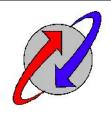
Office of the Sub Divisional Engineer (E), BSNL Electrical Division Head Post Office Complex, BSNL CSC, building Dharamshala-176215 e-mail :- sdeedma@gmail.com



BHARAT SANCHAR NIGAM LIMITED (A Govt. of India Enterprise)

Tel.No. 01892-222500.

NAME OF WORK: Repairing of Electrical Installation & other associated work of BTS Station at Khirididhar (HP).

Name of Agency :-Date of Application :-Date of issue of Tender Documents :-Cost of Tender :- **Rs.177.00**

Date of Opening :-

UNDERTAKING

It is undertaken that we have gone through all the clauses /sub-clauses & terms & conditions of the BSNL EW-6 & BSNL EW -8 forms. We abide by that & we understand that the same shall be part & parcel of the agreement.

Signature of Contractor

Sub Divisional Engineer (E) BSNL Electrical Sub Division Dharamshala (HP)-176215

Name of Agency:		
Tender Cost:- vide DD No :-	Dated	of
EMD:- Vide DD/FDR/BG No:-	_ Dated	_of

NAME OF WORK: Repairing of Electrical Installation & other associated work of BTS Station at Khirididhar (HP).

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This certified that this NIT contains ...35_pages excluding pages A &B,

CORRECTION SLIP

Addendum/Modification to BSNL EW -8 & BSNL EW -6 Forms Conditions of contract-Definitions:-

All reference to :-

- i) BSNL EW /Public work department/P&T Department./D.O.T. /B.S.N.L
- ii) D.G. works/ Additional Chief Engineer BSNL EW /Chief Engineer of Zone.
- iii) Administrative Head of BSNL EW /P&T Department.
- iv) BSNL EW Circles /Civil Circle.
- v) Ministry of works, Housing & supply.
- vi) Government.

In various clauses shall be taken to mean :-

- i) Bharat Sanchar Nigam Limited.
- ii) Chief Engineer (E), Bharat Sanchar Nigam Limited.
- iii) Administrative Head of Bharat Sanchar Nigam Limited.
- iv) Telecommunications Electrical Circle.
- v) Bharat Sanchar Nigam Limited (Ministry of Communications)
- vi) Bharat Sanchar Nigam Limited

SHORT TERM TENDER NOTIFICATION

The Sub Divisional Engineer (E) BSNL Electrical Sub Division Dharamshala (HP)-176215 invites on behalf of Bharat Sanchar Nigam Limited sealed item rate tenders for the work of :- Repairing of Electrical Installation & other associated work of BTS Station at Khirididhar (HP).

Last date of receipt of application up to 27-05-2021(5.00 P.M.)

For further details please visit our Web Site. www.hp.bsnl.co.in

Sub Divisional Engineer (E) BSNL Electrical Sub Division Dharamshala (HP)-176215

SHORT TERM TENDER NOTIFICATION

The Sub Divisional Engineer (E) BSNL Electrical Sub Division Dharamshala (HP)-176215 invites on behalf of Bharat Sanchar Nigam Limited sealed item rate tenders for the work from the eligible contractors satisfying the following conditions as given below :-

Name of work	Estimated cost (Rs.)	Earnest Money Deposit (Rs.)	Time for completion
Repairing of Electrical Installation & other associated work of BTS Station at Khirididhar (HP).	Rs. 30203.00	Rs. 604.00	10 days

A. Eligibility Conditions

The Contractors satisfying the following conditions:

1. BSNL enlisted contractors in Electrical category –IV (E) & above.

The Contractor shall have to possess a valid ELECTRICAL LICENCE of appropriate Voltage Issued by any State Govt. Under Clause 45 of compilation of Indian Electricity Rules 1956 or as amended from time to time, provided notification in official Gazette, exempt, on such condition.

The contractor shall also submit and confirm:

- Documentary proof of satisfying the eligibility conditions as above, copy of PAN card, copy of CA certificate for turnover, Original authorization of person quoting the tender from Directors/ Proprietor of the company, Near relative certificate from or on behalf of Directors/ Proprietor of the company. (All the documents shall be self attested / certified by any BSNL Executive /Notary /Gazette Officer of Central Govt.).
- The intending Tenderer must read the terms and conditions of tender document, BSNL EW-6 & EW-8 carefully which can be accessed from web site www.tenderwizard.com/BSNL or www.hp.bsnl.co.in. He should only submit his tender if he considers himself eligible and he is in possession of all the documents required.
- Documentary proof of satisfying the eligibility conditions as per "1" above , copy of PAN card, copy of CA certificate for turnover, Original authorization of person quoting the tender from Directors/ Proprietor of the company, Near relative certificate from or on behalf of Directors/ Proprietor of the company. (All the documents shall be self attested / certified by any BSNL Executive /Notary /Gazetted Officer of Central Govt.).
- The firm should have GST registration as per GST Act in Himachal Pradesh and should further have EPF and ESI registration certificates from appropriate Govt. authorities.
- The firms who claim to be exempted from the ESI & EPF registration need to submit an affidavit on Nonjudicial stamp paper for the same as per Performa at (Annexure–IV).
- If the firms do not have ESI & EPF registration, they will though be allowed to participate in the bid process, but they will have to get the ESI & EPF registration within15 days from the date of issue of intimation from BSNL regarding intent to accept the tender, else their EMD shall be forfeited absolutely and the firm shall not be allowed to participate in the next tender for the same work. If the firm fails to produce ESI & EPF registration certificate on more than one occasion, the firm shall be barred from participating in all future tenders.
- Declaration of Non-Relative certificate (Annexure-III) & GSTN (Annexure –V)
- Tender cost & EMD in prescribed form.

• The tenderer shall submit the tenders in 2 sealed covers marked as cover 1st and 2nd. The first cover should contain the earnest money deposited in the shape of FDR/CDR/Demand Draft/ Pay order/BG from the scheduled Bank or Nationalized Bank/State Bank guaranteed by Reserve Bank of India drawn in favour of ACCOUNTS OFFICER (Cash), O/o GMTD B.S.N.L., Dharamshala, and the second cover should

contain the tender documents. In case 1st cover is not annexed or earnest money is not in proper form, the 2nd cover containing tenders will not be opened at all.

- The tender documents and all other relevant information/condition can be had on all working day on payment of Rs. 177.00 (One Hundred and Seventy seven Only) i/c taxes in DD/Cash (non refundable).
- In case Holiday is declared on the opening date tender will be opened at 3.30 P.M. on next working day.
 Note:- Tender documents can also be downloaded from the web site www.hp.bsnl.co.in The

firm to quotes on the tender downloaded from web site shall strictly adhere to following procedure :-

- 1. The tender shall be submitted in two envelope system.
- A. First envelope shall contain tender application (if tender downloaded from WEB), tender fee, attested documents proving fulfillment of eligibility criteria as per the tender notice and EMD in proper form. DD should be attached for tender fee, & Bank Guarantee/DD for EMD on Nationalized bank.
- B. Second envelope shall contain duly filled tender documents.

The same shall be clearly written on the envelopes

2. The 1st envelope containing tender fee, attested documents providing fulfillment of eligibility criteria and EMD in proper shall be opened first.

In case if:-

- i) Tender fee is not submitted in proper form.
- ii) EMD is not in proper form.
- iii) Firms fails to fulfill eligibility criteria on the basis of documents submitted in envelope.

The second envelope shall not be opened.

3. If any difference /discrepancies found between downloaded. Tender form, Viz a hard copy issued from Division office / the contents in Draft NIT issued form Div./Circle/CE (E)'s the hard copy /Draft NIT shall be final & binding.

Documentary proof of satisfying eligibility conditions and valid Income Tax clearance certificate or Chartered Accountant Certificate is to be furnished along with the application on printed letter /heads. The tenders of contractors who do not deposit earnest money in the prescribed manner are liable to be rejected.

- TENDER DOCUMENTS SHALL NOT BE SENT BY POST/COURIER.
- ◆ TENDERS RECEIVED BY POST/COURIER SHALL NOT BE OPENED /ENTERTAINED.
- CONDITIONAL TENDERS OR TENDERS WITH CONDITIONAL REBATES SHALL BE SUMMARILY REJECTED.

Last date of receipt of application	:27-05-2021[5.00 P.M.]
Last date of issue of tender document	:28-05-2021[4.00 P.M.]
Last date of submission of tender document	: 29-05-2021[3.00 P.M.]
Date of opening of tender document	:29-05-2021[3.30 P.M.]

Validity of tender shall be for **90 days** from the date of opening of tender.

No. SDE/E/BSNL/ESD/DMA/2021-2022/22

Dated: 20-05-2021

Copy for information and wide publicity to: -

1) Web site www.hp.bsnl.co.in

- 2) The SE(E), BSNL EZ, Shimla
- 3) The EE(E), BSNL ED, Dharamshala.
- 4) Vigilance Officer, O/o GMTD, Dharamshala. .
- 5) The SDE(E), Shimla/Solan/Nahan/Hamirpur/Mandi
- 6) Notice Board then NIT File.
- 7) Contractors.

Sub Divisional Engineer (E) BSNL Electrical Sub Division Dharamshala (HP)-176215

FOLLOWING OFFICERS MAY BE CONTACTED FOR REDRESSAL OF COMPLAINTS

Sr No.	NAME OF OFFICE	Postal Address	Telephone No	FAX No
1	CGMT, HP Circle	O/O the Chief General Manager BSNL, HPTC, Block No. 11, SDA Complex, Kasumpati, Shimla 171 009 (HP)	0177-2620220	0177-2625325
2	The Chief Engineer (Electrical)	First Floor, Block no. 35, SDA Complex, Kasumpati, Shimla- 171009	0177-2628122	
3	The Vigilance officer HP Telecom Circle	O/O the Chief General Manager BSNL, HPTC, Ground Floor, Block No. 9, SDA Complex, Kasumpati, Shimla 171 009 (HP)	0177-2621213	0177-262213

Electrical Division: BSNL, Dharamshala (HP) Sub Division: BSNL ESD, Dharamshala (HP)

Notice Inviting Tenders (As per Tendering Procedure in BSNL revised upto date)

1. Tenders in the prescribed form are hereby invited on behalf of the BSNL for the work of: -

Repairing of Electrical Installation & other associated work of BTS Station at Khirididhar (HP). Estimated cost: Rs. 30203.00

2. (a) Printed forms of tenders consisting of the detailed plans, complete specifications, the schedule of quantities of the various classes of works to be done and the set of conditions of contract to be complied with by the persons whose tender may be accepted, can be purchased, at the Divisional office between the hours of 1100 hrs and 1600 hrs. every day except on Sundays and public Holidays on payment of **Rs. 177.00** i/c of GST (non refundable) in the form of DD.

(b) The site for the work shall be made available in parts.

(c) The tender forms can also be downloaded from the website http://www.hp.bsnl.co.in

(d) Before tendering, the contractor shall inspect the site and fully acquaint himself about the condition with regard to accessibility of site and site nature and the extend of grounds, working condition, including stocking of materials, installation of T&P etc., and conditions affecting accommodation and movement of labour etc., required for the satisfactory execution of the contract. No claim whatsoever on such account shall be entertained by the BSNL in any circumstances.

03. Tenders which should always be placed in sealed covers with the name of the work written on the envelope will be received by the Sub Divisional Engineer (Elect.) in the Electrical Sub Division, Dharamshala, Upto 1500 hours on **29-05-2021** and will be opened by him in his office on the same day at 1530 hours.

04. The time allowed for carrying out the work will be 10 **days** from the 5 the day after the date of written order to commence the work.

05. Issue of tender form will be stopped on the date **28-05-2021** Tenders will be sold on working days, no tenders will be sold after 1600 hours.

06.

a) Earnest Money amounting **Rs. 604.00** in the form of demand draft/ FDR/ BG/ CDR of a nationalized/scheduled bank guaranteed by the Reserve Bank of India, drawn in favour of Account Officer (Cash), O/o GMTD, BSNL Mandi must accompany each tender and each tender should be in TWO sealed covers, one cover containing the EMD in proper form and other cover containing tender, superscripted as "Tender for the work Repairing of Electrical Installation & other associated work of BTS Station at Khirididhar (HP). The Validity period of EMD is 120 days, from the date of opening of tender.

b) The EMD of all the unsuccessful tenderers shall be released on issue of award letter to the successful tenderer. This shall be done within one week of award letter.

c) Exemption from payment of earnest money and security deposit by any other unit/ department shall not hold good for BSNL.

07. a) The contractor should submit and confirm Chartered Accountant Certificate in respect of turnover and other Registration certificate [Enlistment in BSNL, Electrical License, Sales Tax] with attested copies (self attested / certified by any BSNL Executive /Notary /Gazetted Officer of Central Govt) as applicable along with the application on printed letter head for purchase of tender.

b) The contractor shall submit and confirm his permanent account number (PAN) issued by the Income Tax Department.

08. 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 / CDR/FDR/DD (of a nationalized / Scheduled Bank in a standard format) within ONE weeks from the date of issue of award letter. This period can be further extended by the Engineer-in-charge upto a maximum period of 2 weeks on written request of Contractor. 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. [*Applicable in respect of works with estimated cost put to tender exceeding Rs, 6 Lacs.*]

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

09. The acceptance of a tender will rest with the SDE(E)/EE (E) [as applicable]. Who does not bind himself to accept the lowest tender or any other tender and reserves to himself the Authority to reject lowest or all the tenders received without assigning any reason. All tenders in which any of the prescribed conditions are not fulfilled or incomplete in any respect are liable to be rejected. Tenders with any condition including that of conditional rebates shall be rejected forthwith summarily.

10. Canvassing in connection with tender is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.

10. The BSNL reserves itself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.

11. i) The tenderer should give a certificate that none of his/her relative is employed in BSNL units. In case of Proprietorship firm, certificate will be given by the proprietor and for partnership firm certificate will be given by all the Directors of the company.

ii) Near relatives of all BSNL employees either directly recruited or on deputation are prohibited from Participation in tenders and execution of works in the different units of BSNL. The near relatives for this purpose are defined as:

- 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) & son's wife(daughter-inlaw), Daughter(s) & daughter's husband(son-in-law), brother(s) & brother's wife, sister(s) & sister's husband(brother -in-law).

iii) The company or firm or any other person is not permitted to tender for works in BSNL Unit in which his near relative(s) is(are) posted. The unit is defined as SSA/Circle/Chief Engineer /Chief Archt. /Corporate office for non executive employees and all SSA in a circle including circle office/Chief Eng./Chief Archt./Corporate office for executive employees (including those called as Gazetted officers at present). The tenderer should give a certificate that none of his/her such near relative is working in the units as defined above where he is going to apply for tender/work, for proprietorship , parternership firms and limited company certificate shall be given by the authorized signatory of the firm. Any breach of these conditions by the company or firm or any other person, the tender/work will be cancelled and earnest money/performance guarantee will be forfeited at any stage whenever it is so noticed. BSNL will not pay any damages to the company or firm or the concerned person. The company or firm or the person will also be debarred for further participation in the concerned unit.

12. The format of the certificate to be given is

"I......Son of Shri......Resident ofhereby certify that none of my relative(s) as defined in the tender document is/are employed in BSNL unit as per details given in 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".

(Seal of the firm)

(Signature of Contractor)

13. No employee in BSNL/ Govt. of India is allowed to work as a contractor for a period of ONE years of his retirement from service without the prior permission. The contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission as aforesaid before submission of tender and engagement in the contractors service.

14. The tender for the works shall not be witnessed by the contractor who himself / themselves has / have tendered or who may and has/have tender for the same work. Failure to observe this condition would render tenders of the contractors tendering as witnessing the tender is/are liable for summarily rejection.

15. It will be obligatory on the part of the tenderer to sign each page of the Schedule of work and the tender documents for all the component parts and after the work is awarded he will have to enter into a separate agreement for each component with the officer concerned.

16. Any tender not submitted in proper manner or if it contains too many corrections, over writings of absurd rates, and absurd amount will be liable to be rejected and the BSNL will be at liberty to take such action as it may deem fit without any reference to the tenderer.

17. The tenders for the work shall remain open for acceptance for a period of 90 days from the date of opening of the Tenders. If any tenderer withdraws his tender before the said period or makes any modification in the terms and conditions of the tender which is not acceptable to the BSNL shall, without prejudice to any other right of remedy be at liberty to forfeit 50% (fifty percent only) of the said earnest money absolutely.

18. 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.

19. Unsealed tenders will be summarily rejected.

20. The contractor should read the tender documents carefully before submitting the tender.

21. Agreement shall be drawn with the successful tenderer on prescribed form. Tenderer shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.

22. The tenderer shall furnish a declaration to this effect (incase downloaded tender) that no Addition / deletion/ correction have been made in the tender document submitted and is identical to the tender document appearing on website. Every page of downloaded tender shall be signed by the tenderer with Stamp (seal) of his firm /organization.

23. This Notice Inviting Tender shall form 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 form.

24 TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR: Without prejudice of any of the rights or remedies under this contract, if the contractor dies, the Engineer-incharge on behalf of the BSNL shall have option of terminating the contract without compensation to the Contractor.

25 INDULGING CONTRACTOR IN CRIMINAL/ ANTISOCIAL ACTIVITIES AND CASES UNDER INVESTIGATION / CHARGE SHEETED BY CBI OR ANY OTHER GOVERNMENT AGENCIES ETC.

If the CBI/ Independent External Monitor (IEM)/ Income Tax/ Central Excise/ Custom Departments recommend such a course- Action will be taken as per the directions of CBI or concerned department

26. ELIGIBILITY CRITERIA: To be filled by CE (E)/SE (E)/EE (E)/SDE (E) (As per Web notification).

Signature of

Sub Divisional Engineer (E) BSNL, Electrical Sub Division Dharamshala (HP)

For & on behalf of the B.S.N.L.

CONTRAC	т	BSNL EW -8	BHARAT	SANCHAR	NIGAM	LIMIT	ED	
STATE	:	Himachal Pradesh			CIRCLE	:		Shimla
ZONE	:	Himachal Pradesh			BRANC	н :	:	Electrical

Percentage Rate Tender/Item Rate Tender & Contract for Works

(A) Tender for the work of :- Name of Work Repairing of Electrical Installation & other associated work of BTS Station at Khirididhar (HP). To be submitted by 15.00 hours on 29-05-2021 to O/o. Sub Divisional Engineer (E) BSNL Electrical Sub Division Dharamshala (HP)-176215 To be opened in presence of tenderers who may be present at 15.30 hours on 29-05-2021 in the office of O/o. Sub Divisional Engineer (E) BSNL Electrical Sub Division Dharamshala (HP)-176215, BSNL, HPO Building, Near BSNL CSC, Dharamshala-176215.

(Contractor)

Signature of officer issuing the documents _____

Designation___

Date of issue : _____

TENDER

I/We have read and examined the notice inviting tender, schedule, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the B.S.N.L. within the time specified in Schedule 'F', viz. schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and a Clause 12 of the Conditions of contract and with such materials as are provided for by and in respects in accordance with, such conditions as far as applicable.

We agree to keep the tender open for Ninety (90) days from the due date of submissions thereof and not to make any modifications in its terms and conditions.

A sum of Rs 604.00 is hereby forwarded in Receipt Treasury Challans /Deposit at call Receipt/FDR of a Scheduled Bank as earnest money. If I/we fall to commence the work specified I/we agree that the said B.S.N.L. or his successors in office shall without prejudice to any other right or remedy_be at liberty to forfeit the said earnest money absolutely otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision content In Clause 12.2 and 12.3 of the tender form.

I/ We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person, other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safely of the State.

I/We agree that should I/we fail to commence the work specified in the above memorandum, an amount equal to the amount of the earnest money mentioned in the form of invitation of tender shall be absolutely forfeited to the B.S.N.L. and the same may at the option of the competent authority on behalf of the B.S.N.L. be recovered without prejudice to any other right or remedy available in law out of the deposit in so far as the same may extend in terms of the said bond and in the event of deficiency out of any other money due to me/us under this contract or otherwise.

Dated.....

Signature of Contractor

Postal Address:--

Witness:

Address:

Occupation:

ACCEPTANCE

The above tender as modified by hereunder is accepted by me for and on Rs	you (contractor) and as provided i behalf of the Bharat Sanchar Nig	
(Rupees)
The letters referred to below shall form part of a)	this contract Agreement:-	
b)		
c)		
	For & on behalf of the B.S.N.L.	
	Signature	
Dated	Designation	

IMPORTANT NOTE FOR CONTRACTORS

- 1.0 All taxes, Levies, duties etc. in respect of this contract (Including GST) payable by the vendor & BSNL will not entertain any claim in respect of the same. GST Rate applicable to Works Contract shall be 18 % (SGST 9% & CGST 9%) (Reference Sr.no no 3-ii of CBEC Notification No II 2017 Central Tax (Rate) dated 28th June 2017)
- 3.0 BSNL shall deduct statutory taxes and duties like income tax, Etc. from payment due to the firm as per rule of the State / Central Government. The Accounts Officer of the concerned SSA shall issue Certificates for such deductions to the firm.
- 3.0 Ontario Certificate:-"No octroi exemption certificate will be issued by the department".
- 4.0 Department reserves the right to accept the quantities in full or in parts.
- 5.0 SPLITING OF WORKS: No Splitting of work.100% work shall be awarded to the lowest tenderer.
- 6.0 (a) TAXES

Tendered rates are inclusive of all taxes and statutory levies payable under the respective statutes *(including GST)*. However pursuant to the constitution (Forty Six 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 also 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).

- 6.0(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.
- 6.0(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-incharge 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 claims by the contractor the tender may be liable to be summarily rejected by the accepting authority. (Standing order No. 258)
- 7. EARNEST MONEY: Firm has option to deposit earnest money in the shape of FDR/CDR/Demand Draft/ Pay order/BG from the scheduled Bank or Nationalized Bank/State Bank guaranteed by Reserve Bank of India drawn in favour of "Account Officer (Cash), O/o GMTD, BSNL SSA Dharamshala (HP)
- 8. PERFORMANCE GUARANTEE: -As mentioned at page no. 86 of BSNL EW-8 under Schedule "F" of Performa of Schedule.
- 9. SECURITY DEPOSIT:- In addition to performance guarantee 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 Contract value of the work. The amount shall be refunded after One Year from the actual date of completion of work.

10. TERMS OF PAYMENT:-

a) 80% of prorate of the approved price break-up of contract value on receipt of equipment at site.

b) 10% of prorate of the approved price break up of contract value after successful installation

c) 10 % of the approved contract value after successful completion of the testing and commissioning

11. TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR:

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

12. INDULGING OF CONTRACTOR IN CRIMINAL/ANTISOCIAL ACTIVITIES AND CASES UNDER INVESTIGATION / CHARGE SHEETED BY CBI OR ANY OTHER GOVERNMENT AGENCIES ETC. :

If the CBI/Independent External Monitor (IEM) / Income Tax /Sales Tax/ Central Excise/ Custom Departments recommend such a course – Action will be taken as per the directions of CBI or concerned department.

13. DEVIATION:-

a) The ordering quantity can be increased/decreased up to the extent of 25%(deviation limit) without the consent of the firm within the currency of contract. The firm shall execute such quantities at the rate quoted in the tender without any change in terms and conditions of the contract. b) In exceptional situation where the requirement is of an emergent nature and it is necessary to ensure continued supplies from the existing venders, 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 venders considering the reasonability of rates based on prevailing market conditions and the impact of reduction in duties and taxes etc.

14. GUARANTEE & DEFECTS LAIBILTY PERIOD

The guarantee shall be valid for 12 (Twelve) months after successful installation testing and commissioning. The contractor shall guarantee that all the equipment shall be free from any defect due to the defective materials and/ or bad workmanship and also the equipment shall work satisfactorily with performance and efficiencies not less than the guaranteed values. Any parts found defective during the guarantee period shall be replaced free of cost by the contractor. The services of the contractors personnel, if required during this period shall be made available free of cost to the department. a) The representative of department and firm shall prepare a joint report regarding the nature of defect and remedial action required. Time schedule for such action shall be also finalized. b) In case the contractor fails to depute his representative within 36 (thirty six) hours of notification of defects or fails to cause remedial measure within a reasonable time as decided during joint inspection, the department may proceed to do so at the contractor's risk and expenses without prejudice to any other right.

15. 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 10weeks and thereafter subject to a maximum of 12% of the work order value for the location where 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.

Important Conditions for tenders applicable from GST perspective

1.1 BSNL reserves the right to ask the bidders to submit documentary proof confirming the correct HSN or SAC classification/ Customs Tariff Head from the CGST/SGST/IGST officer or Customs authority where the HSN or SAC classification/ Customs 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 GST Act/Customs Tariff notifications.

- 1.2 If the contractor fails to furnish necessary supporting documents i.e. Tax invoices / Customs invoices etc. in respect of the Duties, Taxes and Cesses which are eligible for input tax credit, the amount pertaining to such Duties, Taxes and Cesses will be deducted from the payment due to the firm.
- 1.3 If the contractor fails to perform necessary compliances which would any manner restrict BSNL to claim input tax credit, then the amount pertaining to such Duties, Taxes and Cesses will be deducted from the payment due to the contractor.
- 1.4 If the contractor does not disclose the correct details on the invoice or on the GSTN viz. GSTIN, Place of Supply, etc. which restricts BSNL to claim input tax credit, then the amount pertaining to such Duties, Taxes and Cesses will be deducted from the payment due to the supplier.
- 2. Tax Indemnity clause: BSNL has the right to recover Input Tax Credit loss suffered by it due to any misdeclaration on invoice by the supplier.
- 3. Documents required for claiming the payment:- For claiming the payment, the supplier has to submit the Following documents to the paying authority:-

(a) Invoice clearly indicating break up details of composite price i.e. Basic, GST, any other Duties, Taxes and Cess, Freight/Packing Charges, etc.

- (b) GST invoice or equivalent document, if applicable.
- Note- 01

If the supplier fails to furnish necessary supporting documents i.e. GST/Customs invoices etc. in respect of the Duties/taxes/Cesses which are creditable to BSNL, the amount pertaining to such Duties/Taxes/Cesses will be deducted from the payment due to the firm. Payment against GST credit will be made only when GST compliant invoice is submitted by the supplier.

Note-02:

Submitting fake / forged documents towards meeting eligibility criteria such as experience capability, supply proof, registration with Goods and Services Tax, Income Tax departments etc and as supporting documents towards other terms & conditions with the bid to meet terms & condition of tender.

ANNEXURE-I

MODEL FORM OF BG FOR EMD

Whereas	hereinafter called "the Contractor(s)
"has submitted its Tender dated for	
(Name of Work) KNOW ALL MEN by these presents that W	/E
of	having our registered office at
(hereinafter called "the Bank") are bou	nd unto
(hereinafter calle	ed "the B.S.N.L.") in the sum of
for which payment will and truly to I	be made of the said B.S.N.L., the Bank binds
itself, its successors and assigns by the these presents.	

THE CONDITIONS of the obligation are :

1- If the Contractor(s) withdraws its tender during the period of Tender validity specified on the Tender Form, or

2- If the Contractor(s) having been notified of the acceptance of its Tender by Bharat Sanchar Nigam Limited during the period of Tender validity.

a) Fails or refuses to execute the Contract.

b) Fails or refuses to furnish Security Deposit in accordance with the conditions of Tender document. We undertake to pay to Bharat Sanchar Nigam Limited upto the above amount upon receipt of its first written demand, without B.S.N.L. having to substantiate its demand, provided that in its demand B.S.N.L. will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions specifying the occurred condition or conditions. The guarantee will remain in force as specified in the Tender Document upto and including Thirty (30) days after the period of the Tender validity, and any demand in respect thereof should reach the Bank not later than the specified date/dates.

Signature of the Bank Signature of the Witness

Name of witness Address of witness

ANNEXURE-II

MODEL FORM OF PERFORMANCE GUARANTEE

BANK GUARANTEE BOND FOR PERFORMANCE GUARANTEE FOR ELECTRICAL INSTALLATION/O & M/ AIR CONDITIONING, DIESEL ENGINE ALTERNATOR, LIFTS AND SUB-STAITION WORKS etc. for

(Name of work) and

Whereas ------ (here in after called" the Contractor(s)" has submitted its Tender dated _______ for _____ (Name of work) and Whereas------(here in after called" the Contractor(s)" has been communicated the acceptance of

its tender dated ______for_____(Name of work)vide letter No. ______dated _____dated ______

KNOWN ALL MEN by these presents that We______of _____having our registered office at _______(here in after called "the BSNL") in the sum of _______for which payment will and truly to be made of the said BSNL,the Bank binds itself, its successors and assigns by these presents.

- i) 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 contractor(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_____.
- ii) 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.
- iii) 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 TWO/TWO AND HALF/THREE YEARS(as specified in the agreement) from the date hereof, we shall be discharged from all liabilities under this guarantee thereafter.
 - iv) We (name of the bank)_______further agree with the BSNL that the BSNL shall have the further 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 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.
 - v) This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/supplier(s).
 - vi) We (name of the bank)_____lastly undertake not to revoke this guarantee during its currency expect with the previous consent of the BSNL in writing .

For

Dated_____ day of _____

(Indicate the name of bank)

"NO RELATIVE WORKING IN BSNL" CERTIFICATE

(To be uploaded with Eligibility conditions)

I	S/o	R/o

here by certify that none

of my relative(s) as defined below is/are employed 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 absolute right to take any action as deemed fit/without any prior intimation to me.

- (i) Near relatives of all BSNL employees either directly recruited or on deputation are prohibited from participation in tenders and execution of works in the different units of BSNL. The near relatives for this purpose are defined as :
- 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) & 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)
- (i) The company or firm or any other person is not permitted to tender for works in BSNL Unit in which his near relative(s) is (are) posted. The unit is defined as SSA / Circle / Chief Engineer / Chief Archt./ Corporate office for non-executive employees and all SSA in a circle including circle office / Chief Eng./ Chief Archt./ Corporate office for executive employees (including those called as Gazetted officers at present). The tenderer should give a certificate that none of his/her such near relative is working in the units as defined above where he is going to apply for tender / work, for proprietorship, partnership firms and limited company certificate shall be given by the authorized signatory of the firm. Any breach of these conditions by the company or firm or any other person, the tender/work will be cancelled and earnest money/performance guarantee will be forfeited at any stage whenever it is so noticed. BSNL will not pay any damages to the company or firm or the concerned person. The company or firm or the person will also be debarred for further participation in the concerned unit.

(Dated Signature of contractor)

(Seal of the firm)

PROFORMA FOR AFFIDEVIT REGARDING EPF/ ESI PROVISIONS

(To be uploaded with Eligibility conditions)

(I)

* EPF and Miscellaneous provisions Act, 1952 (amended upto date) is not applicable to my / our establishment.

* I / We shall produce EPF registration certificate within 15 days, from the date of issue of intimation from BSNL regarding intent to accept the tender. In case I / We fail to produce the said document within the prescribed time frame, BSNL shall have the right to forfeit the whole Earnest Money and cancel the tender and further I / We will not participate in the next tender for the same work.

(II) * ESIC Act, 1948 (amended upto date) is not applicable to my / our establishment.

* I / We shall produce ESIC registration certificate within 15 days, from the date of issue of intimation from BSNL regarding intent to accept the tender. In case I / We fail to produce the said document within the prescribed time frame, BSNL shall have the right to forfeit the whole Earnest Money and cancel the tender and further I / We will not participate in the next tender for the same work. In case at my stage, it is found that the information given by me is false / incorrect, BSNL shall have the absolute right to take any action as deemed fit, without any prior intimation to me.

* (Strike out whichever is not applicable)

(Dated Signature of contractor)

(Seal of the firm)

UNDERTAKING (To be uploaded with Eligibility conditions) VENDOR GST DETAILS

А	Vendor Name	
В	Type of vendor i.e. whether registered or unregistered	
С	State wise registration address of the vendor (In case vendor has presence in multiple states)	
D	State of registration along with PIN code	
Е	PAN No. of vendor	
F	GSTIN No. of registered vendor (If registered in multiple states, then listing all GSTINs) under which invoices are raised by vendor	
G	Status of vendor i.e. SEZ, EOU, DTA, Government, Local authority	
Н	List of goods and services provided by vendor	
Ι	HSN code for goods/SAC for services supplied by vendor	
J	GST compliance rating (Optional)	
K	Whether supply is exempt/non taxable	
L	Whether reverse charge scheme is applicable. (Yes/No)	
Μ	Whether compounding scheme applicable (Yes/No). In case purchase is from dealers under composition scheme GST cost will be inbuilt in supply and vendor will not charge GST separately	
Ν	Whether TDS applicable (Yes/No)	
0	Email address of vendor	
Р	Phone Nos. of vendor	

(Seal of the firm)

(Dated Signature of Contractor)

Declaration by Contractor for EW-6, EW-8

(To be submitted with Eligibility conditions)

I / We do hereby undertake to have gone through the terms & conditions / clauses of all the tender documents including Form EW-06, EW-08 being adopted by the BHARAT SANCHAR NIGAM LIMITED (Electrical Wing) & agree to abide by the same.

In case of failure to comply as above, our offer will stand withdrawn and our tender documents would not be opened by the tender opening officer. The decision of tender opening officer in this regard shall be final & binding on me.

Signature of contractor/authorized representative With seal of the firm

PROFORMA FOR AFFIDEVIT REGARDING registration under Himachal Pradesh GST ON NON- JUDICIAL STAMP PAPER OF Rs. 100/-(To be uploaded with Eligibility conditions)

Ison	of
Resident of	hereby give
an undertaking that:	

I / We shall get registered under the Himachal Pradesh GST in the prescribed format within 05 days, from the date of issue of intimation from BSNL regarding intent to accept the tender. In case I / We fail to produce the said document within the prescribed time frame, BSNL shall have the right to forfeit the whole Earnest Money and cancel the tender and further I / We will not participate in the next tender for the same work. In case at my 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.

(Dated Signature of contractor)

(Seal of the firm)

GSTN DETAILS OF BSNL

	Description	Details
A	Legal & trade Name	Bharat Sanchar Nigam Limited
В	Type of vendor i.e. whether registered or unregistered Registered	Registered
C	State wise registration address of the vendor (In case vendor has presence in multiple states)	O/O the Chief General Manager BSNL, HPTC, Block No. 11, SDA Complex, Kasumpati, Shimla 171 009 (HP) D State of registration along with PIN code Himachal Pradesh 171009
D	PAN No. of vendor	AABCB5576GF
E	State of registration along with PIN code	Himachal Pradesh 171009
F	GSTIN No. of registered vendor (If registered in multiple states, then listing all GSTINs) under which invoices are raised by vendor	02AABCB5576G3ZV
G	TIN under VAT	02011200359
Н	H Service Tax Registration No	AABCB5576GSD816
I	Corporate Identity Number (CIM)	U74899DL2000GOI107739
J	Status of vendor i.e. SEZ, EOU, DTA, Government, Local authority	Public Sector Undertaking
К	List of goods and services provided by vendor	Telecommunication services
L	HSN code for goods/SAC for services supplied by vendor	HSN CODE 85176230, 85235210 SAC CODES 00440398, 00440229, 00440406
М	GST compliance rating (Optional	
N	N Whether supply is exempt/non taxable	No
0	Whether reverse charge scheme is applicable. (Yes/No)	NO
. P	Whether compounding scheme applicable (Yes/No).	NO
Q	In case purchase is from dealers under composition scheme GST cost will be inbuilt in supply and vendor will not charge GST separately	NO
R	Email address of vendor	Bsnlgst.hp@gmail.com

PROFORMA OF SCHEDULES (Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities (as per BSNL -8)

As Per Page No. 23 to 24

SCHEDULE 'B'

Schedule of material to be issued to the contractor.

1.			Nil		
1	2		3	4	5
S.No.	Description	of item	Quantity	Rates of figures & works at which the material will be charged to the contractor	Place of issu

SCHEDULE 'C'

Tools and plants to be hired to the contractor

		NIL	
1	2	3	4
S.No.	Description	Hire charges per day	Place of issue

SCHEDULE 'D'

SCHEDULE 'E'

Schedule of component of Materials, Labour etc. for escalation.

CLAUSE 10CC

Component of materials expressed as percent of total value of work. "X" = <u>NIL</u>				
Component of labour expressed as percent of total value of work.	"Y" = <u>NIL</u>			
Component of P.O.L. expressed as percent of total value of work.	"Z" <u>= NIL</u>			

SCHEDULE "F"

Reference to General Conditions of contract.

Name of Work:- Repairing of Electrical Installation & other associated work of BTS Station at Khirididhar (HP).

Estimated cost of work: Rs 30203.00

Earnest money: Rs. 604.00

Performance guarantee: 5% of Contract Value in the form of bank guarantees (of a Nationalized / Schedule 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 bank guarantee shall be One Year from the date of actual completion of work (**Ref. Page no. 86 of BSNL EW-8 for individual work**)

Security Deposit: In addition to performance guarantee 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 Contract value of the work. The amount shall be refunded after One Year from the actual date of completion of work.

& DIRECT	TIONS Maximum percentage for quanti of items of work to be executed Beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3.	ty As per clause 12 of Important Note For Contractors (page 15)
Direction :		
2(v) E	ngineer-in-Charge	Sub Divisional Engineer (E) BSNL Electrical Sub Division Dharamshala (HP)
2(viii) A	Accepting Authority	SDE (E) BSNL ESD Dharamshala (HP)
2(x) F	Percentage on cost of materials and labour to cover all overheads and profits.	10%
2(xi) E	Department	Bharat Sanchar Nigam Ltd.
2(xii) S	Standard Schedule of Rates	DSR-2014
()	Standard CPWD Contract form	BSNLEW form 7/8 as modified & corrected upto date
Clause 2 Clause 5	Authority for fixing Compensation under clause 2. Time allowed for execution of work.	Superintending Engineer (E.) 7 days from 5 th day of the
		date of written orders to commence the work .
	Authority to give fair and reasonable stension of time for completion of work	Executive Engineer (E)
Clause 7	Gross work to be done together with net payment/ adjustment of advance for materials collected, If any, since the last such payment for being	
Clause 11	eligible to interim payment.	FIVE THOUSAND
	Specifications to be followed for execution of work.	AS PER SPECIFICATION ATTACHED & CPWD
Clause 12 12.1(rates for additional, altered or substituted items that cannot	
12.1	be determined under 12.1(i) & (ii)(iii) Plus/minus the % over the rate entered in the schedule of rates.	DSR-2016
12.1(25% and can be extended up to 50% in urgent nature as per clause 13(a) & (b)

GENERAL RULES:

Officer inviting tender

Sub Divisional Engineer (E)

		apply and clauses 12.2 & 12.3	Page16
		shall apply	
12.	.1(vi)B		
	(a)	Limit for value of any item of any individual trade beyond which sub-clauses (i) to (v) shall not apply and clauses 12.2 & 12.3 shall apply	do
Clause 16		Competent Authority for	
		deciding reduced rates.	S.E.(E), B.S.N.L., Electrical Circle,
		SHIMLA.	
Clause 36			
	(i)	Minimum Qualification & experience required for Principal Technical Representative.	
	(a)	For works with estimated cost	
		put to tender more than	
		(i) Rs. 10 Lacs for Civil work	Graduate or retired AE possessing
		(ii) Rs. 5 Lacs for Elect./Mech. Works	at least recognised diploma.
	(b)	For works with estimated cost	
		put to tender	
		(i) More than Rs. 5 Lacs but less	
		than Rs. 10 Lacs for Civil Works.	Recognised Diploma holder.
		(ii) More than Rs. 1 Lacs but less	Elect / Mech
		than Rs. 5 Lacs for Elect./Mech. Works.	
	(c)	Discipline to which the	Elect/ Mech.
	(-)	Principal Technical	
		Representative should belong.	
	(d)	· · ·	2 1/02/0
	(d)	Minimum experience of works.	3 years.
	(e)	Recovery to be effected from the	Rs. 4,000/- p.m. for Graduate
		contractor in the event of not	Rs. 2,000/- for diploma holder
		Fulfilling provision of clause 36(i)	
Clause	9 42		
	(i)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi	N.A
		Schedule of Rates printed by C.P.W	/.D.
	(ii)	Variations permissible on theoretical qua	antities.
		 (a) i) Cement for works with estimated cost put to tender not more than Rs. 5 Lacs. 	N/A.
		ii) for works with estimated cost put to tender more than Rs. 5 Lacs.	N/A.
		(b) Bitumen all works.	N/A
		(c) Steel Reinforcement and structural so sections for each diameter, section a category.	
		(d) All other materials.	Nil
		NIT NO:- 02/SDE/E/BSNL/ESI	

SI N	NoDescription of item	Rates in figures and words at which recovery shall be made from the Contractor			
		Excess beyond permissible variation	less use beyond the permissible variation		
1. 2. 3. 4. 5.	Cement Steel Reinforcement Structural Sections Bitumen issued free Bitumen issued at stipulated fixed price.	N.A.			

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Name of work:-	Repairing of Electrical Install	lation & other	associate	d work o	f BTS Station at
	Khirididhar (HP).				

	Khirididhar (HP).					
Sr. .No	Description Of Items	C	Qty	Rate	Unit	Amount
1	Supplying & Fixing of following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, 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)					
1.1	6 way (6 + 18), Double door .	1	No		Each	
2	Supplying and fixing following rating, 415 V,10 KA, "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.					
2.1	32 A Triple pole	2	Nos.		Each	
2.2	40 A Triple pole	1	Nos.		Each	
2.3	63 A 4 pole	1	No		Each	
3	Supplying & Fixing 63 A Four pole in sheet steel enclosure side handle operated on Load Change Over switch suitable for operation on 415 Volt, 50 Hz supply i/c inter connection complete as required at site. (M/s Havells Model IHBFFE0063 or Equivalent Similar Superior make)	1	No		Each	
4	Supplying & Fixing 63 A suitable for operation on 415 volt 50Hz Porcelain Fuse Carrier & Base i/c testing & commissioning complete as required at site. (M/s Havells or Equivalent similar Superior Make.)	3	No		Each	
5 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) 25 mm Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/	12	Mtrs		Mtrs	
6.1	a) 4x4 sqmm	5	Mtrs		Mtrs	
6.2	b) 4x6 sqmm	4	Mtrs		Mtrs	

TOTAL Rs.

Signature with Seal of Firm)

Sub Divisional Engineer (E) BSNL Electrical Sub División Dharamshala - 176215

SPECIFICATION FOR EARTHING

SCOPE:-1.0

This chapter covers the essential requirement of earthing system components and their installation. This shall be read with which lays down criteria for their design. For details not covered in these specifications, IS Code of Earthing (IS : 3043-1987) shall be referred to.

1.1. **APPLICATION:-**

- The electrical distribution system in the department is with earthed neutral (i.e., neutral earthed at the (i) transformer/generator end). In addition to the neutral earthing, provision is made for earthing the metallic body of equipment's and non-current carrying metallic components in the sub-station, as well as in the internal/external electrical installations.
- Earthing system is also required for lightning protection, computer installations and for functional (ii) reasons.
- (iii) Earthing requirements are laid down in Indian Electricity Rules, 1956, as amended from time to time, and in the Regulations of the Electricity Supply Authority concerned. These shall be completed with.
- Though this chapter form part of the Specifications for Internal EI works, these requirements shall be (iv) complied with in works of earthing for other applications also. 1.2.
 - MATERIALS.

EARTH ELECTRODES. 1.2.1.

1.2.1.1. TYPES:-

The type of earth electrode shall be any of the following, as Specified (For selection criteria in designs)

- Pipe earth electrode. (a)
- Plate earth electrode. (b)
- Strip or conductor earth electrode. (c)

1.2.1.2. Electrode materials and dimensions:-

- (i) The materials and minimum sizes of earth electrodes shall be as per table VIII.
- GI pipe electrodes shall be cut tapered at the bottom, and provided with holes of 12mm dia, drilled (ii) not less than 7.5cm from each other upto 2m of length from the bottom.
- The length of the buried strip or conductor earth electrode shall be not less than 15m. This length (iii) shall suitably be increased if necessary, on the basis of the information available about soil resistance, so that the required earth resistance is obtained. Prior approval of the Engineer-in-charge shall be taken for any such in-crease in length.

1.2.2. **EARTHING CONDUCTOR:-**

- The earthing conductor (protective conductor from earth electrode upto the main earthing (i) terminal/earth bus, as the case may be) shall be of the same material as the electrode, viz, GI or copper, and in the form of wire or strip as specified.
- The size of earthing conductor shall be specified, but this shall not be less than the following (For (ii) calculating the size of the earthing conductor in design).
- 5mm dia (6SWG) for GI, or 4mm dia. (8SWG) for copper wire. (a)
- (b) 25mmx4mm in the case of GI strip, or
- 20mmx3mm in the case of copper strip. (c)
- (iii) Earthing conductor larger that the following sectional areas need not be used, unless otherwise specified.
- 150 Sq.mm. in case of GI in case of GI, (a)
- or. 100 Sq.mm. in the case of copper strip. (b)

1.2.3. EARTH BUS:-

- Two copper strips, each of size 50mmx5mm shall be provided as earth bus in a 11KV sub-station (i) and/or diesel generating station irrespective of the capacity of the transformer or the D.G. set. Each of these strips shall be connected to an independent earth electrode. The two earth leads from the body of each transformer/panel/generating set etc. shall be connected to these two strips of earth bus. The two strips of the earth bus shall be bonded together.
- (ii) The neutral earth leads of the transformer and/or generator alternator shall not be connected to this earth bus. They shall be connected directly to individual earth electrodes.

1.2.4. HARDWARE ITEMS:-

All hardware items used for connecting the earthing conductor with the electrode shall be of GI in the case of GI pipe and GI Plate earth electrodes, and forged tinned brass in case of copper plate electrodes.

1.2.5. PROTECTIVE (Earth continuity Loop Earthing) CONDUCTOR:-

- (i). The material and size of protective conductors shall be as specified.(For criteria in design of these)
- (ii). The minimum cross sectional area of a protective conductor (not contained within a cable or flexible cord) shall be: (a). 2 mm dia. (14 SWG) in case of copper.

 - (b). 2.5 mm dia. (12 SWG) in case of GI,or.
 - (c). 2.24 mm dia (13 SWG) in case of Aluminum.
- (iii). Unless otherwise specified, GI conductor should not be ordinarily used as protective conductor within any circuit, beyond a DB downstream.

1.3. LOCATION FOR EARTH ELECTRODES:-

- (i). normally an earth electrode shall not be located closer than 1.5 m from any building. Care shall be taken to see that the excavation for earth electrode does not affect the foundation of the building, in such cases; electrodes may be located further away from the building, with the prior approval of the Engineer-in-charge.
- (ii). The location of the earth electrode will be such that the soil has a reasonable chance of remaining moist as far as possible. Entrances, payments and road ways, should be avoided for locating earth electrodes.
- 1.4

1.5 **INSTALLATION.**

1.4.1. ELECTRODES.

1.4.1.1. Various types of electrodes:-

(i) (a) Pipe electrode shall be buried in the ground vertically with its top at not less than 20cm below the ground level.

(b) In locations where the full length of pipe electrode is not possible to be installed due to meeting a water table, hard soil or rock, the electrode may be to reduced length, provided the required earth resistance result is achieved with or without additional electrodes, or any alternative method of earthing may be adopted, with the prior approval of the Engineer-in-charge. Pipe electrodes may also be installed in horizontal formation in such exceptional cases.

(ii) Plate electrode shall be buried in ground with its faces vertical, and its top not less than 3 m below the ground level.

(iii) When more than one electrode (plate/pipe) is to be installed a separation of not less than 2m shall be maintained between two adjacent electrodes

(a) The strip or conductor electrode shall be buried in trench not less than 0.5m deep.

(b)If conditions necessitate the use of more than one strip or conductor electrode, they shall be laid as widely distributed as possible, in a single straight trench where feasible, or preferably in a number of trenches radiating from one point.

(c) If the electrode cannot be laid in a straight length, it may be laid in a zigzag manner with a deviation up to 45 degrees from the axis of the strip. It can also be laid in the form of an arc with curvature more than 1m or a polygon.

1.4.1.2. A

Artificial treatment of soil:-

When artificial treatment of soil is to be resorted to, the same shall be specified in the schedule of work. The electrode shall be surrounded by charcoal / coke and salt as indicated. In such cases, excavation for earth electrode shall be increased as per dimensions indicated in these figures.

1.4.1.3. Watering arrangement:-

- (i) In the case of plate earth electrodes, a watering pipe 20mm dia. medium class pipe shall be provided and attached to the electrodes as shown in gif. 4 and 5. A funnel with mesh shall be provided on the top of this pipe for watering the earth.
- (ii) In the case of pipe electrodes, a 40mm x 20mm reducer shall be used for fixing the funnel with mesh.
- (iii) The watering funnel attachment shall be housed in a masonry enclosure of size not less than 30cm x30cmx30cm.
- (iv) A cast iron/MS frame with MS cover, 6mm thick, and having locking arrangement shall be suitably embedded in the masonry enclosure.

1.4.2.

EARTHING CONDUCTOR (Main earthing lead):-

- (i) In the case of plate earth electrode, the earthing conductor shall be securely terminated on to the plate with two bolts, nuts, check nuts and washers.
- (ii) In the case of pipe earth electrode, wire type earthing conductor shall be secured using a through bolt, nuts and washers and terminating socket.

A double C-clamp arrangement shall be provided for terminating tape type earthing Conductor with GI watering pipe coupled to the pipe earth electrode. Galvanized "C" Shaped strips, bolts, washers, nuts and checkouts of adequate size shall be used for the purpose

(iii) The earthing conductor from the electrode upto the building shall be protected from mechanical injury by a medium class, 15mm dia. GI pipe in the case of wire, and by 40mm dia, medium class buried at least 30cm deep (to be increased to 60cm in case of road crossing and pavements). The portion within the building shall be recessed in walls and floors to adequate depth in due co-ordination with the building work.

(iv) The earthing conductor shall be securely connected at the other end to the stub/earth bar provided on the switch board by:

(a) Soldered or preferably crimped lug, bolt, nut and washer in the case of wire, and,

(b) Bolt, nut and washer in case of strip conductor.

In the case of substations or alternators, the termination shall be made on the earthing terminal of the neutral point on the equipment and/or the earth bus, as the case may be.

1.4.3. EARTH BUS AND MAIN EARTHING TERMINAL:-

- (i) In the case of substations and generating stations, two numbers copper/GI (as specified) earth bus shall provided, duly connected to two numbers of independent electrodes, exclusively for equip0ment (body) earthing of substation or generating station equipments.
- (ii) In all other installations, main earthing terminal shall be provided at the main switch board. This may be in the form of earth stud or single earth bar depending on the type of the switch board.
- (iii) Following conductors shall be terminated on to the main earthing terminal.
- (a) Earth connection from electric supply company (where provided).
- (b) Earthing conductor from electrode.
- (c) Protective conductors.
- (d) Equipotential bonding conductors.

1.4.4. PROTECTIVE(Loop earthing/earth continuity) CONDUCTOR:-

- (i) Earth terminal of every switch board in the distribution system shall be bonded to the earth bar/terminal of the upstream switch board by protective conductor (s).
- (ii) Two protective conductors shall be provided for a switch board carrying a 3 phase switch gear thereon.
- (iii) All the mountings of industrial type switch boards shall be bonded to the earth stud/earth bar using a protective conductor looping from one to another. Loop earthing of individual units will not be however necessary in the case of cubicle type switchboards.
- (iv) The earth connector in every distribution board (DB) shall be securely connected to the earth stud/earth bar of the corresponding switch board by a protective conductor.
- (v) All metallic switch boxes and regulator boxes and regulator boxes in a circuit shall be connected to the earth connector in the DB by protective conductor (also called circuit protective or loop earthing conductor), looping from one box to another upto the DB.
- (vi) The earth pin of socket outlets as well as metallic body of fan regulators shall be connected to the earth stud in switch boxes by protective conductor. Where the switch boxes are of non-metallic type, these shall be looped at the socket earth terminals, or at an independent screwed connector inside the switch box. Twisted earth connections shall not be accepted in any case.
- (vii) Double earthing strips in rising mains, bus trucking etc. shall be securely connected to the earth bar/earth stud at the sending end switch board. In the case of overhead bus bar systems, protective conductor shall be provided in addition to feeder cable armoring connection.

1.5. EARTH RESISTANCE:-

- (I) The earth resistance at each electrode shall be measured. No earth electrode shall have a greater ohmic resistance than 5 ohms as measured by an approved earth testing apparatus. In rocky soil the resistance may be up to 8 ohms.
- (II) Where the above stated earth resistance is not achieved, necessary improvement shall be made by additional provisions, such as additional electrode (s), different type of electrode, or artificial chemical treatments of soil etc., as may be directed by the Engineer-in-charge.

In addition to the above (I) The earthing is to be got A/T'ed in the presence of representatives of A/T wing or any other nominated authority as per A/T Schedule till the final results are achieved. The testing equipment required that at site shall be arranged by the contractor without any extra charges.

1.6 MARKING:-

- (i) Earth bars/terminals at all switch boards shall be marked permanently, either as "E" or as.
- (ii) Main earthing terminal shall be marked "SAFETY EARTH- DO NOT DISCONNECT".

1.7. USE OF RESIDUAL CURRENT DEVICES (RCDs):-

An extract on selection and application of RCDs (also known as RCBs) from IS:12640-1988 is given Appendix H. Provision of RCD shall be specified in individual cases keeping in view the type, use, importance, system of earthing and nature of electrical installations to be protected by the RCCBs, requirements of the local electric supply company, etc. The sensitivity shall be 30mA, 100mA, 300mA, or 500mA as specified.

		[0.0			
Type of Electrode		Material	Size		
Pipe	GI M	edium Class	40 mm dia 4.5 m long (Without any joint)		
Plate	(i)	GI	600 mm x 600 mm x 6 mm thick		
	(ii)	Copper	600 mm x 600 mm x 3 mm thick		
Strip	(i)	GI	100 Sq.mm section.		
	(ii)	Copper	40 Sq.mm section		
Conductor	(i)	GI	5 mm dia (6 SWG)		
	(ii)	Copper	4 mm dia (8 SWG)		

TABLE VIII MATERIALS AND SIZES OF EARTH ELECTRODES [Clause 1.2.1.2(i)]

Note:- Galvanization of GI items shall conform to class IV of IS: 4736-1986

ADDITIONAL SPECIFICATION

- 1. The work shall be done as per current CPWD specification 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 Supervisor.
- 3. The layout of the work will be given by the Engineer-in-charge or his duly authorized representative at site of work.
- 4. Unapproved materials if brought to site of work shall have to be removed immediately by contractor at his cost and risk.
- 5. The contractor shall submit the completion plan as per Clause 8.2, of the agreement within 30 days of the completion of work. Failing to submit the completion plan, he will be liable to pay a sum equivalent to 2.5% of the value of work subjected to the ceiling of Rs.15000/- as per the clause-8.3 of agreement.
- The contractor will have to give the following tests at his cost & intimate test results before final bills are paid. Nothing extra will be paid to him on this account.
 a) Forth test
 b) Polarity test

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a) Earth test. b) Polarity test. c) Insulation test. d) Earth continuity test.
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- Any damage done to the building by the contractor during the execution of work shall have to be made good at his cost and risk. If he does not do it himself within a reasonable time as determined by the Executive Engineer (E) then the same will be got done at his cost departmentally after giving notice to him.
- 8. While making the end connections of wires, no strand shall be cut and the termination of wire shall be done with necessary lugs and ferrules without any extra payment.
- 9. Lugs should be provided while terminating of 6 SWG G.I. wires for earth continuity without any extra payment.
- 10. The contractor shall furnish the test certificate of manufacturer in triplicate for all equipment.
- 11. The final completion plans, general arrangement drawings and wiring diagram shall be supplied in triplicate before commissioning the installation.
- 12. The firm shall furnish the guarantee for all the equipment against defective materials of manufacturing defects and workmanship etc. for a period of twelve months from the date of commissioning and handing over of the installation for regular use.
- 13. Wherever electrical termination, connections are made between dissimilar metals like copper and aluminums suitable size bimetal strips, washer shall be used. It will be responsibility of the contractor to get approval of Drawing from competent authority before start of work without any extra cost. Nothing will be paid on this account
- **14.** All the Material to be supplied shall be as per approved product directory.

LIST OF APPROVED MAKES- BSNL ELECTRICAL WING

22	Centrifugal Pump	Amrut / BE / Beacon / Batliboi /
S. No.	Item	Makes
1	Engine	Ashok Leyland /Cummins/ Cater pillar / KOEL/ Volvo Penta / Mahindra & Mahindra (up to 40 KVA) /Escorts (up to 30 KVA)/ Eicher (up to 20 KVA)
2	Alternator(Brushless)	Crompton Greaves (AL. series) / KEC / Leroy Somer / Stamford/Jyoti Ltd
3	Battery (Lead Acid / Mntc. Free)	Amara Raja / AMCO / Farukawa / Hitachi / Exide/ Prestolite / Standard
4	HV Switchgear (Vacuum Circuit Breaker/SF6)	Biecco Lawrie / Crompton / Kirloskar / MEI / Jyoti Ltd
5	Transformer (Oil filled / Dry type) a) Above 400 KVA /	ABB / Schneider Electric /Andrew Yule / Bharat Bijlee / Crompton / EMCO / Kirloskar /Siemens
	b) Up to 400 KVA	In addition to above makes, Uttam/Automatic Electric Gear(AEG)/Patson/Rajasthan Transformer and Switchgear
6	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
7	MCCB (Ics=Icu)	L&T/ Schneider Electric / Siemens
8	SDF units	L&T/ Schneider Electric / Siemens/ HPL/Havells
9	Power Contactors	L&T/ Schneider Electric / Siemens/ Lakshmi (LECS)
10	Change Over Switch	HPL / 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

		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 / Pilkingston / UP Twiga
33	Expanded Polystyrene	BASF(India) Ltd.
34	Gauge	Feibig / H.Guru / Pricol
35	Controls	FLICA / Honeywell / Indfoss / Penn- Danfoss / Ranco / Ranutrol / Sporland
36	Fine Filters	Anfiltra Effluent / ARW / Athlete/ Airtake/ Dyna / Kirsloskar/ Puromatic/ Purafill/ Purolator / Tenacity
37	GI Sheet Essar /Notified	HSU Jindal / National / Nippon Denro / Sail / Tata
38	Heat Detector	Appollo / Chemtron/ Edward / Fenwal/ Hochiki / Nitton /System Sensor/ Wormald/Honeywell
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
44	Lift	OTIS, Kone, Mitsubishi , Schindler, Johnson

NOTE:- Items which are approved from O/o PGM(E) BSNL New Delhi till last date of sale of tender, shall also be accepted.

(Dated Signature of Contractor)