

BHARAT SANCHAR NIGAM LIMITED

(A Government of India Enterprise)



TENDER DOCUMENT

FOR

THE WORK OF

Name of work:- Earthing and other connected works for EA Sets

**BSNL ELECTRICAL SUB DIVISION – IV
HYDERABAD**

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Sd/-
SUB DIVISIONAL ENGINEER (E)
BSNL ELECTRICAL SUB DIVISION-IV,
HYDERABAD

BHARAT SANCHAR NIGAM LIMITED



(A Government of India Enterprise)

NOTICE INVITING TENDER

N I T No 107/SDEE/BSNL/HYD-IV/2009-10/

Dt11-1-2010

1. The Sub Divisional Engineer (E), BSNL Electrical Sub Division No-IV, 6th Floor BSNL Bhavan , Hill Fort Road, Adarshnagar , , Hyderabad invites on behalf of Chairman, Bharat Sanchar Nigam Limited, Sealed item rate tenders from BSNL Enlisted contactors up to 3 PM on **22 January -2010** for the following work.

S.I No.	Name of work	Estimat ed Cost (Rs)	E M D (Rs)	Completion Period	Cost of Tender Form (Non Refundable)
1	SITC of 1 No - 15 KVA Single Phase, RTU EA set for BTS Exchange at Thimmapuram, Thirumalagiri, Velishala and Vardhamankota under Nalgonda SSA. Sub-Head :- Providing Earthing and other connected works.	38812/-	776/-	1 Month	169/-
2	SITC of 1 No - 15 KVA Single Phase, RTU EA set for BTS Exchange at Addagudur, Alagadpa, Narsingbhatla and Pajjur under Nalgonda SSA. Sub-Head :- Providing Earthing and other connected works.	38812/-	776/-	1 Month	169/-
3	SITC of 1 No - 15 KVA Single Phase, RTU EA set for BTS Exchange at Amaravaram ,Eduluru, Kurmaid and N.Annaram under Nalgonda SSA. Sub-Head :- Providing Earthing and other connected works.	38812/-	776/-	1 Month	169/-
4	SITC of 1 No - 15 KVA Single Phase, RTU EA set for BTS Exchange at Peddadevulapally, Pulicherla,Saligowraram and Nellikal under Nalgonda SSA. Sub-Head :- Providing Earthing and other connected works	38812/-	776/-	1 Month	169/-

2. The Contractor shall submit and confirm
3. Valid Chartered 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.
4. List of works completed of the requisite magnitude for the past 3 years 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.

5. Tenders will be opened at 3-30 PM on the same day. In case Holiday is declared, same will be opened on the next working day. Conditions and tender forms can be had from this office on payment, as mentioned above up to 4 PM on all working days . Sale of tender forms shall be closed at 4 PM on **20- January-2010**
6. The cost of tender form is to be paid by cash to the Accounts Officer (Cash) BSNL Electrical Division-I, Hyderabad
7. The Tender documents can also be downloaded from the web site www.ap.bsnl.co.in . The Tenderers who download document from the website are required to enclose the cost of the tender form i.e. Rs 169/- in the form of DD along with the tender.
8. The Tenderer shall submit the tenders in two sealed covers marked as Cover 1st and 2nd.
9. The 1st cover should contain the following:
 - i). Earnest Money Deposited in the form of DD/ PO of scheduled Bank or a Nationalized Bank,
 - ii). Cost of the tender documents in the form of DD
 - iii). The Credentials of the 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.
10. The EMD and cost of the application shall be drawn in favour of Accounts officer (cash), BSNL Electrical division-I, Hyderabad, and the second cover should contain tender document. In case the 1st cover is not annexed or earnest money / Cost of application is not in proper form or after verification of credentials contained in the cover and if found not eligible or incomplete, the second cover containing tenders will not be opened and such tenders will be summarily rejected.

Sub Divisional Engineer (Elect)
BSNL Electrical Division-IV
Hyderabad 500001

Copy to:

- 1) The Executive Engineer (E), BSNL Electrical Division-I, Hyderabad
- 2) The Sub Divisional Engineer (E), BSNL Electrical Sub Divin Sangareddy / Nizamabad
- 3) The Eligible Contractors
- 4) The AO/SDE (E-P)/SSS/Auditor/Cashier/Notice board/Spare.

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 pro-forma 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)

General Conditions of Contract

1. Submission of Credentials

The credentials for meeting the eligibility conditions shall be submitted along with the cost of the tender documents (in the shape of demand draft) and earnest money in first envelope. The credentials shall be self attested and certify by any BSNL Sub Divisional. If not certified by BSNL Sub Divisional than original documents shall be produced at the time of tender opening. After verification of the contents of this envelope and if found eligible then the second envelope containing the bid documents shall be opened.

2. Submission of tender document

The tenderer shall submit the downloaded original computer print out of the document from website. The photocopy shall not be accepted. If during the process of tender finalization, it is detected the tenderer has submitted tender documents after making any changes / additions / deletions in the tender documents downloaded from the website, the offer shall be summarily rejected and the EMD deposited by tenderer shall be forfeited in addition to any other action as per prevalent rules.

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

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

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-Sub Divisional employees and all SSA in a circle including circle office / Chief Engg. / Chief Arch. / Corporate office for Sub Divisional employees (including those called as Gazetted Officers at present).

4 Inspection of Site and Contract Documents

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

5 Variation in quantities in respect of unit rates items will be governed by unit rates in the Agreement. This applies to all variations ordered during the currency of the main contract regardless of the quantity of variation. For any item of work not covered by the schedule of work Clause 12 of PWD-8 shall apply.

6. **I.S. Standards:**

The entire system shall conform to relevant Bureau of Indian Standards as amended up to date. Where IS standards are not available the British standard(s) shall be followed. In case of conflict, the requirements of these specifications shall be given over-riding priority. The electrical and earthing work shall be carried out as per CPWD specifications for electrical works (internal) and electrical works (external) as amended up to date.

7. **Modifications/Alterations.**

7.1 Modifications or alterations in the design/specifications of any equipment/material will not be permitted by the department as a matter of principle.

7.2 However, the department may relax the above stipulation in exceptional circumstance where:

a) The same is necessitated due to non-availability of material/component of certain specifications or make.

OR

b) Such alterations constitute an improvement in the opinion of the contractor.

7.3 Prior written approval of the department shall be obtained before execution of such alterations/modifications.

8. Quality Assurance

The EI works are to be executed in accordance to the CPWD specifications. The work is considered to be completed only after the successful completion of testing.

9 Earnest Money

9.1 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.

9.2 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.

9.3 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.

9.4 Release of Earnest Money deposit

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

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.

10 (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 one year 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.

11. Increase/ Decrease of tendered quantity

- a) 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.
- b) In exceptional situation where the requirement is of an emergent nature and it is necessary to ensure continued supplies from the existing vendors, the purchaser reserves the right to place repeat 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.

12 Period of Completion of Work

- 12.1 The time period will be reckoned from the 10th day after the date on which the order of commence the work issued to the contractor.
- 12.2 The normal time period of completion shall be one month.

13 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.

14. 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 Sub Divisional Engineer concerned.

15. TERMS OF PAYMENT:

- a) 80% of prorata of the approved price breakup of contract value on receipt of equipment at site and after satisfactory physical inspection.
- b) 20% of the approved contract value after successful installation, testing and commissioning

16. Determination of the Contract

The Engineer-in-Charge may determine the contract in respect of any delay, interior workmanship as per clause 3 of PWD – 8 contract conditions.

17. The Department reserves the right to accept the quantities in full or in parts.
- 18 (a) 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 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 EE (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/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 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/VAT/Sales Tax on Works Contract & service tax. In case of additional conditions for the payment of such claims by the contractor, the tender may be liable to be summarily rejected by the accepting authority.

19. Tax and Duties

- (a) All rates quoted by the firm shall be inclusive of all taxes and duties including service tax, VAT, ED, and WCT etc. Octroi exemption certificate will not be issued. Form 'C' shall be issued by BSNL on request.
- (b) All statutory deductions shall be made at source and a certificate for the same shall be issued.
- (c) No bill for the work (on receipt of the equipment) shall be made unless payment voucher for excise duty is submitted.
- (d) The service tax payment voucher from the authorities shall be submitted before the release of security deposit.
- (e) Registration No. for service tax, VAT and excise duty is compulsory.

20. Processing of contractors / suppliers bills

- (1) The agency shall submit the following along with bills
(As applicable to the concern agency)
 - (a) Service tax and Excise duty registration numbers must be noted on the bills
 - (b) Excise invoice / Gate pass
 - (c) Certificate from the agency stating that EPF contribution as applicable to the Employees engaged by him, are made from time to time.

• * * *

Name of work:- SITC of 1 No - 15 KVA Single Phase, RTU EA set for BTS Exchange at Amaravaram, Eduluru, Kurmaid and N. Annaram under Nalgonda SSA. Sub-Head :- Providing Earthing and other connected works.

S.No	Description of Item	Qty	Rate	Unit	Amount
1	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 etc., (but without charcoal or coke and salt) complete as reqd. (1 for EA body earthing and 1 for EA Neutral earthing)	8		Set	
2	Extra for using charcoal and salt for G.I or copper plate earth electrode as reqd.	8		Set	
3	Providing and fixing 25mm x 5mm GI strip in 40mm dia GI pipe including supplying and fixing of 40mm dia GI Pipe from earth electrode etc, as req.	24		Mtrs	
4	Providing and fixing 25mm x 5mm GI strip on surface or in recess for connections etc, as required.	100		Mtrs	
5	Laying 4 x 16 sq mm PVC insulated PVC sheathed armoured Aluminium conductor underground cable in the following ways				
	a). In the ground including excavation , sand cushioning , protective covering , protective covering with bricks , making good etc., as required.	100		Mtrs	
	b). On surface of wall/ceiling	35		Mtrs	
6	Supplying and making end termination for following size of PVC Insulated PVC Sheathed AUG Aluminium conductor AUG cable with brass compression gland including crypmping with lugs etc., as req				
	a) 4 x 16 Sqmm	16		Sets	
7	Supplying and Laying of 10 pair Telephone cable (ISI Mark) in the existing PVC Conduit/GI pipe i/c making inter conections etc, as required.	50		Mtrs	
8	Supplying and Laying of 20mmX3MM PVC pipe on surface of wall etc., as required.	40		Mts	

BLANK

Name of work:- . SITC of 1 No - 15 KVA Single Phase, RTU EA set for BTS Exchange at Thimmapuram, Thirumalagiri, Velishala and Vardhamankota under Nalgonda SSA. Sub-Head :- Providing Earthing and other connected works.

S.No	Description of Item	Qty	Rate	Unit	Amount
1	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 etc., (but without charcoal or coke and salt) complete as reqd. (1 for EA body earthing and 1 for EA Neutral earthing)	8		Set	
2	Extra for using charcoal and salt for G.I or copper plate earth electrode as reqd.	8		Set	
3	Providing and fixing 25mm x 5mm GI strip in 40mm dia GI pipe including supplying and fixing of 40mm dia GI Pipe from earth electrode etc, as req.	24		Mtrs	
4	Providing and fixing 25mm x 5mm GI strip on surface or in recess for connections etc, as required.	100		Mtrs	
5	Laying 4 x 16 sq mm PVC insulated PVC sheathed armoured Aluminum conductor underground cable in the following ways a). In the ground including excavation , sand cushioning , protective covering , protective covering with bricks , making good etc., as required.	100		Mtrs	
	b). On surface of wall/ceiling	35		Mtrs	
6	Supplying and making end termination for following size of PVC Insulated PVC Sheathed AUG Aluminum conductor AUG cable with brass compression gland including crimping with lugs etc., as req a) 4 x 16 Sqmm	16		Sets	
7	Supplying and Laying of 10 pair Telephone cable (ISI Mark) in the existing PVC Conduit/GI pipe i/c making inter connections etc, as required.	50		Mtrs	
8	Supplying and Laying of 20mmX3MM PVC pipe on surface of wall etc., as required.	40		Mts	

CONTRACTOR

SUB DIVISIONAL ENGINEER(E)

Name of work:- . SITC of 1 No - 15 KVA Single Phase, RTU EA set for BTS Exchange at Addagudur, Alagadpa, Narsingbhatla and Pajjur under Nalgonda SSA. Sub-Head :- Providing Earthing and other connected works

S.No	Description of Item	Qty	Rate	Unit	Amount
1	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 etc., (but without charcoal or coke and salt) complete as reqd. (1 for EA body earthing and 1 for EA Neutral earthing)	8		Set	
2	Extra for using charcoal and salt for G.I or copper plate earth electrode as reqd.	8		Set	
3	Providing and fixing 25mm x 5mm GI strip in 40mm dia GI pipe including supplying and fixing of 40mm dia GI Pipe from earth electrode etc, as req.	24		Mtrs	
4	Providing and fixing 25mm x 5mm GI strip on surface or in recess for connections etc, as required.	100		Mtrs	
5	Laying 4 x 16 sq mm PVC insulated PVC sheathed armoured Aluminum conductor underground cable in the following ways a). In the ground including excavation , sand cushioning , protective covering , protective covering with bricks , making good etc., as required.	100		Mtrs	
	b). On surface of wall/ceiling	35		Mtrs	
6	Supplying and making end termination for following size of PVC Insulated PVC Sheathed AUG Aluminum conductor AUG cable with brass compression gland including crimping with lugs etc., as req a) 4 x 16 Sqmm	16		Sets	
7	Supplying and Laying of 10 pair Telephone cable (ISI Mark) in the existing PVC Conduit/GI pipe i/c making inter connections etc, as required.	50		Mtrs	
8	Supplying and Laying of 20mm PVC pipe on surface of wall etc., as required.	40		Mts	

CONTRACOR

SUB DIVISIONAL ENGINEER(E)

Name of work:- SITC of 1 No - 15 KVA Single Phase, RTU EA set for BTS Exchange at Peddadevulapally, Pulicherla, Saligowraram and Nellikal under Nalgonda SSA. Sub-Head :-
Providing Earthing and other connected works

S.No	Description of Item	Qty	Rate	Unit	Amount
1	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 etc., (but without charcoal or coke and salt) complete as reqd. (1 for EA body earthing and 1 for EA Neutral earthing)	8		Set	
2	Extra for using charcoal and salt for G.I or copper plate earth electrode as reqd.	8		Set	
3	Providing and fixing 25mm x 5mm GI strip in 40mm dia GI pipe including supplying and fixing of 40mm dia GI Pipe from earth electrode etc, as req.	24		Mtrs	
4	Providing and fixing 25mm x 5mm GI strip on surface or in recess for connections etc, as required.	100		Mtrs	
5	Laying 4 x 16 sq mm PVC insulated PVC sheathed armoured Aluminum conductor underground cable in the following ways a). In the ground including excavation , sand cushioning , protective covering , protective covering with bricks , making good etc., as required.	100		Mtrs	
	b). On surface of wall/ceiling	35		Mtrs	
6	Supplying and making end termination for following size of PVC Insulated PVC Sheathed AUG Aluminium conductor AUG cable with brass compression gland including crimping with lugs etc., as req a) 4 x 16 Sqmm	16		Sets	
7	Supplying and Laying of 10 pair Telephone cable (ISI Mark) in the existing PVC Conduit/GI pipe i/c making inter connections etc, as required.	50		Mtrs	
8	Supplying and Laying of 20mmX3MM PVC pipe on surface of wall etc., as required.	40		Mts	

CONTRACTOR

SUB DIVISIONAL ENGINEER

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.
 - a) Earth test
 - b) Polarity test
 - c) Insulation test
 - d) 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. All 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 for 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 him 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 S.E. (E).

Sd/-
Sub Divisional Engineer (E)
BSNL Electrical Sub Division - IV
Hyderabad

List of Approved Makes for EI & Fan, Pump Set, Compound Light

S.No.	Category	Make
1	ACB	L&T / Siemens / Crompton / Control and Switchgear / GE Power controls
2	MCCB	Siemens / L&T / GE Power controls / Control and Switchgear / Crompton
3	TPN Switch & HRC Fuses	Siemens / L&T / GE Power controls / Havells / H-H Elecon / Crompton / Standard (Up to 400 Amps)
4	CT	AE / IMP / Marshal / Pactil / Kappa / L&T / Ashmor / Indcoil / Waco / Meco
5	AMMETER / VOLTMETER	AE / IMP / Unisersal / Reshabh / Kaycee / Meco / Enercom RESHABH
6	SELECTOR SWITCH	L&T / Kaycee / AE / IMP / Thakoor / Reco / Vaishno / Selzer / Rass control
7	INDICATING LAMP	Vaishno / Siemens / L&T / AE / IMP / Rass Control / Teknic / Crompton / Kaycee
8	CAPACITOR	Khatau Junkar / Crompton / L&T / Universal Electric / Usha / Asian / AE / IMP
9	CABLES	
	(a) Up 1.1 KV grade	ISI MARK
	(b) Above 1.1 KV grade	ISI MARK
10	PVC Insulated Copper conductor wire	ISI MARK
11	FIRE EXTINGUISHERS	ISI MARK
12	RUBBER MATTING	ISI MARK
13	Cable Joint Kit	Raychem / M-Seal / DENSONs
14	Single Phasing Preventor	L&T / Minilac / Zero trip / Siemens
15	Timers	L&T / Siemens / Minilac / Telemechanique / AE
16	MCBs / Isolators and Distribution Boards	Bentex / Clariton / Havells / Indo-cupp / Siemens / Standard / Crompton / MDS
17	Change Over Switch	Standard / Havells / Control and Switchgear / HH -Elecon
18	Piano Switch	ISI MARK
19	Monoblock Pump set	Beacon / Batliboi / Kirloskar / Jyoti / Mather and Platt / KSB / Crompton / WASP / BE / PEC
20	Starter	L&T / Siemens / BCH / ABB / MEI / GE Power Control
21	GI/MS PIPE	TATA / ATI / ITC / ATC/ IIA / JST / ITS / JINDAL / ZENITH / GSI / TTA / BST
22	Foot Valve	ISI MARK
23	Gate Valve	Sant / Leader / Trishul / Fountain / Annapurna
24	MS Conduit	ISI MARK
25	Submersible Pump	KSB / Calama / Amrut / Kirloskar / PEC / BE
26	ELCB	Standard / MDS / Havells / Datar / Siemens / GE Power Control
27	CONTACTORS	Siemens/ L&T / GE Power controls / Crompton / MEI / Laxmi

Sd/-
Sub Divisional Engineer (E)

ANNEXURE - D

Addendum/Modification to PWD - 8 Form.

S.No.	Description
1.	Security Deposit clause shall be governed by special condition of contract clause 16.
2.	Clause 10 CC shall not be applicable as a stipulated time for individual contract shall be 3 months or less.
3.	Clause 29A shall be governed by Clause 20 of special conditions of contract.
4.	Clause 2 shall be read in conjunction with Clause 17 of special conditions of contract.
5.	Conditions of contract definitions: All references to <ul style="list-style-type: none">i) CPWD/Public Works Dept./P&T Dept.ii) D.G. Works/Additional Chief Engineer/Chief Engineer of Zone.iii) Administrative Head of CPWD/P&T Dept.iv) CPWD Circles/Civil Circles.v) Ministry of Works, Housing and Supply.

In various Clauses shall be taken to mean

- a) BSNL Civil / Electrical Engineering Wing.
- b) Principal Chief Engineer (E), BSNL.
- c) Administrative head of BSNL.

**CERTIFICATE TO BE SIGNED AND SUBMITTED BY THE TENDERERS
PARTICIPATING IN THE BSNL
TENDERS / EXECUTION OF WORKS**

I S/o R/o
.....

.....hereby certify that none of my relative(s) as defined in
the tender document is / are working in BSNL unit as per details given in the tender document.

In case at any stage, it is found that the information given by me is false / incorrect, BSNL shall
have the absolute right to take any action as deemed fit without any prior intimation to me.

Signature of Contractor

BLANK