVC Conduit	ISI mark
19	Cable Tray	MEM/Bharti/Ratan/Slotco/Profab
20	HT/LT Cables	ISI mark
21	PVC insulated copper conductor wire	ISI mark

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

SCHEDULE

Name of Work: Extending DG supply to STR Bldg from E10B bldg at Khammam.

Sl.No	Description of Item	Qty	-	Rate	Unit	Amount
1	Supplying and fixing of 125 Amps 4Pole ON LOAD Change over switch including providing with 16 SWG MS Box to accomidate 3nos Cable Terminations and wall mounting type [size 700L x 600H x250D] including powder coating, transport to site as reqd., [make Socomec]	1	Jobs		Job	
2	Removing and relaying of existing 3.5 core x 185/240 Sqmm AL armoured UG cable (which is presently feeding MAINS supply to STR bldg) from MV Panel to newly providing Change Over Switch box as reqrd., [approx 10 Mtr].	1	Jobs		Job	
3	Laying of PVC insulated PVC sheathed armoured Alluminium conductor UG cable of 1.1 KV of size exceeding 25 sq.mm but not exceeding 120 sq.mm in the following ways					
	a) on surface of wall with suitable clamps	10	Mtrs		Mtr	
	b) In the existing trench / hume pipe / GI pipe	20	Mtrs		Mtr	
4	Supplying and making end termination with brass compression gland and aluminium lugs for the following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
	a) 3.5 x 50/70 sq.mm	4	Sets		Set	
	b) 3.5 x 185/240 sq.mm	4	Set		Set	
		Sub Total (Net)				
		Add SGST @ _____ %				
		Add CGST @ _____ %				
		Add IGST @ _____ %				
		Grant Total (Gross)				

Contractor

Sub Divisional Engineer(E)
BSNL Electrical Sub Division
Khammam

ACCEPTANCE

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

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

a)

b)

Dated

For & on behalf of BSNL

Signature _____

Designation