

NIT NO. : 35/BSNL/ED/DMP/2018-2019

Name of Work: Providing Electrical installation and other miscellaneous works for Telepresence Studio under UNMS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.

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This tender document contains [71pages only].

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

(Electrical Wing)

Office of Executive Engineer (E)

BSNL Electrical Division,

DIMAPUR

**TENDER DOCUMENT**

**Name of Work: Providing Electrical installation and other miscellaneous works for Telepresence Studio under UNMS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.**

Name of the Agency \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Telephone No: \_\_\_\_\_

This tender document contains **71 (Seventy One)** pages only.

Signature of the Tender issuing Officer

**Executive Engineer (E)**  
**BSNL Electrical Division,**  
**Dimapur.**  
(For and behalf of BSNL)

**Bharat Sanchar Nigam Limited**  
**(A Govt. of India Enterprise)**  
 (Electrical Wing)  
 Office of Executive Engineer (E)  
 BSNL Electrical Division,  
 DIMAPUR



**NOTICE INVITING e-TENDER (EW-6)**

The Executive Engineer (E), BSNL Electrical Division, Dimapur, invites Item Rate E-Tenders from eligible Firms / Contractors (to be evaluated as per the eligibility criteria specified hereunder) for the following work :-

1.	NIT No.	35/EEE/BSNL/DMP/NIT/2018-19
2.	Name of Work	<b>Providing Electrical installation and other miscellaneous works for Telepresence Studio under UNMS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.</b>
3.	Estimated Cost put to tender	<b>Rs.5,76,298/-</b>
4.	Earnest Money	<b>Rs.11,526/-</b>
5.	Cost of Bid Document	<b>Rs. 590/-</b>
6.	e-Tender Processing Fee	<b>Rs. 590/-</b>
7.	Period of completion for individual work	<b>2(Two) Months from the date of completion of Civil works.</b>
8.	Last date & Time of <b>on line submission</b> of Eligibility documents & Bid documents	<b>Up to 16.00 Hrs. on 01.05.2019.</b>
9.	Last date & Time for submission of Cost of bid document, EMD, Processing Fee and Eligibility documents as per NIT ( <b>OFF LINE</b> )	<b>Up to 11.00 Hrs. on 02.05.2019.</b>
10.	Time & date of opening of sealed envelope containing EMD, cost of Bid document Processing Fee and Eligibility documents as per NIT of intending bidders in Division office. ( <b>OFF LINE</b> )	<b>At 12.00 Hrs. on 02.05.2019.</b>
11.	Time & Date of Opening of the Bid- <b>ON LINE ONLY</b>	<b>At 12.30 Hrs. on 02.05.2019.</b>

## **A. ELIGIBILITY CRITERIA**

1. BSNL enlisted Class-II contractors or above in Electrical category

**OR**

2. The Contractor satisfying the following conditions:

2.1 The contractor enlisted in CPWD, M.E.S. and Railways in respective class as per their tendering limits

**AND**

Average annual turnover during the last three years, ending 31<sup>st</sup> March of the previous financial year, should be at least 30% of the estimated cost for electrical subhead.

**AND**

Experience of having successfully completed similar nature of works in Central Government/State Government /Central Autonomous Body /Central Public sector undertaking during last 7 year ending last day of month previous to the one in which applications are invited should be either of the following:-

i. Three similar successfully completed works costing not less than the amount equal to 40% of the estimated cost put to tender.

**OR**

ii. Two similar successfully completed works costing not less than the amount equal to 60% of the estimated cost put to tender

**OR**

iii. One similar successfully completed work costing not less than the amount equal to 80% of the estimated cost put to tender .

**Similar work means EI & Fans or combination of EI & Fans & other allied works.**

## **B. Important Notes:**

1. Self-Attested Documentary proof of satisfying the eligibility conditions as per 'A' above shall be submitted.
2. The Tenderer should submit valid GST registration Certificate as per GST Law (SGST/CGST/IGST as applicable), CA certificate for turnover, PAN card, EPF Registration certificate and ESI Registration certificate ( all documents shall be self-attested.)
3. The intending tenderer shall furnish the cost of Tender document in the form of Demand draft of a Scheduled Bank or Nationalized Bank/ State Bank guaranteed by Reserve Bank of India. The DD for **Rs.590/-** (Inclusive of GST) which is non-refundable, shall be drawn in favour of "**Accounts officer (Cash), O/o GMTD, BSNL, NAGALAND SSA, Dimapur.**"
4. The intending tenderer shall pay E-Tender Processing Fee – **Rs.590/-**(Inclusive of GST) to M/s ITI Limited through ON-LINE payment facility available at website [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL).
5. Earnest Money amounting to **Rs.11,526.00** in the form of demand draft/FDR/TDR/ CDR of a nationalized/scheduled bank guaranteed by the Reserve Bank of India, drawn in favour of "**Accounts officer**"

**(Cash), O/o GMTD, BSNL, NAGALAND SSA, DIMAPUR"** must accompany each tender. The Validity period of EMD is 120 days, from the date of opening of tender.

6. 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.
7. Exemption from payment of earnest money and security deposit by any other unit/ department shall not hold good for BSNL.
8. The EMD of the successful tenderer will be returned to the contractor without interest only after submission of performance guarantee and commencement of work. The successful tenderer has to extend the validity of EMD as per BSNL requirements.
9. The Bid documents 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 and other necessary documents, can be seen and downloaded from website [www.ne2.bsnl.co.in](http://www.ne2.bsnl.co.in) and [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL). However, for quoting the e-Tender visit [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL).
10. The bidding process will be accepted only through e-Tendering platform. As tenders are invited through e-Tendering process, physical copy of the tender document would **not be available for sale**. Contractor can upload documents in the form of JPG format, PDF format and any other format as permissible by the e-tendering portal.
11. General conditions of contract for works in BHARAT SANCHAR NIGAM LIMITED (BSNL EW-8) are available on BSNL website [http://electrical.bsnl.co.in/BSNL\\_EW-8.pdf](http://electrical.bsnl.co.in/BSNL_EW-8.pdf) as well as in the Division Office.
12. For e-Tendering, BSNL has engaged e-portal maintained by M/S ITI, Kolkata. The agency intending to participate in tendering process shall have to register with <http://www.Tenderwizard.com/BSNLKOL>, Kolkata. For details kindly visit website <http://www.tenderwizard.com/BSNLKOL> or contact for Local assistance **Mr Siddharth /Mrs.SaswatiMajumder Mob No: 09674758723/ 9674758722, email IDs: helpline1tenderwizard@gmail.com**
13. The intending bidders must have **Class-III** digital signature to submit the bid.
14. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheet.
15. Contractor can upload documents in the form of JPG format, PDF format and any other format as permissible by the e-tendering portal.
16. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow colour and moment rate is entered, it turns green. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" {Zero}.
17. The Bid can only be submitted after uploading the following scanned documents (all documents shall be self-attested)–

- 
- a. Documentary proof of satisfying eligibility conditions.(As per A of eligibility criteria.)
    - b. Copy of PAN card, valid GST registration, CA certificate for turnover, EPF Registration certificate (if applicable), ESI registration Certificate(if applicable)
    - c. Demand Draft of cost of tender documents.
    - d. EMD in prescribed form.
    - e. Compliance Statement (Annexure-I), Declaration by Contractor (Annexure-V), Undertaking to abide by EW 6 and EW 8 (Annexure-VI), Non Relative Certificate (Annexure-VII), Undertaking regarding EPF Provisions (Annexure-VIII), undertaking regarding ESI Provisions (Annexure-IX),
  - f. Tender submission format.
18. The agency shall submit Self-declaration that the agency is not black listed by GST authorities
19. The contractor shall submit the DD for cost of Bid documents, EMD in the prescribed form, and Eligibility documents as mentioned in para 17 above in a sealed envelope with mention of Name of work, date & time of opening of bids in a sealed bid box provided in the office of **Executive Engineer (Electrical), BSNL Electrical Division, DIMAPUR up to 11:00 Hrs on 02.05.2019** and shall be opened on **02.05.2019 at 12:00 Hrs.** in presence of AO, SDE [E-P] and contractors present.
20. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose Cost of Bid Document, Earnest Money Deposit and Eligibility documents as per NIT placed in the envelope are found in order. Also the scanned uploaded eligibility conditions of bidders meet the criteria.
21. After submission of the bid online the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
22. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
23. The bid submitted shall become invalid and cost of bid & e-tender processing fees shall not be refunded if:
- (i) The bidder is found ineligible.
  - (ii) The bidder does not upload all the documents as per para-17 above.
  - (iii) In case any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically in the office of tender opening authority.
24. Before e-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.
25. Agreement shall be drawn with the successful Tenderer on prescribed Form No. **BSNL EW-6/8**, which is available on BSNL website [http://electrical.bsnl.co.in/BSNL\\_EW-8.pdf](http://electrical.bsnl.co.in/BSNL_EW-8.pdf) for <http://www.Tenderwizard.com/BSNLKOL> Tenderer shall quote his rates as per various terms and conditions of the said form.
26. The time allowed for carrying out the work will be as mentioned above.

27. In case the eligibility credentials are found to be fake or falsified at any stage i.e. before award of work or during execution of the work or after completion of the work, the contractor will be debarred from tendering in BSNL for three years including any other action under the contract or existing law.

28. **Performance Guarantee (PG):** -The Firm shall have to furnish Performance guarantee @ 5% of the contract value within two weeks of the date of issue of award letter in the form of Bank guarantee on a Nationalized/Scheduled bank in standard format (Annexure-II)/ CDR/ FDR/ DD. This period can be further extended by the Engineer-in-Charge up to a maximum period of **2(two) weeks** on written request of contractor.

**This performanceguarantee shall be submitted to the Electrical Division in the name of concerned Accounts officer of the SSA where work is to be executed and shall be valid for 12months from the date of actual completion of individual work.**

29. **Security Deposit:**

A sum **@ 10%** of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum will amount to security deposit of 10% (i/c **5% PBG**) of the Tendered value of the agreement. This Security Deposit shall be released after an observation period of **12 months** after the date of completion of work.

30. The acceptance of a tender will rest with the **Superintending Engineer (E), BSNL, Electrical Circle, Shillong** 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.

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

32. 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.

33. 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 partners and in respect of a limited company by all the Directors of the company.

34. 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).

35. 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

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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. The format of the certificate to be given is enclosed (Annexure-VII).

36. No employee in BSNL/ Govt. of India is allowed to work as a contractor for a period of two years of his retirement from service without the prior permission. The contract is liable to be cancelled if either the 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.
37. The tender for the works shall not be witnessed by the contractor or contractors 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.
38. 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 with the officer concerned.
39. Any tender not submitted in proper manner or not as per the directions of ONLINE submission, BSNL will be at liberty to take such action as it may deem fit without any reference to the tenderer.
40. 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.
41. **Extension of tender 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.
42. The contractor should read the tender documents carefully before submitting the tender. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
43. 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 forms the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

(b) Standard BSNL EW-8 form.

44. **EPF PROVISIONS:** The agency has to comply with the provision of EPF and miscellaneous provisions Act - 1952 and employees Provident Fund scheme-1952 as amended up to date in respect of labours/employees engaged by them for this work. Any consequences arising due to non-complying of provisions as specified above shall be of the sole responsibility of the firm only. The agency shall give an undertaking to this effect as per the prescribed proforma (Annexure -VIII).
45. The site for the work shall be made available in parts.
46. If any terms and conditions mentioned in this NIT document are in contravention to BSNL EW6/EW 8 General Conditions of Contract, the terms and conditions mentioned in this document shall prevail.

**Executive Engineer (E)**

**For and on behalf of BSNL**

**No. 14/ EEE/BSNL/DMP/NIT/2019/173**

**Date: 15/04/2019**

Copy to: -

1. The Sr. Chief Engineer (E), BSNL Electrical Assam/NE Zone, Guwahati.
2. The General Manager, O/o the GMTD, Nagaland SSA.
3. The Superintending Engineer, BSNL Electrical Circle, Shillong.
4. The Vigilance Officer, O/o the CGMT, NE-II Circle, Dimapur
5. The Executive Engineer (Elect.), BSNL Electrical Division, Guwahati/Jorhat/Shillong/Agartala.
6. The Accounts Officer (E), BSNL Electrical Division, Dimapur
7. The AGM (IT), O/o The CGMT, NE-II Circle, Dimapur along with soft copy containing details of NIT for uploading in the website [www.ne2.bsnl.co.in](http://www.ne2.bsnl.co.in) for wider publication.
8. The Sub Divisional Engineer (E), BSNL Electrical Sub Division-I/II Dimapur/Imphal/Itanagar.
9. Notice Board.
10. All Eligible contractors.

**Executive Engineer (E)**  
**BSNL Electrical Division**  
**Dimapur**



**भारत संचार निगम लिमिटेड**  
( भारत सरकार का उपक्रम )  
**BHARAT SANCHAR NIGAM LIMITED**  
(A Govt. of India Enterprise)

**PRESS NOTICE [e-TENDER]**

**The Executive Engineer (E)**, *BSNL Electrical Division, GMTD Complex, Super Market, Dimapur* invites **ONLINE BIDS** on behalf of the Bharat Sanchar Nigam Limited for the work of “**Providing Electrical installation and other miscellaneous works for Telepresence Studio under UNMS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.**”

For further details visit:

**[www.nc2.bsnl.co.in](http://www.nc2.bsnl.co.in)&[www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL)**

For quoting the e-Tender visit **[www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL)**

**Executive Engineer (E)**

**CHECK LIST FOR THE TENDERER**

**IMPORTANT NOTE:** Before on line submitting the tender document, contractor must verify the check list properly.

NAME OF THE VENDOR		
Sl. No	Description	Submitted/Uploaded Yes/No
1	The Firms who fulfill the following requirements shall be eligible to bid	
	BSNL enlisted Class-II contractors or above in Electrical category.	
	Note:- Copy of Credentials as applicable for proof of eligibility prescribed shall be produced by the firm	
2	The intending bidder has to fill all the details such as Banker's name, Demand Draft/Fixed Deposit Receipt /Pay Order/ Banker's Cheque/Bank Guarantee number, amount and date for the following documents:	
	a) <b>Cost of Bid Document:</b> Demand draft amounting to <b>Rs. 590/-</b> (inclusive of GST) drawn in favour of " <b>Accounts officer (Cash), O/o GMTD, BSNL, NAGALAND SSA, DIMAPUR.</b> " payable at <b>DIMAPUR.</b> (Demand Draft only)	
	b) <b>E-Tender Processing Fee – Rs.590/-</b> (Inclusive of GST) shall be paid to M/s ITI Limited through their e-gateway by credit/debit card, internet banking facility through website www.tenderwizard.com/BSNLKOL On-line payment details:	
	c) <b>EMD</b> -amounting <b>Rs. 11,526.00</b> in the prescribed form as above. Earnest Money should be in the form of demand draft/TDR/CDR of a nationalized/scheduled bank guaranteed by the Reserve Bank of India, drawn in favour of " <b>Accounts officer (Cash), O/o GMTD, BSNL, NAGALAND SSA, DIMAPUR.</b> " must accompany each tender. The Validity period of EMD is 120 days, from the date of opening of tender.	
3.	Self-attested Copy of PAN card.	
4.	Self-attested Copy of valid GST registration	
5	Self-attested Copy of CA certificate for turnover.	
6	Self-attested copy of EPF Registration certificate (if	

	applicable).	
7	Self-attested copy of ESI Registration certificate (if applicable).	
8	Compliance Statement (As per Annexure-I )	
9	Declaration by Contractor(As per Annexure-V)	
10	Duly filled and signed Undertaking and to abide by EW6 and EW 8 (As per Annexure-VI).	
11	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 partners and in respect of a limited company by all the Directors of the company (As per Annexure-VII)	
12	Duly filled and signed undertaking regarding EPF Provisions (As per Annexure-VIII)	
13	Duly filled and signed undertaking regarding ESI Provisions. (As per Annexure-IX)	
	<p><b><u>Notes for Submission of Documents:</u></b></p> <ol style="list-style-type: none"> <li>1. The bidder shall have to down load the Tender Documents and again shall upload the documents with Digital Signature before the prescribed date and time. (Ref. Notice Inviting Tenders)</li> <li>2. The bidder shall submit the Original documents of DD towards cost of Bid documents and EMD in the prescribed form, and Eligibility documents (as per para 17 of NIT) <b>and tender submission format</b> in a sealed envelope mentioning Name of work, date &amp; time of opening of bids along with the name and address of the bidder in the Tender box in the office of <b>Executive Engineer (Electrical), BSNL Electrical Division, DIMAPUR</b> before the prescribed date and time (Ref. Notice Inviting Tenders )</li> <li>3. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose Cost of Bid Document, Earnest Money Deposit, and Eligibility documents (as per para 17 of NIT) placed in the envelope are found in order. Also the scanned uploaded eligibility conditions of bidders meet the criteria.</li> </ol> <p>For any further query regarding tender uploading/downloading Please visit <a href="http://www.tenderwizard.com/BSNLKOL">www.tenderwizard.com/BSNLKOL</a> or pl. contact <b>MrSiddharth/Mrs.SaswatiMajumder</b> Mob No: <b>09674758723/ 9674758722,emailIDs: helpline1tenderwizard@gmail.com</b></p>	

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## **INFORMATION FOR BIDDERS( e-TENDER)**

1. For e-Tender hosting purpose, BSNL has engaged e-portal maintained by M/s ITI Ltd. The agency intending to participate in tendering process shall have to register with <https://www.tenderwizard.com/BSNLKOL>
2. Those Contractors not registered on the website mentioned above, are required to get registered beforehand. The intending bidder can get registered with ITI Ltd. by making online payment of required amount with registration particulars. For details kindly visit website <https://www.tenderwizard.com/BSNLKOL> or contact Executive Engineer.
3. The intending bidder must have valid **Class-III digital signature** to submit the bid.
4. The intending bidder should read carefully and understand the tender document, procedure for e- tendering etc. completely before participating in the e-tender procedure. Participation in the e-tendering, presumes that the bidder (s) has/have read all the conditions, Special Conditions of the contract, Schedule of quantity etc. and agree/abide by them. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
5. The bid document consisting of BSNL EW 6, Specifications, Schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be compiled with and other necessary documents can be seen and downloaded from [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL) or [www.ne2.bsnl.co.in](http://www.ne2.bsnl.co.in) free of cost.
6. The bid can only be submitted after uploading the mandatory scanned documents as per NIT
7. Information and instructions for bidders posted on website shall form part of bid document.
8. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
9. Contractor can upload documents in the form of JPG format or PDF format.
10. Certificate of Financial Turnover: At the time of submission of bid, contractor may upload Affidavit/ Certificate from Chartered Accountant mentioning Financial Turnover of last 3 years or for the period as specified in the bid document`. There is no need to upload entire voluminous balance sheet.
11. Contractor must ensure to quote rate of each item. If any cell is left blank the same shall be treated as "0" (ZERO).
12. The intending bidder should see all the conditions of contract uploaded in the website including Corrigendum if any, till the last date of submission of bid.
13. BSNL reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

## E-Tendering Instructions to Tenderers

### General

Submission of Tender through online process is mandatory for this e-Tender.

E-Tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. For conducting electronic tendering, BSNL Electrical Zone has decided to use the portal <https://www.tenderwizard.com/BSNLKOL> through M/s ITI, a Government of India Undertaking. It supports all activities of tendering based on proactive work flow concept. Fine details of tendering like vendors registration, tender announcement and corrigendum, tender form processing, opening, negotiation and tender awarding are supported in a real time interactive environment.

#### **1. Tender Bidding Methodology:**

Electronically Sealed Bid System –“Single Stage - Two Envelopes Electronic bid system”. In this case of two electronically sealed envelopes bid system, the Eligibility documents as per NIT [Envelope-I] & Tender Document [Envelope-II] shall be submitted by the bidder at the same time.

#### **2. Broad outline of activities from Bidders prospective:**

- a) Procure a Digital Signing Certificate (DSC).
- b) Register on Tender Wizard site of M/s ITI (e-Tender)
- c) Create Users and assign roles on e-Tender
- d) View Notice Inviting Tender (NIT) on e-Tender
- e) Download Official Copy of Tender Documents from e-Tender
- f) Clarification to Tender Documents on e-Tender
- g) Query to BSNL (Optional)
- h) View response to queries posted by BSNL, as addenda.
- i) Bid-Submission on e-Tender
- j) Attend Public Online Tender Opening Event (TOE) on e-Tender Opening.
- k) View/Post-TOE Clarification posted by BSNL on e-Tender (Optional)- Respond to BSNL’s Post-TOE queries.

For participating in this tender online, the following instructions need to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the e-Tender.

#### **3. Digital Certificates:**

For integrity of data and its authenticity/ non-repudiation of electronic records, and be compliant with IT Act 2200, it is necessary for each user to have a Digital Certificate (DC). also referred to as Digital Signature Certificate (DSC), of **Class III**, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

#### **(i) Registration:**

To use the Electronic portal (<https://www.tenderwizard.com/BSNLKOL>), vendor needs to register on the portal (if not registered earlier). Registration of each organization is to be done by one of its senior persons who will be the main person coordinating for the e-tendering activities. In e-TENDER terminology, this person will be referred to as the

Super User (SU) of that organization. For further details, please visit the website/portal (<https://www.tenderwizard.com/BSNLKOL>), and click on the “Supplier Organization” link under “Registration” (on the Home Page), and follow further instructions as given on the site.

#### 4. Bid related Information for this Tender (Sealed Bid)

The entire bid-submission would be online on e-TENDER. Broad outline of submissions are as follows:

- (a) Submission of Cost of bid document, Earnest Money Deposit (EMD), Processing Fee and Eligibility documents(as per para 17 of NIT) (Envelope-I)
- (b) Submission of digitally signed copy of Tender Documents/Addendum/addenda (Envelope-II)

#### 5. Offline Submissions:

The contractor shall submit the DD for cost of Bid documents, EMD in the prescribed form, and Eligibility documents as per NIT in a sealed envelope mentioning Name of work, date & time of opening of bids in the tender box available in the office of **Executive Engineer (Electrical), BSNL Electrical Division, DIMAPUR** before the prescribed date & time as notified and same shall be opened in presence of AO, SDE [E-P] (or any other authorized BSNL Executive) and contractors present (Ref EW6).

#### 6. Public Online Tender Opening Event (TOE):

E-Tender offers a unique facility for “Public Online Tender Opening Event (TOE)”. Tender Opening Officers as well as authorized representatives of bidders can attend the Public Online Tender Opening Event (TOE) from the comfort of their offices. For this purpose, representatives of bidders (i.e. Supplier organization) dully authorized are requested to carry a Laptop and Wireless Connectivity to Internet.

The following **KEY INSTRUCTIONS** for BIDDERS must be assiduously adhered to:

- (i) Obtain individual Digital Signing Certificate (DSC or DC) well in advance of your first tender submission deadline on M/s ITI E-tender Site or any Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA).
- (ii) Register your organization on M/s ITI e-tender site well in advance of your first tender submission deadline on M/s ITI e-tender Site (<http://tenderwizard.com/BSNLKOL>)
- (iii) Get your organization’s concerned executives trained on M/s ITI e-tender Site well in advance of your first tender submission deadline on M/s ITI e-tender Site
- (iv) Submit your tender well in advance of tender submission deadline on M/s ITI e-tender site as there could be last minute problems due to internet timeout, breakdown, etc. While the first three instructions mentioned above are especially relevant to first-time users of M/s ITI e-tender Site, the fourth instruction is relevant at all times.
- (v) Vendors are requested to contact ITI Officers for any information regarding e-tendering / training. Contact Details of M/s ITI Ltd officers is as given below:

Please visit [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL) or pl. contact **Mr Siddharth /Mrs.SaswatiMajumder Mob No: 09674758723/ 9674758722 ,emailIDs: [helpline1tenderwizard@gmail.com](mailto:helpline1tenderwizard@gmail.com)**

## TENDER SUBMISSION FORMAT (For e-Tender)

**Important Note:** Before submitting on line tender document, contractor must verify the check list properly for offline submission of required documents & uploading of their scanned copies as per instructions.

**To,**

**The Executive Engineer (E),**

**BSNL Electrical Division,**

**DIMAPUR.**

**Subject:** Submission of e-Tender for the work of “Providing Electrical installation and other miscellaneous works for Telepresence Studio under UNMS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.”

As per tender publication advertised by your office and display of Notice Inviting Tender on web site [www.ne2.bsnl.co.in](http://www.ne2.bsnl.co.in) and [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL). We are hereby submitting the following documents duly self-attested.

Sl. No.	DOCUMENTS	DETAILS
1	<b>Tender due on</b>	
2	<b>Tender Cost.</b>	
a.	Demand Draft No.	
b.	Date	
c.	Amount <b>(Rs. 590/-)</b>	
d.	Name of Bank and Branch	
e.	In favor of	<b>Accounts officer (Cash), O/o GMTD, BSNL, NAGALAND SSA, Dimapur.</b>
3.	<b>Earnest Money Deposit</b>	
a.	DD / FDR / CDR /BG No.	
b.	Date	
c.	Amount <b>(Rs. 11,526.00)</b>	
d.	Name of Bank and Branch	
e.	In favor of	<b>Accounts officer (Cash), O/o GMTD, BSNL, NAGALAND SSA, Dimapur.</b>
4.	<b>Details of firm / Company</b>	
a.	Name of firm / Company(mandatory)	
b.	Name of Proprietor / Partner / Managing Director	



<b>c.</b>	Address	
<b>d.</b>	Pin Code	

<b>e.</b>	Telephone	
<b>f.</b>	E– mail address ( <b>MANDATORY</b> )	
<b>g.</b>	Address of Branch / Head Office Name	
<b>5.</b>	Income Tax returns / Chartered Accountant Certificate Date	
<b>6.</b>	GST Registration No. & Date	
<b>7.</b>	EPF Registration No.	
<b>8.</b>	ESI Registration No.	
<b>9.</b>	Bank details of agency for RTGS/online payment	
<b>a.</b>	Bank Account No:-	
<b>b.</b>	Bank Name & Branch:-	
<b>c.</b>	IFSC code:-	

**10. Lists of 3 works carried out satisfactorily (Certified Officer not below the rank of Executive Engineer).**

(To be issued by the user on his printed letterhead to the tenderer)

This is to certify that the work has been completed satisfactorily as per details given in tender document / P.O.

Sl. No.	Name of Work	Date of start	Date of Completion	Amount of work Done	Department and P.O. / Agreement No.
1.					
2.					
3.					

**11. Annual Turn over**

(To be issued by Chartered Accountant on his letter head indicating following)

Sl. No.	Year	Annual turn over
1.		Rs.
2.		Rs.
3.		Rs.

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I, \_\_\_\_\_ proprietor/ duly authorized representative of M/s.  
\_\_\_\_\_ hereby certify that the information given above is true to  
the best of my knowledge and belief. I have been duly authorized to sign and certify the documents. I understand that  
any wrong information/suppression of facts will disqualify us from being considered for the tender participation.

Place

Yours sincerely

(Signature)

Date

(Name in block letter)

Seal of firm

BHARAT SANCHAR NIGAM LIMITED  
(A Government of India Enterprise)

**Tender for the Work of :Providing EI & Fans, LT Panel, AC units, AFD system and other miscellaneous works  
for Telepresence Studio under NFS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.**

**Name of Contractor / Firm:**

## UNDERTAKING

1. I/we have read and examined the Notice inviting tender, Important note for the contractors, Schedule of quantity, Data sheet, Specifications applicable drawings & designs, conditions of contract and all other contents in the tender document for the work.
2. I/we have read and examined the General Rules and Directions & Clauses of EW-8.
  - (i) The name of work, time allowed for work, estimated cost, tender cost, mode & amount of EMD etc wherever appearing in EW-6/8 shall be as per the notice inviting tender available on the web-site.
  - (ii) In condition no. 40 of the EW – 6, the amount of EMD which can be forfeited is 50 %.
3. I/We hereby tender for the execution of the work specified for BSNL within the time specified, as per schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.
4. I/We agree to keep the tender open for ninety (90) days from the due date of submission thereof and not to make any modifications in its terms and conditions.
5. A sum of **Rs. 11,526.00** is hereby forwarded in the form of CDR/FDR/DD/TDR as earnest money. If I/We, fail to commence the work specified I/We agree that the said BSNL or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely and the same may at the option of the competent authority on behalf of BSNL be recovered without prejudice to any other right or remedy available in law out of the deposit in so far as the same may extend in terms of the said bond and in the event of deficiency out of any other money due to me/us under this contract or otherwise.
6. Should this tender be accepted, I/We agree to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, as per condition no. 4 of “Important note for the contractors.”
7. I/We agree that the said EW-6/8 shall be made a part of the contract while entering into the agreement. (CAN BE DOWNLOADED at [http://electrical.bsnl.co.in/BSNL\\_EW-8.pdf](http://electrical.bsnl.co.in/BSNL_EW-8.pdf))
8. I / we agree to furnish to BSNL Deposit at call receipt / FDR / Bank guarantee of a Nationalized / Scheduled Bank for an amount equal to 5% of the contract value in a standard format within two weeks from the date of issue of letter of Acceptance. I / We agree to keep the Performance Bank Guarantee validity as per relevant clause of Notice Inviting Tenders.
9. I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than to whom I / We am / are authorized to communicate the same or use the information in any manner prejudicial to the safety or interest of BSNL.

(Signature of contractor) (Postal address)

Dated \_\_\_\_\_

(Seal of the contractor)

**ACCEPTANCE**

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

\_\_\_\_\_ )

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

- a)
  
  
  
- b)
  
  
  
- c)

For & on behalf of ***BSNL***

Signature

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## **GENERAL RULES AND DIRECTIONS**

1. All works proposed for execution by contractor will be notified in a form of invitation to tender displayed on Notice Board in select BSNL offices and signed by the officer inviting tender or by publication in Newspapers/internet (designated web page) as the case may be.
2. This form will state the work to be carried out, as well as the date of submitting and opening tenders and the time allowed for carrying out the work; also the amount of earnest money to be deposited with the tender, and the amount of performance guarantee to be deposited by the successful tenderer(s). Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the Officer inviting tender shall also be open for inspection by the contractor at the office of Officer inviting tender during office hours.
3. In the event of the tender being submitted by a firm it must be signed by the authorized signatory.
4. Receipts for payments made on account of work when executed by a firm, must also be signed by authorized signatory.
5. Any person who submits a tender shall fill up online tender at what rate he is willing to undertake each item of the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any conditional rebates will be summarily rejected. However, tenders with unconditional rebate will be acceptable. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tenders shall have the name and number of the works to which they refer written on the envelopes. The rates(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paise and considering more than fifty paise as rupee one.
6. The Officer inviting tender or his duly authorized assistant will open tenders in the presence of any intending contractors who may be present at the time, and will enter the amounts of the several tenders in a Comparative Statement in a suitable form. In the event of a tender being accepted a receipt for the earnest money forwarded therewith shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule 1. In the event of a tender being rejected, the earnest money forwarded with such unaccepted tender shall thereupon be returned to the contractor remitting the same without any interest.
7. The officer approving tenders shall have the right of rejecting all or any of the tenders, and, will not be bound to accept the lowest or any other tender.

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8. The memorandum of work tendered for and the schedule of materials to be supplied by BSNL shall be filled and completed in the office of the Officer inviting tender before the tender form is issued.
  9. The tenderer shall sign a declaration under the officials Secret Act' 1923 for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings given to them.
  10. All rates shall be quoted on the tender form only.
  11. Procedure for dealing with ambiguities in rates: if on check there are differences between the rates given by the contractor in words and in figures or in amount worked out by him, the following procedure shall be followed:-

In e-tendering the intending bidder can quote his rates in figures only. The rates in words, amount of each item and total is generated automatically. Therefore the rate quoted by the bidder in figures is to be taken as correct.
  12. The tender for the work shall not be witnessed by a contractor or contractors who himself/ themselves has/have tendered or who may and has/have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.
  13. Other agencies will also simultaneously execute the works like horticulture, external services, installation of telephone exchange equipment and other building works for the same project along with this work in particular. The contractor shall afford necessary facilities for the same. No claim in the matter shall be entertained.
  14. Some restrictions may be imposed by the security staff etc on the working and/or movement of labour, material etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on this account.
  15. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Engineer-in-charge may in his discretion without prejudice to any other right or remedy available in law cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
  16. Agency has to observe all labour rules and regulations in force. Agency shall be fully responsible for any violation observed at any time.
  17. Bye laws Indemnity against liabilities

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- The contractor shall comply with all by laws and regulations of the local and statutory authorities having jurisdiction over the works and shall be responsible for payment of all fees and other charges and giving and receiving all necessary notices and keep the Engineer –in-charge informed about the notices issued and received.
  - The contractor shall indemnify the department against all claims in respect of patent rights design, trademark or name of other protected rights in respect of any plant, machine, work or materials used for or in connection with the works or temporary works and from and against all claims demands, proceedings, costs, charges and expenses whatsoever in respect of or in relation thereto. The contractor shall defend all actions arising from such claims and shall himself pay all royalties, License fees, damages, costs and charges of all and every sort that may be legally incurred in respect hereof shall be borne by the contractor.
  - All liabilities / penal recoveries on matters arising out of tax/~~excise~~/levies such as incorrect deductions discrepancies in the filing of returns, revised assessments by the concerned authorities etc, shall be borne by the contractor.
18. Rates quoted by the contractor shall be firm and shall be valid for the currency of contract. No cost escalation shall be permitted during the currency of contract.

## PROFORMA OF SCHEDULES

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

### SCHEDULE 'A'

Schedule of quantities: Enclosed

### SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

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

### SCHEDULE 'C'

Tools and plants to be hired to the contractor

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

### SCHEDULE 'D'

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

I. Important Note for Contractors: Appended from page 28-33.

### SCHEDULE 'E'



Reference to General Conditions of contract.	BSNL EW-8 Amended up to date( The taxes mentioned in the EW-8 may read in conjunction with GST act 2017)
Name of work:	<b>Providing Electrical installation and other miscellaneous works for Telepresence Studio under UNMS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.</b>
Estimated cost of work:	<b>Rs. 5,76,298.00</b>
i) Earnest money :	<b>Rs. 11,526.00</b>
ii) Performance Guarantee :	5% of tendered value of work.
iii) Security Deposit :	5 % of the tendered value of the work.
<b><u>SCHEDULE 'F'</u></b>	
GENERAL RULES and DIRECTIONS:	Officer inviting tender: <b>EE (E), BSNL Electrical Division, Dimapur</b>
<b>Definitions:</b>	See below
2(v) Engineer-in-Charge	Concerned <b>Executive Engineer (E), BSNL Electrical Division, Dimapur.</b>
2(vi) Accepting Authority	<b>Superintending Engineer (E), BSNL Electrical Circle, Shillong.</b>
2(x) Percentage on cost of materials and labour to cover all overheads and profits.	10%
<b>Clause 1</b>	
i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in days	14days
ii) Maximum allowable extension beyond the period provided in i) above in days	14days
<b>Clause 2</b>	
Authority for fixing compensation under Clause 2.	SE (E)
<b>Clause 5</b>	10 days

Number of days from the date of issue of letter of acceptance for reckoning date of start Milestone(s) as per table given below :-			
<b>Table of Mile Stone(s)</b>			
Sl. No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non-achievement of milestone
1	<b>NA</b>		
2			
<b>OR</b>			
Sl. No.	Financial Progress	Time allowed (from date of start)	Amount to be with-held in case of non-achievement of milestone
1	1/8 <sup>th</sup> (of whole work)	1/8 <sup>th</sup> (of whole work)	NA
2	3/8 <sup>th</sup> (of whole work)	1/2 (of whole work)	
3	3/4 <sup>th</sup> (of whole work)	3/4 <sup>th</sup> (of whole work)	
4	Full	Full	
Time allowed for execution of work.  Authority to give fair and reasonable extension of time for completion of work.			<b>2(Two) Months from the date of completion of Civil works.</b>  EE (E)/SE(E)
<b>Clause 7</b>  Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.			As Applicable.
<b>Clause 10CC</b>  Clause 10CC to be applicable in contracts			NA
<b>Clause 11</b>  Specifications to be followed for execution of work			Specifications as appended with Schedule of work.
<b>Clause 12</b>  <b>12. 2&amp; 12.3</b> Deviation Limit beyond which clauses 12.2 and 12.3 shall apply			50%

<b>Clause 16</b> Competent Authority for deciding reduced rates.	Superintending Engineer (E)
<b>Clause 30</b> Minimum Qualifications and experience required for Principal Technical Representative.	
i) Work with estimated cost put to tender more than Rs.2 lakhs but less than Rs.5 lakhs	Recognized diploma holder
ii) Work with estimated cost put to tender more than Rs. 5 lakh	Graduate or recognized diploma holder with three years experience
c) Discipline to which the Principal Technical Representative should belong.	Elect./ Mech
d) Minimum experience of works	Three (3) years.
e) Recovery to be effected from the contractor in the event of not fulfilling provision of clause 30.2 & 30.5	Rs. 4,000/- p.m. for works costing above 5 lakhs.  Rs. 2,000/- p.m. for works costing between 2 lakhs and 5 lakhs.

## **IMPORTANT NOTE FOR CONTRACTORS**

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

### **1. EARNEST MONEY**

Firm has option to deposit Earnest Money in the form of CDR / FDR / DD/TDR of a scheduled Bank or Nationalized Bank / State Bank guaranteed by Reserve Bank of India . If the firm fails to start or withdraws from agreement, then as per relevant clause of the agreement, EMD @ 2% of the amount of agreement shall be forfeited from EMD available with the agreement or from any money due to the firm by the department under this contract or on any other account. Validity period of earnest money deposit shall be 30 days beyond the tender validity.

- (i) The EMD of all the unsuccessful tenders shall be released on issue of award letter to the successful tender.
- (ii) The EMD of the successful tenderer will be returned to the contractor without interest only after submission of performance guarantee and commencement of work. The successful tenderer has to extend the validity of EMD as per BSNL requirements..

### **2. BID PRICES, TAXES AND DUTIES**

The bidder shall give the total composite price inclusive of all Central and State's Levies & Taxes i.e. **GST** (Applicable CGST/SGST/IGST) on material, labour etc. except octroi / Entry Taxes. Octroi / Entry Taxes will be paid extra, as per actual, wherever applicable on production of proof of payment / relevant invoices / documents.

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

(a) The total composite price shall comprise of unit price and all other components of price need to be individually indicated / quoted against the goods / material / service, it proposes to supply under the contract in the following manner :

- (i) The Basic Unit price (Ex-Factory Price) of the goods / services / materials, **GST (CGST, SGST, IGST)** payable by the supplier shall be quoted separately.
- (ii) The liability to pay all taxes, levies etc. shall be of contractor and BSNL will not entertain any claim whatsoever in this respect.

(b) Input Tax credit to BSNL :

- (i) The firm shall furnish correct HSN /SAC codes in GST challans/invoices for availing Input Tax credit by BSNL
- (ii) Vendors should furnish the correct taxes and cess under GST tariff head in the price Schedule. If the input tax credit for the Duties and Taxes under GST ACT 2017/Rules is found to be not admissible at any stage subsequently owing to wrong furnishing of tariff Head, then the vendors will be liable to refund such non-admissible amount, if already paid along with penalty if charged by the concerned authority.
- (iii) In case where the input tax credit is not offered by the vendor as per the quotes indicated in the price schedules and subsequently at any stage it is found that input tax credit is admissible as per GST ACT 2017/Rules then the

venders will be liable to refund the amount equivalent to such Duties & Taxes if already paid to them. However the purchaser may allow the supplier to submit necessary documents in this regard which may enable the purchaser to avail the input tax credit provided such credit is still available for the amount so paid as per GST ACT 2017.

- (iv) BSNL reserves the right to ask the bidders to submit documentary proof confirming the correct Tariff Head from the GST authority wherever the tariff head furnished against the particular tendered item by different bidders differs from each other or the same is found apparently not furnished in accordance with GST ACT.
- (v) If the supplier fails to furnish necessary supporting documents for input tax credit the amount pertaining to such duties/taxes will be deducted from the payment due to the firm.
- (vi) If the vendor/supplier fails to perform necessary compliances which would in 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 vendor /supplier.
- (vii) If the Vendor / supplier 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 Vendor/suppliers.
- (viii) *Invoice should clearly indicate name, address and GSTIN of the supplier, date, name address and GSTIN of the recipient, Place of supply along with name of state, HSN code of Goods or Service Accounting code (SAC), breakup details of composite price i.e. basic unit price (Ex-Factory price) of the goods/services/materials, etc. rate of GST such as CGST / SGST/UTGSU or IGST or any other duties and taxes.*
- (ix) In case of any statutory variation in regard to Input tax credits, within the currency of individual agreement including extension of time period, the same shall be admissible as per actual Input tax credit only, subject to the condition that the reason for such extension of time period is not attributable to the agency.
- (x) BSNL can adjust/forfeit Bank Guarantee obtained from the vendor/supplier against any loss of input tax credit to BSNL on account of vendor's/ supplier's default.
- (xi) **Tax indemnity clause:** BSNL has the right to recover Input Tax Credit loss suffered by it due to any mis-declaration on invoices by the supplier.

### 3. EVALUATION OF BIDS

The evaluation and comparison of responsive bids shall be done on the basis of **Net cost to BSNL** on the prices of all items included in schedule of work offered inclusive of packing, forwarding, freight and insurance charges but excluding Input tax credit/GST. The Octroi/Entry Taxes are not to be included in the composite price and hence the same will not be considered for the purpose of evaluation and comparison of responsive bids. However, Octroi/ Entry Taxes will be paid extra, as per actual, wherever applicable, on production of proof of payment / relevant invoices / documents.

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**4. INCREASE/DECREASE OF TENDER QUANTITY:**

BSNL will have the right to increase / decrease up to 50% of the quantity of goods and services specified in the schedule of items without any change in the unit price or other terms and conditions at the time of award of contract. In exceptional and unavoidable cases BSNL can increase the quantity of goods and services beyond 50% of the tendered quantity without any change in tendered and accepted unit price and also other terms and conditions as applicable at the time of award of contract.

**5. SIGNING OF CONTRACT:**

The successful tenderer /contractor, on acceptance of his tender by the Accepting Authority, shall sign the contract within 15days consisting of the notice inviting tender, all documents including drawings, if any, forming the tender as issued at the time of invitation of tender & acceptance thereof together with any correspondence leading thereto.

**6. CURTAILMENT OF QUANTITY:**

BSNL reserves the right to enforce curtailment in the assigned quantum of work for any contractor on the grounds of defaults/delay in regard to execution of the individual work assigned.

**7. VARIATION IN GST:**

In case of any statutory variation in regard to Input tax credit, within the currency of individual agreement including extension of time period, the same shall be admissible as per actual Input tax credit only, subject to the condition that the reason for such extension of time period is not attributable to the agency.

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

(b) The contractor(s) shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of Government and shall furnish such other information's /documents as the Engineer-in-Charge may require.

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

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## **9. PERFORMANCE BANK 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 (Annexure-II) /CDR/FDR/DD/TDR) within two weeks from the date of issue of the award letter. The validity period of the performance security in the form of performance bank guarantee shall be One year from the actual date of completion of work.

**Security Deposit:** In addition to Performance guarantee stated above, a sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum will amount to security deposit of 10% (i/c 5% PBG) of the Tendered value of the agreement. This Security Deposit shall be released after an observation period of 12 months after the date of completion of work.

## **10. PAYMENT TERMS:-**

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

- (a) BSNL will make payment to the agency only after the invoice is uploaded by agency in the GST outward returns it means in GSTR-1 and credit of GST is available (reflected in GSTR-2A) to BSNL.
- (b) No payment will be made for goods rejected at the site on testing. Payment, if made for such items shall be recovered from subsequent bills or other bills.
- (c) If the supplier fails to furnish necessary supporting documents i.e. GST Invoice/Customs Invoices etc. and also fails to upload the information on GSTN in respect of the Duties/Taxes for which input tax credit is available, the amount pertaining to such Duties/Taxes will be deducted from the payment due to the supplier.
- (d) Tax amount will be paid to the supplier only after supplier declares the details of the invoices in its return in in GSTR 1 and GSTR-3 uploaded by the supplier and the same is reflected in GSTR-2A of BSNL on GSTN portal.
- (e) TDS/TCS shall be deducted at the prescribed rate, if any (as the case may be).

## **11. PROGRAMME FOR EXECUTION: -**

The firm shall execute the work as per detailed programme as mentioned in table of mile stones in schedule of proforma. Tentative dates etc. shall be also submitted.

## **12. STORES AND SAFETY:-**

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

## **13. PACKING, FORWARDING AND STORING AT SITE:**

Before dispatch to site, the equipment / components / materials shall be properly packed with polythene sheet and wooden planks for protection and avoiding transit damages and damage against storage in open area at transporters premises or at work site

## **14. COORDINATION AT SITE:**

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At the site of work more than one agency may be working. Full co-operation shall be extended to other agencies during progress of work. Further, work shall be carried out in such a way so that it may not cause abnormal noise and hindrance to the officers of the department engaged in creation as well to normal routine work.

**15. GUARANTEE AND DEFECT LIABILITY:**

(i) The guarantee shall be valid for 12(Twelve) months after completion of work. The contractor shall guarantee that all components shall be free from any defect and also the components shall work satisfactorily with performance and efficiencies not less than the guaranteed values. The security deposit will be released only after the guarantee period.

In case of Split AC unit The manufacturer shall give a guarantee for the soundness of construction and performance of the air conditioner and shall be responsible for putting right any manufacturing defects free of charge for a period of **15 months** from the date of supply or **12 months** from the date of installation of air conditioner, whichever is earlier.

(ii) Any component found defective during this period shall be replaced free of cost by the contractor. The service of the contractor's personnel, if required during this period shall be made available free of cost to the BSNL.

(iii) A joint report shall be prepared by the representative of BSNL and the firm regarding nature of defects and remedial action required. Time schedule for such action shall also be finalized.

(iv) In case the contractor fails to depute his representative within **36 hours** of notification of the defect or fails to cause remedial measure within reasonable time as decided during joint inspection, the BSNL may proceed to do so at the contractor's risk and expenses and without prejudice to any other right

**16. NOT COVERED UNDER GURANTEE:-**

1. Consequential losses and damages.
2. Parts subject to normal wear and tear such as electrical contacts.
3. Failure of parts due to corrosive atmosphere.

**17. DATE OF COMPLETION:** - Date of Successful Installation, completion of Testing and commissioning shall be taken as completion date of the work.

**18.** The list of approved make of various items is as per Annexure –IV.

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

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

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



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

The certificate (As per Annexure-VII) shall be given by the proprietor in respect of proprietorship firm, by all the partners in respect of partnership firm and in respect of a limited company by all directors of the company. Govt. of India/Financial Institutions nominees and independent non-official part time Directors appointed by Govt. of India or the Governor of the State and full time Directors of PSUs both State and Central are excluded from the purview of the above provisions.

**22.** The competent authority on behalf of the BSNL does not bind himself to accept the lowest or any other tender, and reserves to himself the authority to reject any or all of the tenders received without the assignment of a reason. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.

**23.** The competent authority on behalf of BSNL reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

**24.** No exemption certificate for payment of EMD is acceptable.

**25. 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 BNSL shall have the option of terminating the contract without compensation to the contractor.

**26. 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/GST Departments recommends such a course-Action will be taken as per the directions of CBI or concerned department-

## ABSTRACT OF COST

**Name of Work: Providing Electrical installation and other miscellaneous works for  
Telepresence Studio under UNMS Project at Rangapahar, Nagaland.  
3<sup>rd</sup> CALL.**

Sl. No.	Description	Total Amount (inclusive of all levies & taxes including GST (Rs.)	(TOTAL NET COST TO BSNL)  (Rs.)	
1	Sub- Head - I (Electrical Installation)			
2	Sub- Head - II (Main MV Panel)			
3	Sub- Head - III (Lightning Protection &Earthing)			
4	Sub- Head - VI (Cabling)			
	<b>GRAND TOTAL</b>			

**UN-PRICED SCHEDULE**

**SCHEDULE OF WORK**

**Name of Work: Providing Electrical installation and other miscellaneous works for Telepresence Studio under UNMS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.**

Sl. No.	SoR Item Description	Total quantity	Unit	Unit Price (w/o GST)	Unit	AMOUNT
1	2	3	4	5	6	7=3 X 5

**SUB-HEAD : I (ELECTRICAL INSTALLATION)**

1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.(Group - 'C')	43	Pts.		Pt.	
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
a)	2 X 1.5 Sq.mm. + 1 X 1.5 Sq.mm. earth wire.	150	Mtrs.		Mtr.	
b)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	50	Mtrs.		Mtr.	
c)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	30	Mtrs.		Mtr.	
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit/cable management system as required.					
a)	3 X 1.5 Sq.mm.	35	Mtr		Mtr	
b)	6 X 1.5 Sq.mm.	50	Mtrs.		Mtr.	
c)	9 X 1.5 Sq.mm.	50	Mtrs.		Mtr.	
d)	3 X 2.5 Sq. mm.	20	Mtrs.		Mtr.	
e)	6 X 2.5 Sq.mm.	15	Mtrs.		Mtr.	

**UN-PRICED SCHEDULE**

f)	3 X 4 Sq. mm.	80	Mtr		Mtr	
4	Supplying & fixing following sizes of steel conduit along with accessories in surface/recess i/c painting in case if surface cuinduit of cutting the wall and making good the same in case of recessed conduit as required.					
a)	20mm.	150	Mtr		Mtr.	
b)	25mm.	100	Mtr		Mtr.	
c)	32mm.	50	Mtr		Mtr.	
5	Supplying, Installation, testing and commissioning of 5Star rating 1200mm sweep ceiling fan, including wiring the down rods of standard length (upto 30cm) with 1.5sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required. [Make shall be as per List of approved makes (Annexure-IV)].	5	Nos.		Each	
6	Supplying, Installation of 300mm sweep exhaust fan with metal blade suitable for 230Volts A.C. supply in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. [Make shall be as per List of approved makes (Annexure-IV)].	2	Nos.		Each	
7	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required. [Make shall be as per List of approved makes (Annexure-IV)].	5	Nos.		Each	
8	Supplying, Installation, testing and commissioning of pre-wired, 4-feet 16/18Watt high efficiency LED batten in extruded aluminum housing with diffuser complete with LED tube suitable for 230Volts A.C. supply complete with all accessories etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required. [Make shall be as per List of approved makes (Annexure-IV)].	4	Nos.		Each	

**UN-PRICED SCHEDULE**

9	Supplying, installation of 600mmx600mm, 34/36Watt recess mounted LED type fitting complete with all accessories i/c lamp suitable for 230Volts A.C. supply including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable on surface/wall and earthing etc. as required. [Make shall be as per List of approved makes (Annexure-IV)]. (only for Studio)	10	Nos		Each	
10	Supplying, installation of Square, 12 Watt surface mounted LED type fitting complete with all accessories i/c lamp suitable for 230Volts A.C. supply including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required .[Make shall be as per List of approved makes (Annexure-IV)].	6	Nos		Each	
11	Supplying and fixing of LED lamp complete with holder, base and lamp globe & 1no. 10/12 W LED lamp including connections etc. as required. [Make shall be as per List of approved makes (Annexure-IV)].	2	Nos.		Each	
12	Supplying and fixing 3pin, 5A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	13	Nos.		Each	
13	Supplying & Fixing following Modular Switch/Socket on the existing Modular plate & switch box i/c connections but excluding modular plate etc. as required.					
a)	5/6Amps switch	11	Nos.		Each	
b)	5- pin 5/6Amps socket outlet	11	Nos.		Each	
c)	15/16Amps switch	12	Nos.		Each	
d)	6- pin 15/16Amps socket outlet	12	Nos.		Each.	
14	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.					
a)	3Module (100mm X 75 mm)	1	No.		Each	
b)	4Module (125mm X 75 mm)	12	Nos.		Each	

UN-PRICED SCHEDULE

15	Supplying & fixing of DP sheet steel enclosure on surface/recess along with 25/32Amps. 240Volts "C" curve DPMCB complete with connection, testing & commissioning etc. as required. (For - Split AC units).	4	Nos.		Each	
16	Supplying and fixing 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)					
a)	4 way (4 + 12), Double door	2	No.		Each	
17	Supplying and fixing of following ways surface/ recess mounting, Vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required.					
a)	4 way (4 + 12), Double door (For Cassette type AC)	1	No		Each	
18	Supplying and fixing 5 A to 32 A rating, 240/415 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.					
a)	Single pole	20	Nos.		Each	
b)	Triple pole	3	Nos.		Each	
c)	Blanking Plate	30	Nos.		Each	
19	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a)	40A	2	Nos.		Each	
b)	63A	1	Nos.		Each	

UN-PRICED SCHEDULE

20	Supplying and installing following size of perforated painted with powder coating M.S. cable trays bends with perforation not morethan 17.5%,, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspendersetc. as required.					
a)	100mm width X 50mm depth X 1.6mm thickness	75	Mtrs.		Mtr.	
21	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	10	Nos.		Each	
22	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.					
a)	100mm X 100mm X 60mm deep.	8	Nos.		Each	
<b>SUB-HEAD : II (Main MV Panel)</b>						
23	Supply, Installation, Testing & Commissioning of factory fabricated cubical type floor mounted totally enclosed, extensible compartmentalized type dust and vermin proof powder coated indoor MV panel made out of CRCA sheet not less than 2.0mm thick for fixed members and 1.6mm for removable members. The panel shall have a base channel of MS 'C' section of size 100 mm x 50 mm x 5 mm thickness, painted with anticorrosive paint followed by black enamelled paint, air lovers with wire meshing having space and arrangement for incoming cable, insulated and prpoerly supported compartmentalized busbars and busbar support, cable alley with following ratings of Incoming &Out going switch gears, meter, indicating lamps etc. suitable for 415Volts, AC supply system having detachable top & bottom MS plates for incoming & outgoing cable entry, i/c interconnections with suitable sizes of Copper conductor cables/strips, powder coated painting, sign writing and earthing the body with existing conductor complete as required.					
A.	<b>INCOMING(s) : -</b>					

**UN-PRICED SCHEDULE**

a.	<b>250Amps. 36kA breaking capacity (Ics=100% Icu), 4Pole MCCB, with thermal-magnetic release range (200Amp - 250Amps) along with extender rotary operating mechanism, spreader terminals, mechanical inter lock. - 02Nos.</b> (One no. for Nagaland Power incoming supply & one no.for DEA incoming supply)				
B.	<b>OUTGOING(s) : -</b>				
a)	<b>125Amps., 35kA breaking capacity (Ics=100% Icu) TP MCCB having thermal-magnetic release range (100-125Amps)along with extended rotary operating mechanism, spreader terminals -05Nos.</b>				
b)	<b>63Amps. TPN, open execution type switch disconnecter fuse unit(SDFU) with 3(three)nos. 63Amps HRC fuses, with rotary handle assembly. - 04Nos.</b>				
C.	<b>OTHER PARAMETERS : -</b>				
a)	<b>96mm X 96mm flush mounting type 3-Phase, 4-wire, Multi Parameter Meter with LCD display - 02Sets.</b> (For - Main & Stand-by supply).				
b)	<b>200/5Amps. 10 VA/Class-1 accuracy current transformer- 02(Two)Sets.</b>				
c)	<b>29mm (Aprox.) DiaLED type R-Y-B indication lamp - 02(Two)Sets.</b>				
d)	<b>300Amps, 4-strip Aluminium bus bars of suitable size and length with at least 3Nos. epoxy resin bonded insulating supports per strip, PVC colour coated sleeve etc. complete as required.</b>				
	Note : - 1. All interconnections are to be made with suitable sizes of Copper conductor Cables/Strips. 2. The Drawing of above panel should be got approved from Engineer in-charge of work before start of fabrication.	1	Job		Job
<b>SUB-HEAD : III (Lightning Protection &amp;Earthing )</b>					
24	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85mm dia 6mm thick G.I. base plate including holes etc. complete as required.	8	Nos.		Each

**UN-PRICED SCHEDULE**



25	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/sweating and soldering etc. as required.	20	Nos.		Each	
26	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required. (For horizontal run)	75	Mtrs.		Mtr.	
27	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required. (For vertical run)	15	Mtrs.		Mtr.	
28	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 Nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	2	Nos.		Mtr.	
29	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	15	Mtrs.		Mtr.	
30	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	20	Mtrs.		Mtr.	
31	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	20	Mtrs.		Mtr.	
32	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	20	Mtrs.		Mtr.	
<b>SUB-HEAD : IV (CABLING)</b>						
33	Supplying of followeing sizes of PVC insulated and PVC sheathed / XLPE insulated Aluminium conductor armoured cable of 1.1 KV grade including transportation, loading, unloading upto site complete as required.					
a)	4 core 16Sq.mm	50	Mtrs.		Mtr.	
b)	3 ½ core 25Sq.mm	40	Mtrs.		Mtr.	
c)	3 ½ core 50Sq.mm	50	Mtrs.		Mtr.	
34	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.					

UN-PRICED SCHEDULE

a)	Upto 35 sq. mm	10	Mtrs.		Mtr.	
b)	Above 35 sq. mm and upto 95 sq. mm	40	Mtrs.		Mtr.	
35	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					
a)	Upto 35 sq. mm	5	Mtrs.		Mtr.	
b)	Above 35 sq. mm and upto 95 sq. mm	5	Mtrs.		Mtr.	
36	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing masonry open duct as required.					
a)	Upto 35 sq. mm	15	Mtrs.		Mtr.	
b)	Above 35 sq. mm and upto 95 sq. mm	15	Mtrs.		Mtr.	
37	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size upto 35 sq. mm on wall surface as required. (clamped with 1mm thick saddle)					
a)	Upto 35 sq. mm	35	Mtrs.		Mtr.	
b)	Above 35 sq. mm and upto 95 sq. mm	25	Mtrs.		Mtr.	
38	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.					
a)	4 X 16 sq. mm. (28 mm)	6	Sets		Set	
b)	3½ X 25 sq. mm (28 mm)	4	Sets		Set	
c)	3½ X 50 sq. mm (35 mm)	4	Sets		Set	
39	Providing, laying and fixing following dia G.I. pipe (Medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc. as required					

**UN-PRICED SCHEDULE**

a)					
		<b>NET COST TO BSNL Total excluding GST</b>			-
		<b>ADD % GST</b>			.....%
		<b>TOTAL GST Amount</b>			
		<b>TOTAL Cost i/c GST</b>			

**Executive Engineer (E)  
BSNL Electrical Division  
Dimapur**

- Note:** (i) Invoice favouring BSNL shall be issued by the supplier indicating GST (as applicable CGST/SGST/IGST) with documentary proof to avail input tax credit by BSNL as per the requirement of GST ACT.
- (ii) The rates quoted shall be inclusive of all taxes and duties but excluding GST. The rates for all items of work shall include cost of all materials, labour, packing & forwarding charges and other input involved in the execution of the items as specified in the scope of work. All taxes/ duties, cess, welfare fund etc. as applicable except GST shall be included in the offer. No sales tax concessional forms will be issued by BSNL/ Client.
- (iii) The evaluation and comparison of responsive bids shall be done on the basis of Net cost to BSNL on the prices offered inclusive of packing, forwarding, freight and insurance charges but excluding input tax credit/GST as indicated in the price schedule. Octroi/Entry Tax are not to be included in the composite price and hence the same will not be considered for the purpose of evaluation and comparison of responsive bids. However, Octroi will be paid extra, as per actual wherever applicable on production of proof of payment/relevant invoices/documents.
- (iv) Works contract tax will not be deducted at the source as it is subsumed in the GST. However, any deduction of tax at source under GST is affected it will be done as per statutory instructions issued by Govt of India time to time.

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- (v) If any levy / duty is not payable or documentary proof is not produced, the amount for the same shall be deducted.
- (vi) The firm should quote for each item separately. They should not club the items while quoting.
- (vii) In case of ambiguity, between schedule and specifications, schedule shall prevail. If there is ambiguity between “schedule and specification” verses IS / BS Standards, “Schedule and specification” shall prevail.

## **TECHNICAL SPECIFICATIONS**

### **SPECIFICATION FOR ELECTRICAL WORKS**

#### **1. General:**

The work should be carried out as per CPWD GENERAL SPECIFICATIONS FOR ELECTRICAL WORKS (Part-I, Internal) as amended upto date.

#### **2. Co-ordination with other agencies:**

The contractor shall co-ordinate with all other agencies involved in the building work so that that the building work is not hampered due to delay in his work. Recessed conduit and other works, which directly affect the progress of building work, should be given priority.

#### **3. Care of Buildings:**

Care shall be taken by the contractor to avoid damages to the building during execution of his part of the work. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of his work from the site.

#### **4. Structural Alternations to Buildings:**

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- (i) No structural member in the building shall be damaged/altered, without prior approval from the competent authority through Engineer-in-charge.
  - (ii) Structural provisions like openings, cutouts, if any provided by the department for the work, shall be used. Where these require modifications, or where fresh provisions are required to be made, such contingent works shall be carried out by the contractor at his cost.
  - (iii) All such openings in floors provided by the Department shall be closed by the contractor after installing the cables/conduits/rising mains etc. as the case may be, by any suitable means as approved by the Engineer-in-charge without any extra payment.
  - (iv) All cases required in connection with electrical works shall be provided and filled by the contractor at his own cost to the original architectural finish of the building.

#### **5. Addition to an installation:**

Any addition temporary or permanent to the existing electrical installation shall not be made without a properly worked out scheme/design by a qualified Electrical Engineer to ensure that such addition does not lead to overloading, safety violation of the existing system.

#### **6. Work in occupied buildings:**

- (i) When work is executed in occupied buildings, there would be minimum of inconvenience to the occupants. The work shall be programmed in consultation with the Engineer-in-charge and the occupying department. If so required, the work may have to be done even before and after office hours.
- (ii) The contractor shall be responsible to abide by the regulations or restrictions set in regard to entry into, and movement within the premises.
- (iii) The contractor shall not tamper with any of the existing installations including their switching operations or connections there to without specific approval of the Engineer-in-charge.

#### **7. Drawings:**

- (i) The work shall be carried out in accordance with the drawings enclosed/approved and also in accordance with modification there to from time to time as approved by the Engineer-in-charge.
- (ii) All wiring diagrams shall be deemed to be 'Drawings' within the meaning of the term as used in clause 11 of the conditions of Contract (EW 8). They shall indicate the main switch board, the distribution boards (with circuit numbers controlled by them), the runs of various mains and sub-mains and the position of all points with their controls.
- (iii) All circuits shall be indicated and numbered in the wiring diagram and the points shall be given the same number as the circuit to which they are electrically connected.

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## **8. Conformity to IE Act, IE Rules, and Standards:**

- 8.1 All Electrical works shall be carried out in accordance with the provisions of Indian Electricity Act'203 and Indian Electricity Rules,1956 amended upto date(date of call of tender unless specified otherwise). List of Rules of particular importance to Electrical Installations under these General Specifications is given in Appendix C for reference.

## **9. General requirements of components:**

### 9.1 Quality of materials:

All materials and equipments supplied by the contractor shall be new. They shall be of such design, size and materials as to satisfactorily function under rated conditions of operation and to withstand the environmental conditions at site.

### 9.2 Inspection of materials and equipments:

Materials and equipments to be used in the work shall be inspected by the Departmental Officers at any of the location as decided by the Engineer-in-charge or competent authority

- 9.3 The Departmental officers will take adequate care to ensure that only tested and genuine materials of proper quality are used in work.

- 9.4 Similarly, for fabricated equipments, the contractor will first submit dimensional detailed drawings for approval before fabrication is taken up in the factory. Suitable stage inspection at factory also will be made to ensure proper use of materials, workmanship and quality control.

## **10. Works to be done by the Contractor:**

Unless and otherwise mentioned in the tender documents, the following works shall be done by the contractor, and therefore their cost shall be deemed to be included in their tendered cost: -

- (i) Foundations for equipments and components where required, including foundations bolts.
- (ii) Cutting and making good all damages caused during installation and restoring the same to their original finish.
- (iii) Sealing of all floor openings provided by him for pipes and cables, from fire safety point of view, after laying of the same.
- (iv) Painting at site of all exposed metal surfaces of the installation other than pre-painted items like fittings, fans, switchgear/distribution gear items, cubicle switchboard etc. Damages to finished surfaces of these items while handling and erection, shall however be rectified to the satisfaction of the Engineer-in-charge.
- (v) Testing and commissioning of completed installation.

## **11. Storage and Custody of Materials:**

Suitable and lockable storage accommodation shall be provided by the Department free of cost to the contractor.

However, the watch and ward of the stores and their safe custody shall be his responsibility till the final taking over of the installation by the Department.

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**12. Electric Power Supply and Water Supply:**

Unless and otherwise specified, power supply and water supply will be arranged by the Contractor at the site for installation purpose. However, for testing purpose, Electricity Supply will be made available *free of cost* to the Contractor. Contractor will take due care to ensure safety of Electrical installation during execution of work.

**13. Tools for handling and erection:**

All tools and tackles required for handling of equipments and materials at site of work as well as for their assembly and erection and also necessary test instruments shall be the responsibility of the contractor.

**14. Ratings of Components:**

- (a) All components in a wiring installation shall be of appropriate ratings of voltage, current, and frequency, as required at the respective sections of the electrical installation in which they are used.
- (b) All conductors, switches and accessories shall be of such size as to be capable of carrying the maximum current, which will normally flow through them, without their respective ratings being exceeded.

**15. Conformity to standards:**

- (a) All components shall conform to relevant Indian Standard Specifications, wherever existing. Materials with ISI certification mark shall be preferred.
- (b) A broad list of relevant Indian Standards is given in Appendix D. These Indian Standards, including amendments or revisions thereof upto the date of tender acceptance, shall be applicable in the respective contracts.

**16. Interchangeability:**

Similar parts of all switches, lamp holders, distribution fuse boards, switchgears, ceiling roses, brackets, pendants, fans and all other fittings of the same type shall be interchangeable in each installation.

**17. Workmanship:**

17.1 Good workmanship is an essential requirement to be complied with. The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.

17.2 Proper supervision/skilled workmen:

The contractor shall be a licensed electrical contractor of appropriate class suitable for execution of the electrical work.

He shall engage suitably skilled/licensed workmen of various categories for execution of work supervised by supervisors / Engineer of appropriate qualification and experience to ensure proper execution of work. They will carry out instructions of Engineer-in-charge and other senior officers of the Department during the progress of work.

17.3 Use of quality materials:

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Only quality materials of reputed make as specified in the tender will be used in work.

**17.4 Fabrication in reputed workshop:**

Switch boards and LT panels shall be fabricated in a factory/workshop having modern facilities like quality fabrication, seven tank process, powder/epoxy paint plant, proper testing facilities, manned by qualified technical personnel. The tender shall specify some quality makes of fabricators with modern facilities of design, fabrication and testing capable of delivering high quality LT panels and switch boards after testing as per relevant specifications.

**18. Testing:**

All tests prescribed in these General Specifications, to be done before, during and after installation, shall be carried out, and the test results shall be submitted to the Engineer-in-charge in prescribed Form, forming part of the Completion Certificate.

**19. Commissioning on Completion:**

After the work is completed, it shall be ensured that the installation is tested and commissioned.

**20. Completion Plan and Completion Certificate:**

- (i) For all works completion certificate after completion of work as given in Appendix-E shall be submitted to the Engineer-in-charge.
- (ii) Completion plan drawn to a suitable scale in tracing cloth with ink indicating the following, along with three blue print copies of the same shall also be submitted.
  - (a) General layout of the building.
  - (b) Locations of main switchboard and distribution boards, indicating the circuit numbers controlled by them.
  - (c) Position of all points and their controls.
  - (d) Types of fittings, viz. fluorescent, pendants, brackets, bulk head, fans and exhaust fans etc.
- (e) Name of work, job number, accepted tender reference, actual date of completion, names of Division/Sub-Division, and name of the firm who executed the work with their signature.

**21. Co-ordination with local Supply Authority:**

The power requirement should be assessed, in consultation with the owner/users, and discussion should be held with the Electricity supply authority to decide on location/space required for Electricity supply equipment/meter and tariff involved. The agency has to liaison with all the authority as per recommendation and consultation with Engineer-in-charge.

**22. Guarantee (For Internal Electrical Installation):**



The installation will be handed over to the Department after necessary testing and commissioning. The installation will be guaranteed against any defective design/workmanship. Similarly, the materials supplied by the contractor will be guaranteed against any manufacturing defect, inferior quality. The guarantee period will be for a period of 12 months from the date of handing over to the Department. Installation/equipments or components thereof shall be rectified/ repaired to the satisfaction of the Engineer-in-charge.

## **METALLIC CONDUIT WIRING SYSTEM**

### **1.0 SCOPE**

This chapter covers the detailed requirements for wiring work in metallic conduits. This chapter covers both surface and recessed types of works.

### **1.1 APPLICATION**

- (i) Recessed conduit is suitable generally for all applications. Surface conduit work may be adopted in places like workshops, plant rooms, pump rooms, wiring above false ceiling/below false flooring, and at locations where recessed work may not be possible to be done. The type of work, viz. Surface or recessed, shall be as specified in the respective works.
- (ii) Flexible conduits may only be permitted for interconnections between switchgear, DB's and conduit terminations in wall.

### **1.2 MATERIAL**

#### **1.2.1. Conduits**

- (i) All rigid conduit pipes shall be of steel and be ISI marked. The wall thickness shall be not less than 1.6mm (16 SWG) for conduits upto 32mm dia and not less than 2mm (14 SWG) for conduits above 32mm dia. These shall be solid drawn or reamed by welding, and finished with galvanized or stove enameled surface.
- (ii) The maximum number of PVC insulated cables conforming to IS: 694-1990 that can be drawn in one conduit is given size wise in Table I, and the number of cables per conduit shall not be exceeded. Conduit sizes shall be selected accordingly in each run.
- (iii) No steel conduit less than 20mm in diameter shall be used.

#### **2.2.2 Conduit accessories**

- (i) The conduit wiring system shall be complete in all respects, including their accessories.
- (ii) All conduit accessories shall be of threaded type, and under no circumstances pin grip type or clamp grip type accessories shall be used.
- (iii) Bends, couplers etc. shall be solid type in recessed type of works and maybe solid or inspection type as required, in surface type of works.
- (iv) (a) Saddles for surface conduit work on wall shall not be less than 0.55mm(24 gauges) for conduits upto 25mm dia and not less than 0.9mm (20gauges) for larger diameter. The corresponding widths shall be 19mm& 25mm.

(b) The minimum width and the thickness of girder clips used for fixing conduits to steel joists, and clamps shall be as per Table II.

### 2.2.3 Outlets:

- (i) The switch box or regulator box shall be made of metal on all sides, except on the front. In the case of cast boxes, the wall thickness shall be at least 3mm and in case of welded mild steel sheet boxes, the wall thickness shall not be less than 1.2mm (18 gauge) for boxes upto a size of 20 cm x 30 cm, and above this size 1.6mm (16 gauge) thick MS boxes shall be used. The metallic boxes shall be duly painted with anticorrosive paint before erection as per chapter 15 of these Specifications.
- (ii) (a) Outlet boxes shall be of one of the size, covered in the Schedule of Rates (Elect.)-2012
- (b) Where a large number of control switches and/or fan regulators are required to be installed at one place, these shall be installed in more than one outlet box adjacent to each other for ease of maintenance.
- (iii) An earth terminal with stud and 2 metal washers and terminal block shall be provided in each MS box for termination of protective conductors and for connection to socket outlet/metallic body of fan regulator etc.
- (iv) A metal strip shall be welded/screwed, to the metal box as support if tumbler type of control switches, sockets and/or fan regulators in flush pattern.
- (v) Clear depth of the box shall not be less than 60 mm and this shall be increased suitably to accommodate mounting of fan regulators in flush pattern.
- (vi) The fan regulators can also be mounted on the switch box covers, if so stipulated in the tender specifications, or if so directed by the Engineer-in-Charge.
- (vii) Except where otherwise stated, 3mm thick phenolic laminated sheets as per clause 3.14.(c). shall be fixed on the front with brass screws, or aluminium alloy/cadmium plated iron screws as approved by the Engineer-in-Charge.

## 2.3. INSTALLATION

### 2.3.1 Common aspects for recessed and surface conduit works.

- (i) Conduit joints
  - (a) The conduit work of each circuit or section shall be completed before the cables are drawn in.
  - (b) Conduit pipes shall be joined by means of screwed couplers and screwed accessories only. Threads on conduit pipes in all cases shall be between 13mm to 19mm long, sufficient to accommodate pipe to full threaded portion of couplers or accessories.
  - (c) Cut ends of conduit pipes shall have no sharp edges, nor any burrs left to avoid damage to the insulation of the conductors while pulling them through such pipes.
  - (d) The Engineer-in-Charge, with a view to ensuring that the above provision has been carried out, may require that the separate lengths of conduit etc., after they have been prepared, shall be submitted for inspection before being fixed.
  - (e) No bare threaded portion of conduit pipe shall be allowed, unless such bare threaded portion is treated with anticorrosive preservative or covered with approved plastic compound.
- (ii) Bends in conduit

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(a) All necessary bends in the system, including diversion, shall be done either by neatly bending the pipes without cracking with a bending radius of not less than 7.5 cm, or alternatively, by inserting suitable solid or inspection type normal bends, elbows or similar fittings, or by fixing cast iron inspection boxes, whichever is most suitable.

(b) No length of conduit shall have more than the equivalent of four quarter bends from outlet to outlet.

(c) Conduit fittings shall be avoided as far as possible on conduit system exposed to weather. Where necessary, solid type fittings shall be used.

(iii) Outlets

(a) All outlets such as switches, wall sockets etc. may be either flush mounting type, or of surface mounting type, as specified in the Additional Specifications.

(b) All switches (except piano type switches), socket outlets and fan regulators shall be fixed on metal strips which shall be screwed /welded to the box. Piano type switches and accessories shall be fixed on the phenolic laminated sheet covers in flush pattern.

(iv) Painting after erection

After installation, all accessible surfaces of conduit pipes, fittings, switch and regulator boxes etc. shall be painted in compliance with the clauses under Chapter 15 – “Painting”.

### 2.3.2 Additional requirements for surface conduit work.

(i) Painting before erection.

The outer surface of conduit including all bends, unions, tees, junction boxes etc. forming part of the conduit system, shall be adequately protected against rust when such system is exposed to weather, by being painted with 2 coats of red oxide paint applied before they are fixed.

(ii) Fixing conduit on surface.

(a) Conduit pipes shall be fixed by saddles, secured to suitable approved plugs with screws in an approved manner at an interval of not more than one meter, but on either side of the couplers or bends or similar fittings, saddles shall be fixed at a distance of 30 cm from the center of such fittings.

(b) Where conduit pipes are to be laid along the trusses, steel joists etc. the same shall be secured by means of saddles or girder clips or clamps as required by the Engineer-in-charge.

(c) In long distance straight run of conduit, inspection type couplers at reasonable intervals shall be provided, or running threads with couplers and jam nuts shall be provided.

(iii) Fixing outlet boxes.

Only portion of the switch box shall be sunk in the wall, the other portion being projected out for suitable entry of conduit pipes into the box.

### 2.3.3 Additional requirements for recessed conduit work

(i) Making chase

(a) The chase in the wall shall be neatly made and of ample dimensions to permit the conduit to be fixed in the manner desired.

(b) In the case of buildings under construction, the conduits shall be buried in the wall before plastering, and shall be finished neatly after erection of conduit.

(c) In case of exposed brick / rubber masonry work, special care shall be taken to fix the conduit and accessories in position along with the building work.

(ii) Fixing conduits in chase

(a) The conduit pipe shall be fixed by means of staples, J-hooks, or by means of saddles, not more than 60 cm apart or by any other approved means of fixing.

(b) All threaded joints of conduit pipes shall be treated with some approved preservative compound to secure protection against rust.

(iii) Fixing conduits in RCC work

(a) The conduit pipes shall be laid in position and fixed to the steel reinforcement bars by steel binding wires before the concreting is done. The conduit pipes shall be fixed firmly to the steel reinforcement bars to avoid their dislocation during pouring of cement concrete and subsequent tamping of the same.

(b) Fixing of standard bends or elbows shall be avoided as far as practicable, and all curves shall be maintained by bending the conduit pipe itself with a long radius, which will permit easy drawing in of conductors.

(c) Location of inspection / junction boxes in RCC work should be identified by suitable means to avoid unnecessary chipping of the RCC slab subsequently to locate these boxes.

(iv) Fixing inspection boxes

(a) Suitable inspection boxes to the minimum requirement shall be provided to permit inspection and to facilitate replacement of wires, if necessary.

(b) These shall be mounted flush with the wall or ceiling concrete. Minimum 65mm depth junction boxes shall be used in roof slabs and the depth of the boxes in other places shall be as per IS: 2667-1988.

(c) Suitable ventilating holes shall be provided in the inspection box covers.

(v) Fixing switch boxes and accessories.

Switch boxes shall be mounted flush with the wall. All outlets such as switches, socket outlets etc. shall be flush mounting type, unless otherwise specified in the Additional Specifications.

(vi) Fish wire

To facilitate subsequent drawing of wires in the conduit, GI fish wire of 1.6mm/1.2mm (16/18 SWG) shall be provided along with the laying of the recessed conduit.

(vii) Bunching of Cables

(a) Cables carrying Direct Current may, if desired, be bunched whatever their polarity, but cables carrying alternating current, if installed in metal conduit shall always be bunched so that the outgoing and return cables are drawn into the same conduit.

(b) Where the distribution is for single phase loads only, conductors for these phases shall be drawn in one conduit.

(c) In case of three phase loads, separate conduits shall be run from the distribution boards to the load points, or outlets as the case may be.

#### **2.3.4 Earthing requirements**

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- (i) The entire system of metallic conduit work, including the outlet boxes and other metallic accessories, shall be mechanically and electrically continuous by proper screwed joints, or by double check nuts at terminations. The conduit shall be continuous when passing through walls or floors.
  - (ii) A protective (loop earthing) conductor(s) shall be laid inside the conduit between the metallic switch boxes and distribution switch boards and terminated with proper earth lugs/ terminals. Only PVC insulated copper conductor cable of specified size green in colour shall be allowed.
  - (iii) The protective conductors shall be terminated properly using earth studs, earth terminal block etc. as the case may be.
  - (iv) Gas or water pipe shall not be used as protective conductor (earth medium).

### **3. Wiring:**

#### **3.1 Sub-main & Circuit wiring:**

##### **(a) Sub-main wiring:**

Sub-main wiring shall mean the wiring from one main/distribution switchboard to another.

##### **(b) Circuit wiring:**

Circuit wiring shall mean the wiring from the distribution board to the 1st. tapping point inside the switch box, from where point wiring starts.

### **4. Point wiring:**

#### **4.1 Definition**

A point (other than socket outlet point) shall include all work necessary in complete wiring to the following outlets from the controlling switch or MCB.

- (a) Ceiling rose or connector (in the case of points for ceiling/exhaust fan points, prewired light fittings, and call bells).
- (b) Ceiling rose (in case of pendants except stiff pendants).
- (c) Back plate (in the case of stiff pendants).
- (d) Lamp holder (in the case of goose neck type wall brackets, batten holders and fittings which are not prewired).

#### **4.2 Scope:**

Following shall be deemed to be included in point wiring.

- (a) Conduit/channel as the case may be, accessories for the same and wiring cables between the switch box and the point outlet, loop protective earthing of each fan/light fixture.
- (b) All fixing accessories such as clips, screws, Phil plug, rawl plug etc. as required.
- (c) Metal or PVC switch boxes for control switches, regulators, sockets etc, recessed or surface type, and phenolic laminated sheet covers over the same.
- (d) Outlet boxes, junction boxes, pull-through boxes etc. but excluding metal boxes if any, provided with switchboards for loose wires/conduit terminations.

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- (e) Control switch or MCB, as specified.
  - (f) 3 pin or 6 pin socket, ceiling rose or connector as required. (2pin and 5pin socket outlet shall not be permitted unless and otherwise specified in schedule of work).
  - (g) Connections to ceiling rose, connector, socket outlet, lamp holder, switch etc.
  - (h) Bushed conduit or porcelain tubing where wiring cables pass through wall etc.
- (Note: In areas where false ceiling are provided, termination of wires should be at the fittings, Flexible conduits from ceiling junction box to the fittings shall be provided duly coupled at both ends. This shall be included within the scope of point wiring.)
- (i) Interconnecting wiring between switches within the switch box on the same circuit.

### **Wiring System:**

- (i) Wiring shall be done only by the looping system. Phase/live conductors shall be looped at the switch box. For point wiring, neutral wire/earth wire looping for the 1st point shall be done in the switch box; and neutral/earth looping of subsequent points will be made from point outlets.
- (ii) In wiring, no joints in wiring will be permitted anywhere, except in switch box or point outlets, where jointing of wires will be allowed with use of suitable connector.
- (iii) The wiring throughout the installation shall be such that there is no break in the neutral wire except in the form of linked switchgear.
- (iv) Light, fans and call bells shall be wired in the 'lighting' circuits. 15A/16A socket outlets and other power outlets shall be wired in the 'power' circuits. 5A/6A socket outlets shall also be wired in the 'power' circuit both in residential as well as non-residential buildings.

### **(v) Colour coding:**

Following colour coding shall be followed in wiring:-

Phase : Red/Yellow/Blue.(Three phase wiring)

Live : Red (Single phase wiring)

Neutral : Black

Earth : Yellow/Green.

### **(vi) Termination of circuit into switchboard:-**

Circuit will consist of phase/neutral/earth wire. Circuit will terminate in a switch (first tapping point, where from point wiring starts) in following manner:-

Phase wire terminated in phase connector.

Neutral wire terminated in neutral connector.

Earth wire terminated in earth connector.

The switchboard will have phase neutral and earth terminal connector blocks to receive phase/ neutral/earth wire.

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**Passing through walls or floors:**

- (i) When wiring cables are to pass through a wall, these shall be taken through a protection (steel/ PVC) pipe or porcelain tube of suitable size such that they pass through in a straight line without twist or cross in them on either porcelain, PVC or other approved material.
- (ii) All floor openings for carrying any wiring shall be suitably sealed after installation.

**Joints in wiring:**

- (i) No bare conductor in phase and/or neutral or twisted joints in phase, neutral, and/or protective conductors in wiring shall be permitted.
- (ii) There shall be no joints in the through-runs of cables. If the length of final circuit or sub-main is more than the length of a standard coil, thus necessitating a through joint, such joints shall be made by means of approved mechanical connectors in suitable junction boxes.
- (iii) Termination of multistranded conductors shall be done using suitable crimping type thimbles.

## **SPECIFICATION FOR MAIN MV PANEL**

**CONSTRUCTION FEATURES:****1. GENERAL**

1.1. MV switch board shall be sheet steel cubicle, indoor, floor mounting, dead front, free standing type. The design shall be totally enclosed, completely dust tight and vermin proof. The sheet steel used shall be 2 mm thick, gasket of 19 mm wide and 2mm thick shall be used between all adjacent fixed units and 1.6mm between all adjacent removal units beneath all covers to render the joints effectively dust proof. Sheet steel work shall be machine made and shall be of high quality. All openings and cut-outs in the door shall be free from burrs. Weld runs shall be ground smooth. All sheet surfaces shall be free from dents and hammer marks. A base channel of 100mm x 50mm x 6mm painted black shall be provided to prevent corrosion of the sheet steel cubicles and facilitate cleaning. Minimum clearance of 250mm between floor level and bottom most unit shall be provided.

1.2. Structure of frame work and end covers shall be such as to require minimum number of screws visible from outside. The frame work shall be made of steel sheets folded to impart strength which will also serve as continuous barriers between logically arranged switch board compartments. The arrangement of horizontal and vertical busbars, switchgear compartment and cable space shall be based on modular constructions.

1.3. The switch boards arrangement shall be logically compact and neat. Each module shall be fitted with individual dust proof doors and provided with insulated thumb screws. The switch board shall have a uniform height and depth throughout its length and shall present a flush appearance. The maximum operating height shall not exceed 2000mm. The maximum height of the panel shall not exceed 2200mm. Adequate

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lifting facilities shall be provided for each shipping section to facilitate handling and transport. The compartment door shall be so interlocked that it shall not be possible to open the door with the switch in closed position. Provision for testing switchgears is to be provided. The compartment door shall be lockable type.

1.4. Outgoing links from feeders shall be rightly supported and suitable extended in cable chamber for ease of cable connection. Cable lugs and links shall be covered by insulating shields. Barriers shall be provided between the modules accommodating equipment associated with the outgoing circuits. All vertical sections shall have a covering at the bottom so that entry of dust, rats and vermin is not possible.

## **2. HEAVY DUTY COMPOSITE UNITS OF SWITCHES AND FUSES**

All switches shall be suitable to be operated from the front and shall conform to IS 4047. The rating of the switch fuses shall be as specified. Outgoing feeders shall be neatly arranged in different compartments. Switches for individual feeders shall be accommodated in separate modules.

## **3. BUSBARS**

Three phase and neutral bus bars made of aluminium alloy shall be provided not to exceed rating of 1.30A/sq.mm after considering the deration. Aluminium alloy used for busbars and connections shall be equivalent to (E91-EWP) class of IS 5082/1969. Busbars shall be housed in separate bus bar chamber. Horizontal Bus bar shall extend throughout the length of panels. The bus bar shall be suitably braced to withstand the fault level and shall be supported on unbreakable non-hygroscopic hylum sheets rigidly held to the frame works of the chamber. Busbar chamber shall have a separate screwed cover and colour codes shall be provided to identify the various phase of the busbars. Vertical busbar shall be arranged as close as possible to the units. The connections between the horizontal and vertical busbars shall be short and neat. All busbars and connections shall be suitably sleeved with PVC sleeves. Clearance between phases shall not be less than 32 mm and minimum clearance to earth shall not be less than 26 mm.

## **4. CABLE COMPARTMENTS**

A full height compartment running behind the vertical modules shall be provided for easy termination of all incoming and outgoing cables entering either from top or bottom. Adequate supports shall be provided for the cable wherever necessary. The cable compartment shall have its own hinged cover which can be removed for easy access during cabling.



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## **5. INTERCONNECTION AND CONTROL WIRING**

Switch Board shall be completely factory wired ready for connecting to the equipment. Power connection of the circuit shall be done by Aluminium flats or by adequate size of PVC insulated stranded copper wires. Control wiring shall be done by PVC insulated copper wires of minimum size 1.5 sq.mm All control wiring shall be fitted with identical identification ferrule at each end and not more than two connection shall be made at any one terminals. The wires shall be arranged and supported in such a manner that there shall be no strain on terminations.

## **6. TERMINAL ARRANGEMENTS**

The terminals shall be of adequate current rating and size to suit individual feeder requirements. Cable lugs for terminations shall be mounted in such a manner so as to facilitate easy cable connection. Terminals shall be mounted in cable compartment. Tap off connection at the busbar shall be made with nuts, bolts and washers. Busbar shall not be threaded for terminating wire connection.

## **7. CABLE ENTRY**

The switch board shall be designed to facilitate Aluminium conductor PVC cable entry from top or bottom as the case may be. Removable sheet steel plate provided with suitable size of cable gland as specified shall be fitted at the top or bottom. Arrangement can be made to receive busbar trunking wherever specified.

## **8. INDICATING INSTRUMENTS/LAMPS**

The indicating instruments shall be of reputed make conforming to relevant IS. The arrangement of the instrument shall be logical. The size of the instrument shall be as specified.

## **9. LABELS**

Engraved PVC labels shall be provided on all the incoming and outgoing feeder compartments. The exact legend to be engraved will be furnished.

## **10. EARTH BUSBARS**

The earth busbar shall be of 100mm x 5mm G.I flat

## **11. PAINTING**

All sheet works shall undergo a process of degreasing, pickling in acid, cold rinsing, phosphating, passivating and then be sprayed with high corrosion resistant primer. The primer shall be baked in an oven. The finishing treatment shall be by application of two coats of synthetic paint of approved shade by spray.

## **12. INSTALLATION**

MV panels shall be floor mounted. The installation work shall cover assembly of various sections of the panel including grouting the units etc. A common earth busbar shall run at the back of the panel connecting

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all the sections for connection to frame to the earth system. All protection and other wiring for indications etc. shall be completed before calibration and commissioning checks are commenced.

### **13. TESTING AND COMMISSIONING**

Commissioning checks and tests shall include all wiring checks and checking up connections. Primary/secondary injection tests for the relay adjustment/setting shall be done before commissioning in addition to routine megger test. Check and test shall include the following:

- a. Operation checks and lubrication of all moving parts
- b. Continuity checks of wiring, fuses etc. as required
- c. Insulation test when measured with 500V megger. The insulation resistance shall not be less than 100 MΩ.

## **SPECIFICATION FOR EARTHING SYSTEM**

### **SCOPE:**

The Section covers the general requirements of the earthing system for EI works.

### **TECHNICAL:**

1. The earthing system shall comprise of earth electrodes in accordance with General Specification for Electrical works (Part-I Internal 2013).
2. For every panel two separate and distinct earth electrodes shall be provided for body earthing.
3. Normally the earth electrodes shall not be situated at less than 1500mm from any building.
4. The earth electrodes shall be provided in accordance with the general specification for Electrical Works (Part-I Internal 2013) amended upto date.
5. Joints in the earth bars shall be bolted and the joints faces shall be tinned to ensure a permanent low resistance contact.
6. All steel bolts, nuts, washers etc. shall be cadmium plated.
7. The earthing shall be suitably protected from mechanical injury by galvanized iron pipe wherever it passes through wall and ground.
8. The portion of earth bar within ground shall be buried at least 600mm deep.

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9. All the equipments shall be connected directly to the two earth bus bar terminations of the earth electrodes and shall not be looped from equipment to equipment or from in between the earth strips/bars.

**TESTING:**

The test as specified in general specifications for electrical works (Part-I Internal 2013) shall be carried out and results recorded

## **SPECIFICATION FOR CABLING**

**1. SIZE:**

- a) M.V. cable shall be 3½ / 4 cores PVC insulated PVC sheathed/XLPE aluminum conductor armoured cables of sizes indicated in the schedule.
- b) All control cables shall be of 1.1 KV grade copper PVC insulated copper wire of size not less than 1.5 Sq.mm.

**2. LAYING:**

- a) All cables shall be laid in ground, trenches or on walls, trays as may be specified and as per schematic diagram.
- b) The work shall be carried out strictly in accordance with general specifications for electrical works (Part- I Internal) amended up to date.
- c) All cables shall be clamped properly when laid along the wall /ceiling/ cable tray.

**3. JOINTING:**

The cable jointing work shall be carried out only by a licensed and experienced cable jointer and shall be in accordance with general specification for electrical works Part- I Internal.

**4. TESTING:**

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Testing of complete cable installation shall be done as provided in general specification for electrical works (Part- I Internal) amended up to date.

## **SPECIFICATIONS FOR ADDRESSABLE FIRE ALARM SYSTEM**

### **1. INTELIGENT/ANALOG ADDRESSABLE FIRE ALARM SYSTEM**

#### **1.1.0 SCOPE OF WORK**

1.1.1 The scope of work shall include design, supply, and installation, testing, and commissioning of Analogue Addressable Fire Detection cum Alarm System.

This shall conform to relevant latest standards for fire alarm systems.

1.1.2 All wirings shall be done using 2 core x 1.5 sqmm PVC insulated armoured copper cable.

1.1.3 OEM of the system should be approved by UL/FM/EN54/VDS/ LPCB.

### **ANNEXURE – I**

## **COMPLIANCE STATEMENT**

We \_\_\_\_\_ (name of the firm) state to comply in full manner with all the General, commercial, Technical, operating financial conditions of the Tender Document for the work **“Providing EI & Fans, LT Panel, AC units, AFD system and other miscellaneous works for Telepresence Studio under NFS Project at Rangapahar, Nagaland. 3<sup>rd</sup> CALL.”** without any reservation and deviation.

For and on behalf of (Name the company)

Signature of the authorized signatory of the bidder company.

## ANNEXURE - II

### MODEL FORM OF BANK GUARANTEE

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

Whereas \_\_\_\_\_ (hereinafter called "The Contractor(s)") has submitted its Tender dated \_\_\_\_\_ for \_\_\_\_\_ (Name of work) \_\_\_\_\_ KNOW ALL MEN by these Presents that WE \_\_\_\_\_ OF \_\_\_\_\_ having our registered office at \_\_\_\_\_ (hereinafter called "The Bank") are bound unto **ACCOUNTS OFFICER (CASH), O/O GMTD, BSNL, NAGALAND SSA, DIMAPUR** hereinafter called "The Purchaser") in the sum of \_\_\_\_\_ for which payment will and truly to be made of the said Purchaser, the Bank binds itself, its successors and assigns by 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 the Purchaser during the period of Tender validity.
  - (a) Fails or refuses to execute the Contract.
  - (b) Fails or refuses to furnish Security Deposit in accordance with the conditions of Tender document.

WE undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand, the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force as specified in the Tender Document up to and including Thirty (30) days after the period of the Tender validity, and any demand in respect thereof should reach the Bank not later than the specified date/dates.

Signature of the Bank Authority

Signature of the Witness

Name of Witness

Address of Witness

### ANNEXURE – III

#### PERFORMANCE SECURITY GURANTEE BOND

1. In consideration of the CMD, BSNL (hereinafter called 'BSNL') having agreed to exempt \_\_\_\_\_ (hereinafter called 'the said contractor(s)') from the demand under the terms and conditions of an agreement/Advance Purchase Order No. \_\_\_\_\_ dated: \_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ for the supply of \_\_\_\_\_ (hereinafter called "the said agreement"), of security deposit for the due fulfilment by the said contractor (s) of the terms and conditions contained in the said Agreement, on production of the bank guarantee for \_\_\_\_\_ we, (name of the bank) \_\_\_\_\_ (hereinafter refer to as "the bank") at the request of \_\_\_\_\_ (contractor(s)) do hereby undertake to pay to the BSNL an amount not exceeding against any loss or damage caused to or suffered or would be caused to or suffered by BSNL by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.
2. We (name of the bank) \_\_\_\_\_ do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the BSNL by reason of breach by the said contractor(s)' of any of the terms or conditions contained in the said Agreement or by reason of the contractors(s)' failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of BSNL in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding \_\_\_\_\_.
3. We undertake 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

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discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.

4. We (name of the bank) \_\_\_\_\_ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the BSNL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till \_\_\_\_\_(office/Department) BSNL certifies that the terms and conditions of the said Agreement have been fully or properly carried out by the said contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of ONE YEAR after actual completion of work.
5. We (name of the bank) \_\_\_\_\_ further agree with the BSNL that the BSNL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the BSNL against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the BSNL or any indulgence by the BSNL to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/supplier(s).
1. We (name of the bank) \_\_\_\_\_ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the BSNL in writing.

Dated the \_\_\_\_\_ day of \_\_\_\_\_

for \_\_\_\_\_ (Indicate the name of the Bank)

### ANNEXURE-IV

#### A.LIST OF APPROVED MAKES OF BSNL ELECTRICAL WING

Sl. No.	Item	Makes
1	Engine	Ashok Leyland /Cummins/ Cater pillar / KOEL/ Volvo Penta / Mahindra & Mahindra (up to 200 KVA) /Escorts (up to 30 KVA)/ Eicher (up to 35 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 / manufacture approved make in case battery is of same make as that of Engine and supplied by the Manufacturer only ( Kirloskar, Cummins pulse etc)
4	HV Switchgear (Vacuum Circuit Breaker/SF6 )	BieccoLawrie / Crompton / Kirloskar / MEI / Jyoti Ltd
5	Transformer (Oil filled / Dry type)	ABB / Schneider Electric /Andrew Yule / Bharat Bijlee / Crompton / EMCO / Kirloskar / Siemens
	a) Above 400 KVA	
	b) Up to 400 KVA	In addition to above makes, Uttam/Automatic Electric Gear(AEG)/Patson/Rajasthan Transformer and Switchgear
6	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
7	MCCB(Ics=Icu)	L&T/ Schneider Electric / Siemens
8	SDF units	L&T/ Schneider Electric / Siemens/ HPL/Havells
9	Power Contactors	L&T/ Schneider Electric / Siemens/ Lakshmi(LECS)
10	Change Over Switch	HPL / 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/ KWHRmeter	Schneider Electric/ AE/ Digitron / IMP/ Meco / Rishabh / Universal/HPL/L&T/ABB
15	Cold shrink HT/LT Cable Joint	Denson / 3M(M-Seal )/ Raychem
16	Rubber Matting	ISI mark
17	MCB/ Isolator /ELCB/RCCB/ Distribution Board	Crompton / Havells / Indokopp / MDS Legrand/ L&T / Schneider Electric/ Siemens / Standard/ C&S/ABB/HPL
18	MS/ PVC Conduit	ISI mark
19	Cable Tray	MEM/Bharti/Ratan/Slotco/Profab
20	HT/LT Cables	ISI mark
21	PVC insulated copper conductor wire	ISI mark
22	Centrifugal Pump	Amrut / BE / Beacon / Batliboi / Crompton / Jyoti / Kirloskar / KSB / Mather &platt / WASP/Grundfos
23	Submersible Pump	Crompton/Amrut / BE / Calama / Kirloskar / KSB
24	Motors	ABB/ Bharat Bijlee / Crompton Greaves / Schneider Electric / HBB / KEC / Siemens/Jyoti Ltd
25	Fresh Air Fans	GE / Khaitan/Almonard/Crompton
26	Starter	ABB / BCH / Schneider Electric / L&T / Siemens /
27	Single Phase Preventer	L&T / Minilec / Siemens / Zerotrip
28	GI/MS Pipe	ATC / ATL / BST / GSI / ITC / ITS / IIA / JST / Jindal /TTA / Tata/Zenith
29	Foot Valve	ISI mark
30	Gate Valve	Advance/Audco/Johnson Controls/Zoloto/Annapurna / Fountain / Kirloskar / Leader / Sant / Trishul
31	Compressors	Matsushita/Hitachi/Toshiba/GMCC/Carrier/ Emerson /LG/ Tecumseh/Danfoss
32	Resin Bonded Glass wool	Fibre Glass / Pilkington / 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	HSU Jindal / National / Nippon Denro / Sail / Tata

38	Heat Detector	Appollo / Chemtron/ Edward / Fenwal/ Hochiki / Nitton /System Sensor/ Wormald/Honeywell Essar/Notifier/ Ravel Elect.
39	Ionization Detector	Appollo / Cerebrus / Edward/ /Fenwal / Hochiki / Nitton / System Sensor / Wormald/Ravel Elect.
40	Photo Electric Smoke Detector	Appollo / Cerebrus / Edward / Fenwal/ Hochiki / Nitton / Wormald / System Sensors/Ravel Elect.
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, Thyssenkrupp Elevator(India)

**NOTE:**

1. Any other make approved by BSNL EW, corporate office till the last date of sale of tender is also acceptable.
2. The accessories such as CT/PT/measuring instrument/relays provided by approved make in respect of Transformer/HT Panel/DG /AC Package Units as supplied by approved manufacturer along with the equipments are also acceptable in addition.

**B. APPROVED MAKES FOR ITEMS NOT COVERED IN 'A'**

Sl. No.	Item	Makes
1	1.5TR Inverter AC Unit	Panasonic /Universal comfort(Voltas) /Hitachi / LG / Carrier / Daikin / Mitsubishi /O-General /BlueStar/ Samsung /Godrej /Lloyd/Haieror similar superior make * Make of compressor supplied along with the above – meeting all the specifications, will be acceptable in addition to the makes mentioned at page no. 64
2	Water Cooler	Voltas/Bluestar or similar superior make.
3	Ceiling/Exhaust Fans	Crompton/Havells/Usha/Orient or similar superior make.
4	Lights and Fixtures	Crompton/Wipro/Phillips/Havells or similar superior make.

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## ANNEXURE – V

### Declaration by Contractor

1. I / We do hereby undertake to have gone through the terms & conditions / clauses of all the tender documents including Form EW-6, EW-8 being adopted by the BHARAT SANCHAR NIGAM LIMITED (Electrical Wing) & agree to abide by the same.
  
2. I/we hereby declare that no addition /deletion/correction have been made in the tender document submitted and is identical to the tender document appearing on website.

In case of failure to comply as above, our offer will stand withdrawn and 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**

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**ANNEXURE - VI**

**UNDERTAKING TO ABIDE BY EW-6 & EW-8**

"I \_\_\_\_\_ Son of \_\_\_\_\_  
\_\_\_\_\_ Resident of \_\_\_\_\_  
\_\_\_\_\_ hereby give an undertaking that, I have read and I am  
aware of all the clauses and sub clauses of BSNL EW-6 & EW-8 forms and I confirm that, I will abide by all the terms  
and conditions available in original standard BSNL EW-6 & EW-8 forms.

**(Seal of the firm)**

**(Dated Signature of Contractor)**

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**ANNEXURE-VII**

**Non Relative Certificate**

**(The format of the certificate as per clause 12.3 of EW-6)**

I \_\_\_\_\_ son of Shri \_\_\_\_\_  
\_\_\_\_\_ resident of \_\_\_\_\_  
\_\_\_\_\_ hereby 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)**

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**ANNEXURE-VIII**

**UNDERTAKING REGARDING EPF PROVISIONS**

"I \_\_\_\_\_ Son of \_\_\_\_\_  
 \_\_\_\_\_ Resident of \_\_\_\_\_  
 \_\_\_\_\_ hereby give an undertaking that

\* I/We have employed only \_\_\_\_\_ persons in our establishment and hence the EPF and Miscellaneous provision Act, 1952 is not applicable to my /our establishment.

\* I/ We have registered as per the EPF and Miscellaneous provisions Act, 1952 \*\* and our registration no is \_\_\_\_\_ . We undertake to keep it valid during the currency of contract.

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".

\* Strike out whichever is not applicable.

\*\* Attach a self-attested photo copy of the above said EPF registration certificate.

**(Seal of the firm)**

**(Dated Signature of Contractor)**

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**ANNEXURE -IX****UNDERTAKING REGARDING ESI PROVISIONS**

I \_\_\_\_\_ Son of \_\_\_\_\_ Resident of \_\_\_\_\_

hereby declare that:-

\* I/We have employed only \_\_\_\_\_ persons in our establishment and hence the ESI and Miscellaneous provisions Act'1948 is not applicable to my / our establishment.

\* I/We have registered under ESI Act'1948 and \*\* allotted Registration Number is \_\_\_\_\_ We undertake to keep it valid during the currency of contract.

In case it is found that the information given by me / us is (are) incorrect/False, BSNL shall have the absolute right to take any action as deemed fit without any prior intimation to us / me.

\* Strike out whichever is not applicable.

\*\* Attach a self-attested photocopy of the above said ESI Registration Certificate OR self-attested photocopy of the latest ESI contribution slip along with above undertaking on a printed letter head.

**(Seal of the firm)**

**(Dated Signature of Contractor)**