

**E - TENDER DOCUMENT**NIT NO. : - **11/EEE/BSNL/DMP/2019-20**

**NAME OF WORK:** Supply, Installation, Testing and Commissioning of Addressable Fire detection & Fire alarm system for Telepresence Studio under UNMS Project for NFS Work at Rangapahar, Nagaland. 4<sup>th</sup> CALL.

## I N D E X

SL. NO	DESCRIPTION	Page No
1	Index Of Tender	01-01
2	Notice Inviting Tenders (form BSNL EW)	02-08
3	Check List for the tenderer	09-10
4	Information for the bidder(e-tender)	11
5	E-Tendering Instructions to Tenderers	12-13
6	Tender submission format ( for e- tender)	14-16
7	Declaration by Contractor	17
8	Undertaking	18-19
9	Acceptance	20
10	Instructions for Implementation of GST	21-24
11	General rules & directions	25-26
12	Performa for schedule.	27-30
13	BG & Performance security.	31-33
14	Important Note for Contractors.	34-40
15	Performa for Agreement.	41-42
16	Specifications	43-60
17	List of Approved Makes	61-63
18	Un-priced bid and Schedule of Quantities.	64-67
19	EW-8 Form.	-----

Certified that this NIT contains pages **67 (Sixty Seven Only)** pages and Standard Form BSNL EW 8 (General Conditions of Contract for BSNL Works).

# BHARAT SANCHAR NIGAM LIMITED

O/o the Executive Engineer (E)  
BSNL, Electrical Division, 2nd Floor, OC-5, GMTD, Nagaland SSA Super  
Market Complex, Dimapur-797112. Tel. No. 03862-235500,  
email id – [dmpdiv@gmail.com](mailto:dmpdiv@gmail.com)

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

**Division NIT No. :- 11/EEE/BSNL/DMP/2019-20**

The Executive Engineer (E), BSNL Electrical Division, Dimapur invites item rate e-**TENDER for rate contract** on behalf of BHARAT SANCHAR NIGAM LIMITED for the following work from Firms / Contractors satisfying the under mentioned eligibility conditions:-

Name of Work	Estimated Cost Rs.	EMD Rs.	Tender Cost Rs.	Payable at	Period of Completion	Last date & Time of on line submission of Eligibility documents & Bid documents	Last date & Time for submission of Cost of bid document, EMD, Processing Fee and Eligibility documents as per NIT (OFF LINE)	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. (OFF LINE)	Time & Date of Opening of Technical Bid (ONLINE)	Time & Date of Opening of Financial Bid (ONLINE)
1	2	3	4	5	6	7	8	9	10	10
Supply, Installation, Testing and Commissioning of Addressable Fire detection & Fire alarm system for Telepresence Studio under UNMS Project for NFS Work at Rangapahar, Nagaland. 4 <sup>th</sup> CALL.	Rs. 2,50,169.00	Rs. 5,003.00	Rs. 590.00	Account Officer (C), O/o the GMTD, Nagaland SSA	02 (Two) Months	Up to 15.00 Hrs. on 30.10.2019.	Up to 16.00 Hrs. on 30.10.2019.	At 11.00 Hrs. on 31.10.2019.	At 11.30 Hrs. on 31.10.2019.	At 12.30 Hrs. on 31.10.2019.

1. **Eligibility Criteria:** - The Firms who fulfill the following requirements shall be eligible to e-tender.

A. Average annual turnover during the last 3 years, ending 31<sup>st</sup> March of the previous financial year, should be at least 30% of the estimated cost put to tender.

**AND**

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

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

**OR**

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

**OR**

One similar successfully completed work costing not less than the amount equal to 80% of the estimated cost put to tender (**Similar work means work of addressable fire detection & alarm system with microprocessor based control panel .**)

**Note: The work completion certificate issuing authority in respect of above shall not be below the rank of Executive Engineer (E) / Manager.**

2. **Accessibility of Tender Document:** Tender document can be accessed / obtained by downloading it from the website [www.ne2.bsnl.co.in](http://www.ne2.bsnl.co.in). The official copy of tender document for participating in e-Tender shall be available for downloading from [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL), from date **16/10/2019**, and e-tender document closure time/date of downloading (by bidder) from e-tender portal will be 5 Minutes before last time/date of bid submission.

As tenders are invited through e-Tendering process, physical copy of the tender document would not be available for sale.

The bidding process will be accepted only through e-Tendering platform.

2.3(A) Tenderer must submit following documents offline in physical form to The Executive Engineer (E), BSNL Electrical Division Dimapur on or before the due date & time of submission of tender on date 30/10/2019 up to 16.00Hrs. in a Sealed Envelope to be deposited in Tender Box available in O/o Executive Engineer (E) Dimapur. The envelope shall bear the tenderer name, name of work, NIT number and the words "DO NOT OPEN BEFORE (due date & time)"

and also UPLOAD the attested scanned copies of these documents on [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL) These documents shall not be sent through the Courier/Post. The documents received through Courier / Post shall not be opened at all.

- i) EMD amounting **Rs. 5003/-** in the prescribed form. It should be in the form of demand draft / FDR / BG (As per format at Annexure) / CDR of a nationalized / scheduled bank, drawn in favour of **Accounts Officer (Cash) O/o GMTD, Nagaland SSA** must accompany each tender. The Validity period of EMD shall be **90+30 days**, from the date of opening of tender.
- ii) Cost of Bid Document - Demand draft amounting **Rs. 500/- + 18 % GST** (Non refundable) drawn in favour of **Accounts Officer (Cash), O/o GMTD, Nagaland SSA.**
- iii) Authorization Document in original if applicable.

(B) In addition to above documents tenderer shall also up-load the attested scanned copies of following documents with the tender form on [www.tenderwizard.com/BSNLKOL](http://www.tenderwizard.com/BSNLKOL)

- i. Documentary proof of satisfying the eligibility conditions as per 1 above,
- ii. Attested copy of PAN card.
- iii. Valid GST Registration.
- iv. CA certificate for turnover.
- v. CA certificate for deposition of Income Tax.
- vi. Declaration by Contractor- EW-6 / EW-8 & Relative Certificate.
- vii. Original Undertaking -I Regarding Provisions B & II –C by contractors.
- viii. EPF Registration
- ix. Valid ESI Registration
- x. Self Declaration by Contractor that he is not blacklisted by GST Authorities.

**Note-1-** All above mentioned documents shall be self attested & counter attested by any Executive of BSNL/MTNL or gazetted officer of G.O.I. If not counter attested by Executive of BSNL/MTNL or Gazetted officer of GOI then original document is to be produced at the time of tender opening.

2- All above documents must be clearly displayed & seen by the tender opening authority before opening the actual bid. If required, BSNL may ask to submit original copies of credentials for verification after opening of tender at any stage.

- 3- In case the eligibility credentials i/c registration with GST, 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.

( C ) Tenderer must submit following documents Offline in Physical form to

the Executive Engineer (E) BSNL Electrical Division Dimapur on or before the due date and time of submission of tender on date 30/10/2019 up to 16.00Hrs in a sealed Envelope to be deposited in Tender Box available in O/o Executive Engineer (E) Dimapur .The envelope shall bear the tenderer name ,name of work, NIT number and the words “Do Not Open Before(due date & time)” i) Duly Signed copy of ‘TENDER SUBMISSION FORMAT (For e-Tender)’( Page No 13 to 15 of NIT) (ii) Complete E-tender document duly signed & stamped on each page)

Online bid documents submitted by intending bidders shall be opened only of those bidders, whose Earnest Money Deposit and Cost of Bid Document, Authorization Letter if any & Tender Submission Format placed in the envelope are found in order. Tender not accompanied by documents as 2.3(A) above shall be summarily rejected and will remain archived/ unopened.

**Date & Time of Submission of e-Tender:** on or before **15.00 hrs of 30/10/2019**

**Note:** a) In case the date of submission (opening) of bid is declared to be a holiday, the date of submission (opening) of bid will get shifted automatically to next working day at the same scheduled time.

a) Any change in bid opening date due to any other unavoidable reason will be intimated to all the bidders separately.

**Online Opening of e-Tender:** From **12.30 Hrs. of 31/10/2019**

**Place of opening of Tender bids: O/o Executive Engineer (E) BSNL Electrical Division, Dimapur.**

BSNL has adopted e-tendering process which offers a unique facility for ‘Public Online Tender Opening Event (TOE)’. BSNL’s 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. However, if required, authorized representatives of bidders can attend at the O/o the Executive Engineer (E), BSNL Electrical Division, Dimapur, where BSNL’s Tender Opening Officers would be conducting Public Online Tender Opening Event (TOE).

*The tender submitted shall become invalid and tender cost shall not be refunded if:*

- i) The tenderer is found ineligible.
- ii) The tenderer does not upload all the documents as stipulated in the bid document as detailed in PARA 2.3 (A) & (B) above
- iii) The Tenderer not submitted documents in physical form as detailed in PARA-2.3 (A) & (C) above in Tender Box available in the O/o The Executive Engineer (E).
- iv) Any discrepancy is noticed between the documents as uploaded at the time of

submission of bid and hard copies as submitted off line physically in the office of tender opening authority

General Conditions of Contract (BSNLEW-8) for works in BHARAT SANCHARNIGAM LIMITED is available on BSNL website [www.ne2.bsnl.co.in](http://www.ne2.bsnl.co.in) as well as in the Division Office. (For viewing only) Deviation if any in Technical specifications / Commercial Terms & Conditions of DNIT will be given by the firm on its letter head duly signed & same shall be uploaded. In the absence of such letter it will be assumed that there are no deviations.

3. a) The site for the work shall be made available in part. Agreement for work shall be framed by the concerned Executive Engineer [E]. In case agency fails to start the work Performance Guarantee for the awarded amount shall be forfeited.
- b) 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.
4. Agreement shall be drawn with the successful Tenderer on prescribed Form No. BSNL EW6 & 8, which is available in the **O/o Executive Engineer (E), BSNL Electrical Division, Dimapur**. Tenderer shall quote his rates as per various terms and conditions of the said form.
5. The time allowed for carrying out the work will be as mentioned in the above table.
6. a) The EMD of all the unsuccessful tenderer shall be released on issue of award letter to the successful tenderer. This shall be done within one week of award letter.
- b) Exemption from payment of earnest money and security deposit by any other unit/ department shall not hold good for BSNL.
7. **In case the eligibility credentials are not found in order 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 liable to debar from tendering in BSNL for the period as decided by competent authority including any other action under the contract or existing law.**

#### **8. Performance Guarantee & Security Deposit**

- a) Performance Guarantee (PG):- The Firm shall have to furnish Performance guarantee @ 5% of the contract value of the Master Agreement (contract) within two weeks of the issue of commencement letter in the form of Bank guarantee on a Nationalized/Scheduled bank in standard format (Annexure B)/ CDR/ FDR/ DD. This performance guarantee shall be submitted in the Electrical Division in the name of concerned Accounts Officer and shall be valid for One Year from the date of stipulated date of completion. In the event of failure on the part of successful tenderer to furnish the performance guarantee within fifteen days, the EMD will be forfeited and tender shall be cancelled.
- b) Security deposit : In addition to the Performance Guarantee stated above a sum of @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum be deducted with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. This Security Deposit shall be released after an observation period of 12 months after the date of completion of work.

9. The acceptance of a tender will rest with the Executive Engineer (E), Dimapur, 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.
10. Canvassing in connection with tender is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
11. 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.
12. i) The tenderer should give a certificate that none of his/her relative is employed in BSNL units. In case of proprietorship firm, certificate will be given by the proprietor and for partnership firm certificate will be given by all the Directors of the company.
- ii) Near relatives of all BSNL employees either directly recruited or on deputation are prohibited from participation in tenders and execution of works in the different units of BSNL. The near relatives for this purpose are defined as:
- a) Members of a Hindu Undivided family.
  - b) They are husband and wife.
  - c) The one is related to the other in the manner as father, mother, son(s) & son's wife (daughter-in-law), Daughter(s) & daughter's husband (son-in-law), brother(s) & brother's wife, sister(s) & sister's husband (brother -in-law).
- iii) The company or firm or any other person is not permitted to tender for works in BSNL Unit in which his near relative(s) is (are) posted. The unit is defined as SSA/Circle/Chief Engineer/Chief Archt./Corporate office for non executive employees and all SSA in a circle including circle office/Chief Eng./Chief Archt./Corporate office for executive employees (including those called as Gazetted officers at present). The tenderer should give a certificate that none of his/her such near relative is working in the units as defined above where he is going to apply for tender/work, for proprietorship, 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 prescribed on Page No. 17.
- 13 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 contractor's service.
14. The tender for the works shall not be witnessed by the contractor who himself/themselves has/have tendered or who may and has/have tender for the same work. Failure to observe this condition would render tenders of the contractors tendering as witnessing the tender is/are liable for summarily rejection.
15. 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.
16. **Extension of validity:** In case, where the letter of award of work cannot be placed within the

validity period of the tender, the BSNL can request all tenderers to extend the validity of their respective tenders and the Earnest Money deposit by a reasonable period. In such cases, extension of validity of Earnest Money deposit by 30 days beyond the extended validity date of tender should also be asked for. While BSNL can make the request for extension, the tenderer is free to either extend the validity or refuse the request to extend the validity.

17. The contractor should read the tender documents carefully before submitting the tender.
18. This Notice Inviting Tender shall form part of the Contract document. The successful tenderer/contractor on acceptance of his tender by the Accepting authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of: -a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
  - b) Standard BSNL EW-8 form.
19. If any terms and conditions mentioned from P-1 to P-38 are in contravention to General Conditions of Contract 2010, the terms and conditions mentioned from P-1 to P-38 shall prevail.

**EXECUTIVE ENGINEER (ELECT.)**  
**BSNL, Electrical Division,**  
**Dimapur**  
**For & on Behalf of BSNL**

**No. 14/EEE/BSNL/DMP/2019-20/496**

**Date: - 15/10/2019**

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. for publishing on Division Notice Board.
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. Division Notice Board.
10. All Eligible contractors.

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



**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	<b>The Firms who fulfill the following requirements shall be eligible to bid</b>	
	<b>BSNL enlisted Class-II contractors or above in Electrical category.</b>	
	<b>Note:- Copy of Credentials as applicable for proof of eligibility prescribed shall be produced by the firm</b>	
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:	
	<b>a) 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,.</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:	
	<b>c) EMD</b> -amounting <b>Rs. 5003.00</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, .</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 Mob No: 09674758723/9674758722,emailIDs: helpline1tenderwizard@gmail.com</b></p>	

## **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 2008, 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. Saswati Majumder** Mob No: **09674758723/ 9674758722** , emailIDs: [helpline1tenderwizard@gmail.com](mailto:helpline1tenderwizard@gmail.com)

**TENDER SUBMISSION FORMAT (For e - Tender)**

To,  
The Executive Engineer (E),  
BSNL Electrical Division,  
Dimapur.

**Subject:- Submission of e-Tender for the work of** Supply, Installation, Testing and Commissioning of Addressable Fire detection & Fire alarm system for Telepresence Studio under UNMS Project for NFS Work at Rangapahar, Nagaland. 4<sup>th</sup> CALL.

NIT NO. : - 11/EEE/BSNL/DMP/2019-20

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 attested.

**ENVELOPE -I**

<b>S.N.</b>	<b>DOCUMENTS</b>	<b>DETAILS</b>
<b>1.</b>	<b>Tender Publication advertised on</b>	
<b>2.</b>	<b>Name of Newspaper</b>	
<b>3.</b>	<b>Tender due on</b>	
<b>4.</b>	<b>Tender Cost.</b>	
a.	Demand Draft No.	
b.	Date	
c.	Amount	
d.	Name of Bank and Branch	
e.	In favour of	<b>AO (Cash), O/o the GMTD, Nagaland SSA.</b>
<b>5.</b>	<b>Earnest Money Deposit</b>	
a.	DD / FDR / CDR /BG No.	
b.	Date	
c.	Amount	
d.	Name of Bank and Branch	
e.	In favour of	<b>AO (cash), O/o the GMTD, Nagaland SSA</b>
<b>6.</b>	<b>Details of firm / Company</b>	

a.	Name of firm / Company, e-mail address (mandatory)	
b.	Name of Proprietor / Partner / Managing Director	
c.	Address	
d.	Pin Code	
	Telephone	
	E- mail address ( <b>MANDATORY</b> )	
	Electrical Contractor's License No.	
e.	Issuing authority, Date of issue & Letter No.	
	Class of Registration	
	Limit	
	Valid up to	
f.	Electrical Supervisor license No.	
	In the Name of	
	Qualification	
g.	Address of Branch / Head Office Name In BSNL Division H.Q.	
	Pin Code	
	Phone	
	Mobile No	
	E-Mail Address	
7.	Income Tax returns / Chartered Accountant Certificate Date	
8.	GST Registration No. & Date	
9.	EPF Registration NO.	
10.	ESI Registration NO.	
11.	Bank details of agency for RTGS/online payment	
	Bank Account No:-	
	Bank Name & Branch:-	

	IFSC code:-	

**12. Lists of 3 works carried out satisfactorily (Certifying 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.					

**13. Annual Turn over**

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

Sl. No	Year	Annual turn over
1	2017-18	Rs.
2	2016-17	Rs.
3	2015-16	Rs.

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

Date:

(Signature)  
(Name in block letter)  
Seal of firm



**1. Declaration by Contractor**  
(To be furnished by the firm)

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 our tender documents may be returned in original at the time of opening of tender by the tender opening officer. The decision of tender opening officer in this regard shall be final & binding on me.

**3. Format of the certificate to be given by the firm/person:**

I \_\_\_\_\_ S/o \_\_\_\_\_ R/o \_\_\_\_\_

here by certify that none of my relative(s) as defined below is/are employed in BSNL unit as per details given in the tender document. In case at any stage, it is found that the information given by me is false/ incorrect, BSNL shall have absolute right to take any action as deemed fit/without any prior intimation to me.

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).

(Signature of the contractor with seal)

**Signature of contractor/authorized representative**

**With seal of the firm**

**1. UNDERTAKING REGARDING PROVISIONS-B**

"I,.....Son of. ....  
.....Resident of .....  
..... hereby give an undertaking that

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

Any consequence arising due to non-complying of EPF & ESI Act provision shall be sole liability of the undersigned contractor. 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

**(Seal of the firm)**

**(Dated Signature of Contractor)**

**2.UNDERTAKING'C'**

I/Whereby declare that I/we are not Black Listed by GST authority as on date. I/We undertake to intimate change of status during the currency of contract.

PAN No.:.....

GST Registration No:.....

**The Agency shall fill up the above data**

**(Dated Signature of Contractor)**

**(Seal of the firm)**

**BHARAT SANCHAR NIGAM LIMITED**

***Tender for the work of:- “Supply, Installation, Testing and Commissioning of Addressable Fire detection & Fire alarm system for Telepresence Studio under UNMS Project for NFS Work at Rangapahar, Nagaland. 4<sup>th</sup> CALL.***

*Name of Contractor / Firm - -----*

**TENDER**

1. I /we have read and examined the notice inviting tender, schedules, Specifications applicable , Drawings & Designs, General Rules and Directions, Conditions of contract, clauses of contract , Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.
2. I/We hereby tender for the execution of the work specified for the BSNL within the time specified, 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.
3. 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.
4. A sum of **Rs.5003/-** is hereby forwarded in the form of Deposit at call receipt/FDR//Bank guarantee of a Nationalized/Scheduled Bank as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period I/We agree that the said BSNL shall without prejudice to any other right or remedy, amount of EMD with reference to estimated amount will be forfeited. Further if I/ We fail to commence work as specified , I/ We agree that the said BSNL shall without prejudice to any other right or remedy, be at liberty to forfeit the amount of EMD with reference to estimated amount and performance guaranty 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.
5. 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 upto maximum of percentage mentioned in clause 12.3 of the tender form and those in excess of that limit at rates to be determined in accordance with provisions contained in clause 12.2.
6. 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 valid as per the terms of the NIT.
7. 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 authorised to communicate the same or use the information in any manner prejudicial to the safety or interest of BSNL.

(Signature of Contractor)

Dated \_\_\_\_\_ Seal Of 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 the BSNL for a sum of RS. \_\_\_\_\_

(Rupees \_\_\_\_\_  
\_\_\_\_\_ )

The letter referred to below shall form part of this contract Agreement:-

- a)
- b)
- c)

Place \_\_\_\_\_

Dated \_\_\_\_\_

Signature  
For & on behalf of the BSNL  
Designation

## **INSTRUCTIONS FOR IMPLEMENTATION OF GST:**

1. The rates quoted must be full & final. Nothing extra is payable other than the quoted rates.

GST shall be paid extra as applicable as indicated in the 'Schedule of Work' (BOQ)

The Evaluation & Comparison of bids shall be done on the basis of **NET COST TO BSNL** on the prices of the Goods / Services offered along with all applicable Taxes, Packing, Forwarding, Freight & Insurance charges etc as arrived in "Schedule of Work" of the Bid document but excluding GST which is creditable to BSNL. If GST is not quoted separately same shall be treated as NIL and no payment shall be done on account of GST. The tender will be decided on the basis of quoted Basic Cost.

2. Necessary declaration, statutory forms (if any) shall be provided by BSNL to avail concessional rate of tax wherever applicable on the request of the bidder as & when asked for.

3. BSNL shall deduct statutory taxes and duties like income tax, etc. from payments due to the firm as per rules of the State/Central Govt. The Accounts Officer of the concerned SSA shall issue certificates for such deductions to the firm.

4. For claiming the payment following documents shall be submitted:

a) Invoice clearly indicating breakup details of composite price ie Basic, GST any other duties & Taxes, Freight /Packing Charges etc

b) E-way bill as prescribed in the GST Law in case of movement of Goods

c) Proof of Payment of GST if applicable

d) Timely uploading of correct & necessary information on GSTN Portal is mandatory as prescribed in GST Compliances.

e) Declaration by the Authorized signatory duly authorized by the company management along with a certificate from an independent CA/CMA that the benefits of tax credits are transferred to BSNL

Note:1) If the bidder fails to furnish necessary supporting documents ie GST invoice/Customs invoices etc & 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 bidder.

2) Tax amount will be paid to the bidder only after bidder declares the details of the invoices in its return in GSTR 1& GSTR 3 uploaded by the bidder& the same is reflected in GSTR-2A of BSNL on GSTN Portal.

5. In case the contractor is blacklisted during the currency of contract, BSNL will not bear any loss of Input Tax Credit arising due to default/blacklisting of Contractor.

6. Bidder should furnish the correct HSN/SAC classification in the price schedule. If the credit for the Duties, Taxes & Ceases under provision /rules under GST law is found to be not admissible at any stage subsequently owing to wrong furnishing of Tariff Head, then the bidder will be liable to refund such non-admissible amount, if already paid along with penalty & interest if charged by the concerned authority.

7. In case the Duties, taxes & ceases which are not eligible for Input Tax Credit as per the quotes indicated in the Price Schedule by the bidder & subsequently at any stage it is found that Credit for such Duties, Taxes & Ceases is admissible as per provision of GST law, then the bidder will be liable to refund the amount equivalent of such duties, Taxes & ceases if already paid to them provided the credit can be claimed within the time prescribed under the applicable legislation & BSNL has all the documents to claim such credit. The refund is also subject to the bidder performing necessary act for enabling BSNL to claim the credit. viz upload the information on GSTIN. However, the BSNL may allow the bidder 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 provision of GST Law.
8. BSNL reserves the right to ask the bidders to submit documentary proof confirming the correct HSN or SAC classification/Customs Tariff Head from the CGST/SGST/IGST officer or Customs authority where the HSN or SAC classification /Customs Tariff Head furnished against the particular tendered item by different bidders differs from each other or the same is found apparently not furnished in accordance with GST ACT/Customs Tariff notifications.
9. If the bidder fails to furnish necessary supporting documents ie Tax Invoices/Customs invoices etc in respect of Duties, Taxes & Ceases which are eligible for input tax credit, the amount pertaining to such Duties, Taxes, Ceases will be deducted from the payment due to the firm.
10. If the bidder fails to perform the necessary compliances which would any manner restrict BSNL to claim input tax credit then the amount pertaining to such duties, Taxes & Ceases will be deducted from the payment due to the bidder.
11. If the bidder 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 & ceases will be deducted from the payment due to the bidder.
12. BSNL can adjust/ forfeit Bank Guarantee obtained from the bidder against any loss of input tax credit to BSNL on account of bidders default. In case BSNL has to pay GST on reverse charge basis the bidder would not charge GST on its invoices. Further the bidder undertakes to comply with the provisions of GST law as may be applicable.
13. The balance payment shall be made within a period of 6 months from the invoice date to ensure availability of input tax credit & subject to condition that there are no damage/shortages. In those cases where such shortages/damages are intimated to the bidder in writing, the balance payment shall be released only after the cases are settled in accordance with the provision of contract. Further in case of any dispute on the payment to be made to the bidder, the same shall be settled on or before the month of September following the end of financial year to which the invoice pertains. Additionally, in case the dispute is not settled due to any act of the bidder & input credit on the said invoice is lost by BSNL, the same shall be recovered from the bidder.
14. BSNL has the right to recover input Tax credit loss suffered by it due to any mis-declaration on invoice by the bidder.
15. Any sum of money due and payable to the bidder (including security deposit refundable to him ) under this contract may be appropriated by the purchaser or the BSNL or any other person(s) contracting through the BSNL and set off the same against any claim of the purchaser or BSNL or such other person or person(s) for payment of a sum of money arising out of this contract or under any other contract made by the bidder with the Purchaser or BSNL or such other person(s) contracting through the BSNL. In case of set off the security deposit against any claim of the purchaser or BSNL or such other person or person(s) for payment of a sum of money arising out of

this contract or under any other contract made by the bidder with the Purchaser or BSNL or such other person(s) contracting through the BSNL, the GST on such set off will be borne by the bidder. GST would not be liable on security deposit. But if bidder set off the security deposit against any claim of the purchaser or BSNL or such other person or person(s) for payment of a sum of money arising out of this contract or under any other contract made by the bidder with the Purchaser or BSNL or such other person(s) contracting through the BSNL, then GST would be levied.

16. The bidder should furnish the name of its collaborator(if applicable), brand name, model number, type of the products and HSN classification under GST and customs law offered in this tender. The technical literatures of the products should also be submitted. No change in either technology or product shall be permitted after opening of bids.

**17. GST Invoice:**

All the details of bidder (name, address, GSTN / unregistered bidder, place of supply, SAC/HSN code etc.) and other mandatory details shall be mentioned on the invoice.

Invoice/Supplementary invoice/Debit note /Credit note/Receipt Voucher need to be issued in compliant format and within the time limit prescribed under GST law.

In case of any deficient / incomplete/rejected supply, BSNL shall convey the same in a reasonable time to enable the bidder to issue credit note and take tax adjustment.

It would be the responsibility of the bidder to declare correct information on invoice and GSTN viz. the amount, the place of supply, rate of tax etc. In case the eligibility of input tax credit is questioned or denied to BSNL on account of default by the bidder, the same would be recovered by BSNL from the bidder.

Registered location of both the parties i.e BSNL and bidder should be mentioned in the Agreement with GSTN No. Further, bidder should raise invoices at the registered premise of BSNL for availing of credit and ensure that the place of supply as per GST law is same as registered premise.

BSNL could at any time instruct the bidder to raise its invoices at a particular location of BSNL

It is the responsibility of the bidder to ensure that place of supply and the GSTN of BSNL are in the same state. If for any reason they are not in the same state, the bidder shall intimate to BSNL and give adequate time before rising of the invoices.

E-waybill number should be mentioned on the invoices.

Bidder shall be responsible for timely issuance and delivery of Invoice / DN/ CN to enable BSNL to claim tax benefit on or before the stipulated time period provided by the GST law.

17.10. (a) It is the responsibility of the bidder to ensure that outward supply return(GSTR-1) would be filled correctly .If not, than cost would be borne by bidder.

17.10.(b) Reporting of correct outward supply by bidder in the outward return(GSTR-1) is the responsibility of the bidder. In case of mismatch because of bidder's fault,prompt amendments must be made by the bidder else bidder would be required to indemnify BSNL of the loss of credit due to mis-match. The compliances to be adhered by bidder includes (but is not limited to) the following:

17.10.b.(i)Uploading appropriate invoice details on the GSTN within the stipulated time.

17.10.b.(ii) Issuing GST compliant invoice/CN /DN.PO issued by BSNL should be referred by bidder for capturing information on the invoice.

17.10.b.(iii) Bidder needs to pay the entire self assessed Tax on timely basis.

17.10.b.(iv) Where Invoice is not uploaded or incorrect upload of invoice detail of GSTN by bidder then credit on such invoice will be given provisionally subject to matching. So, acceptance of changes made by BSNL on GSTN on account of non-upload or incorrect upload of invoice details of GSTN is to be submitted by bidder. Such changes wrt. the mismatch are required to be accepted by bidder within the time limit prescribed under the GST law. It should be noted that in case bidder does not accept such changes within the time limit prescribed under GST law, the loss of input tax credit (if any) would be recovered from the bidder. In case of mismatch because of bidder's fault, prompt amendments must be made by the bidder else bidder would be required to indemnify BSNL for the losses of credit and interest paid due to mismatch.

17.10.b.(v) Bidder to issue all necessary documentation and perform all necessary compliances for BSNL to be eligible to claim the input tax credit of GST. In case BSNL is unable to claim the input tax credit, the amount wrt GST charged by the bidder would be recovered from the bidder.

17.10.b.(vi) A self-declaration along with evidence that the bidder is not blacklisted by GST authority. In case supplier gets black listed during the tenure of BSNL contract, then supplier must indemnify BSNL to ensure that no loss of input tax credit is borne by BSNL due to default of supplier.

18. It shall be the responsibility of the bidder to mention state of place of goods/services in the invoice issued to BSNL.

19. GST (if applicable) on account of liquidated damages due to delay in supply of goods would be borne by bidder.

20. Payment against GST Credit will be made only when GST compliant Invoice is submitted by the bidder.

21. In case the bidder does not agree with the POS or HSN/SAC code stated on the POS, it is the responsibility of the bidder to approach/request BSNL to revise the PO.

22. Any further amendment notified by the government in GST Rules during the currency of contract shall also be applicable without any separate notice.



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 News papers/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 tendered(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. Receipts for payments made on account of work when executed by a firm, must also be signed by authorized signatory.
4. Any person who submits a tender shall fill up the Price Bid (Schedule of work) stating 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 other condition of any sort, including conditional rebates will be summarily rejected.
5. 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 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.
6. The officer inviting 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.
7. 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.
8. 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.
9. 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.
10. 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.

11. Agency has to observe all labour rules and regulations in force. Agency shall be fully responsible for any violation observed at any time.
12. Bye laws Indemnity against liabilities
  - 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.
13. 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 of the intending tenderer) **Clause 10****i). SCHEDULE 'B' :** Schedule of materials to be issued to the contractor.

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

**SCHEDULE 'D' :**

Schedule Appended from page 64-67

<b><u>SCHEDULE 'F'</u></b>	
Reference to General Conditions of contract.	
<b>Name of Work</b>	Supply, Installation, Testing and Commissioning of Addressable Fire detection & Fire alarm system for Telepresence Studio under UNMS Project for NFS Work at Rangapahar, Nagaland. 4 <sup>th</sup> CALL.
Estimated cost of work:	<b>Rs. 250169/-</b>
i) Earnest money :	<b>Rs. 5003/-</b>
Performance Guarantee :	<p>(a) <b>Performance Guarantee:</b> - The contractor is required to furnish performance guarantee for an amount equal to 5% of contract value in the form of Bank Guarantee (of a Nationalized / Scheduled Bank in a standard format)/ CDR/FDR/DD within two weeks from the date of issue of award letter. The validity period of the performance security in the form of performance bank guarantee shall be one year from the stipulated date of completion of work.</p> <p>(b) <b>Security deposit :-</b> 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 5% of contract value.</p> <p>(c) In case the Firm wish to submit combine guarantee (Performance Guarantee &amp; Security Deposit) the same shall be accepted by the BSNL. No SD shall be deducted from the running bills. This amount shall be refunded after one year of actual date of completion of work. The EMD deposited along with the tender shall be returned after submission of PG.</p> <p>(d) <b>Refund of SD :-</b> SD shall be refunded after one year from</p> <p>Actual date of completion of work in case of major project. In case of special repairs refund period of SD shall be 6 months.</p>
iii) Security Deposit :	
GENERAL RULES and DIRECTIONS:	Officer inviting tender EE (E), BSNL Electrical Division, Dimapur
<b>Definitions:</b>	See below

2(v)Engineer-in-Charge	Executive Engineer (E), BSNL Electrical Division, Dimapur
2(vi)Accepting Authority	Executive Engineer (E), BSNL Electrical Division, Dimapur
(x) Percentage on cost of materials and labour to cover all overheads and profits.	10% Departmental works
Standard BSNL EW contract Form	BSNL EW Form 8 latest (available on <a href="http://www.ne2.bsnl.co.in">www.ne2.bsnl.co.in</a> )
<b>Clause 1</b> i)Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in days	15 days
<b>Clause 2</b> Authority for fixing compensation under Clause 2.	SE (E)
<b>Clause 5</b> Number of days from the date of issue of letter of acceptance for reckoning date of start	10 days
Time allowed for execution of work.	<b>Two months</b>
Authority to give fair and reasonable extension of time for completion of work.	SE (E)
<b>Clause 10CC</b> Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column.	NA
<b>Clause 11</b> Specifications to be followed for execution of work	CPWD specifications for internal & External Elect works as amended time to time. And for other works as per attached with NIT.
<b>Clause 12</b> 12.2(iii) schedule of rates for determining the rates of additional, altered or substituted items that can't be determined under 12.2(i) & (ii)	NIL
<b>Clause 12</b> 12.2(iii) plus/minus +/- the % over the rate entered in the schedule of rates	NA
<b>Clause 12</b> Deviation Limit beyond which clause 12.3 shall apply	25%
<b>Clause 25</b> Competent Authority for Conciliation	In accordance with "The Arbitration & Conciliation (Amendment) Act-2015

<p><b>Clause 30.2</b></p> <p>Minimum Qualifications and experience required for Principal Technical Representative.</p>	
<p>a) For works with estimated cost put to tender more than</p> <p>i) Rs. 2lakh but less than 5Lakhs for Ele/ Mech. Works</p>	<p>Recognized diploma holder</p>
<p>b) For works with estimated cost put to tender more than i) Rs.5 Lakhs for Elect/ Mech. Works</p>	<p>Graduate or Recognized diploma holder with 3years experience</p>
<p>Recovery to be effected from the contractor in the event of not fulfilling provision of <b>clause 30.5</b></p>	<p>i) Rs. 4000/- per month for works costing above 5 lakhs</p> <p>ii) Rs.2000/- per month for works costing between 2 lakhs and 5 lakhs</p>

***SCHEDULE "D"***

( II ) "Copy of Memorandum No.5-1-12/EW/94 dated 26th Sept.96"

Subject: - Option for Deposit of Earnest Money in the form of Bank Guarantee for Air-conditioning, Engine Alternator sets, Lifts and Sub-Station Works.

1. In modification of the existing procedure of Deposit of Earnest Money with each Tender in the shape of Cash/Demand Draft/Pay Order, it has been decided by the Telecom Commission to provide for an option to the Contractor(s) for depositing Bank Guarantee along with the Tenders for Air-conditioning, Diesel Engine Alternator, Lifts and Sub-station works wherever the amount of EMD is more than Rs.20, 000.
2. The Bank Guarantee shall be from a Scheduled Bank or from a Nationalized Bank/State Bank.
3. The Bank Guarantee shall remain in force for 30 days after the period for which the tenders are valid.
4. The value of the Bank Guarantee to be deposited along with each Tender shall be at the rates of Earnest Money prescribed by the Government from time to time. The Bank Guarantee Bond for EMD Deposit shall be as per the Model form at Annexure-1.
5. The Bank Guarantee Deposit by the Contractors shall be entered in a register to be maintained by the Divisional Officer/Accounts Officer of the concerned Electrical Division and the register shall be reviewed periodically and appropriate action to be taken for extending/ en-cashing or release of this Bank Guarantee.
6. This is issued with the concurrence of Telecom Finance vide their U.O.No.274/FA-V dated 26<sup>th</sup> Sept.1996 and shall come into force with immediate effect.

Encl.: Annexure-I

**MODEL FORM OF BANK GUARANTEE  
(For submitting EMD)**

Whereas \_\_\_\_\_ (hereinafter called “the contractor(s)”) has submitted its Tender dated \_\_\_\_\_ for the work \_\_\_\_\_ KNOW ALL MEN by these presents that WE \_\_\_\_\_ OF \_\_\_\_\_ having our registered office at \_\_\_\_\_ (hereinafter called “the Bank”) are bound unto \_\_\_\_\_ (hereinafter called “the BSNL”) in the sum of \_\_\_\_\_ for which payment will and truly to be made of the said BSNL, the Bank binds itself, its successors and assigns by these presents.

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 BSNL 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 BSNL up to the above amount upon receipt of its first written demand, without the BSNL having to substantiate its demand, provided that in its demand, the BSNL 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

Signature of the Witness

Name of Witness

Address of Witness:

**PERFORMANCE SECURITY GUARANTEE BOND**

In consideration of the CMD, BSNL (hereinafter called 'BSNL') having agreed to exempt \_\_\_\_\_ (hereinafter called 'the said contractor(s)') from the demand under the terms and conditions of an agreement/Advance Purchase Order No \_\_\_\_\_ dated \_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ for the supply of \_\_\_\_\_ (hereinafter called "the said agreement"), of security deposit for the due fulfillment by the said contractor (s) of the terms and conditions contained in the said Agreement, on production of the bank guarantee for \_\_\_\_\_ we, (name of the bank) \_\_\_\_\_ ( hereinafter refer to as "the bank") at the request of \_\_\_\_\_ (contractor(s)) do hereby undertake to pay to the BSNL an amount not exceeding \_\_\_\_\_ against any loss or damage caused to or suffered or would be caused to or suffered by BSNL by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We (name of the bank) \_\_\_\_\_ do hereby undertake to pay the amounts due and payable under this guarantee without any demur, 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 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 TWO/TWO AND HALF/THREE YEARS (as specified in P.O) from the date hereof, we shall be discharged from all liabilities under this guarantee thereafter.



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

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

(Indicate the name of bank)

**( I ) “IMPORTANT NOTE FOR CONTRACTORS”**

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

**GENERAL TERMS AND CONDITIONS:-**

**1. EVALUTION OF TENDERS:-**

The bidder shall quote the rates inclusive of all Duties and Taxes, Packing, Forwarding, Freight, Insurance charges, and excluding GST etc.

**2. CURRENCY OF CONTRACT: -**

The contract shall be valid for One Month after completion of work. Including 25% deviation if any, after the date of its acceptance. The ordering quantity can be increased up to the extent of 25% (deviation limit) without the consent of the firm. The firm shall execute such quantities at the rate quoted in the tender without any change in terms and conditions of the contract.

**3. BSNL does not bind himself to accept the lowest or any tender and 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 quoted rates.**

**4. COMPLIANCE OF EPF ACT:**

The firm has to fulfill / compliance of the provisions of EPF & Misc. Provisions Act 1952 & Employees’ Provident Fund Scheme 1952.

The each claim bill of contractors must accompany the 1) List showing the details of labourers / employees engaged. 2) Duration of their engagement.3) The amount of wages paid to such labourers / employees for the duration in question.4) Amount of EPF contributions (both employer’s and employees contribution) for the duration of engagement in question, paid to the EPF authorities. 5) Copies of authenticated documents of payments of such contribution to EPF authorities and 6) A declaration from the contractors regarding compliance of the conditions of EPF Act, 1952.

**5. CO-ORDINATION AT SITE :-**

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

**1. Certificate to be furnished by contractor about relative(s) working in **BSNL**.**

**DECLARATION BY TENDERER**

- a) To be signed by Proprietor in case of proprietorship firm.
- b) To be signed by all partners in case of partnership firm.
- c) To be signed by all the directors in case of the company.

1. M/s.....

S/o .....

R/o .....

Hereby certify that none of my relatives(\*) as defined below is/are employed in BSNL units(\*\*) as defined below.

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

(\*) Definition of Relatives.

- a) Member of Undivided family.
- b) They are husband and wife.
- c) They are related to the other in the manner as Father, Son(s), Son's wife (Daughter-in-law, Daughter(s) & Daughter's husband (Son-in-law), Brother & Brother's wife, Sister(s) & Sister's husband (Brother-in-law).

(\*\*) The company or firm or any person is not permitted to tender for the work in BSNL unit in which his near relative(s) is (are) posted. The unit is defined as

- d) For Non Executive Employees: SSA/Circle/Chief Engineer/Chief Architect/Corporate Office.
- e) For Executive Employees (including those called as gazetted officer at present): All SSA in Circle office/Chief Engineer / Chief Architect /Corporate Office.

Place : \_\_\_\_\_

Date : \_\_\_\_\_

Signature oftenderer

**2. Goods & Service Tax ( GST) : Firm shall have valid GST registration.** The rates offered by the firm shall be **exclusive of GST** as applicable. The firm shall claim Goods & Service Tax(GST) with the bill clearly furnishing complete details of GST so included. BSNL under no circumstances will consider any claim of service tax not included in the bill. It will the firms responsibility to settle GST with GST authorities.

## 6 TAX AND DUTIES: -

The bidder shall give the price inclusive of all taxes and excluding GST etc. No concessional form shall be provided by BSNL. The contractor / supplier shall submit to BSNL necessary supporting documents for availing input Tax credit of GST by BSNL. In case the documents furnished by the firm are not accepted by taxation department then the amount of GST shall be deducted from the payments due to the firm.

## 3. PAYMENT TERM: -

No advance payment will be made. The payment terms for all items shall be governed as under. Stipulations like levy of interest if payment is not made in specified time are not acceptable to the BSNL.

- a) 75 % of prorata of the approved price breakup of the contract value on receipt of equipment/material (major inventory) at site and after satisfactory physical inspection.
- b) 20 % of prorata of the approved price breakup of the contract value after successful installation of equipment.
- c) 5 % of the approved contract value after successful Testing, Commissioning & Handing over.

For claiming this payment the following documents are to be supplied to the paying authority :-

- a. Excise gate pass / Invoice or equivalent document favoring BSNL shall be supplied by the supplier.
- b. Delivery Challan.
- c. Consignee receipt.

**4. STORES AND SAFETY:-**

All the stores and materials required for the satisfactory completion of work except those specified, as departmental supply shall be arranged at work site by the contractor from his own resources or open market. It should be clearly understood that no claim whatsoever shall be entertained by the department on this account, safe custody of the material brought and installed at site shall be contractor's responsibility till the installation is taken over by the department after successful completion. List of approved material not in list prior case permission in writing is to be obtained from Engineer-in-charge.

**5. TEST CERTIFICATES:-**

BSNL reserves the right to depute representative for inspection of material/ equipment and witness the test at contractor's/ suppliers works and the firm shall be required to perform routine/ type test for unit of each type/ model as per Annexure-I of I.S in the presence of BSNL's representative. At least one week's notice shall be given by the contractor to the BSNL for fixing up inspection and factory test.

The firm shall submit manufacturer test certificates Addressable Multisensor and Optical Detector, Addressable Heat detectors, Analogue Addressable micro processor based Control Panels etc on supply of the material at site.

**6. COMPLETION DRAWINGS:-**

Five sets or following drawings shall be submitted by the contractor after physical completion of the work but before commissioning of the installation.

- (a) Floor plans showing location of detectors indicating the proposed distances between the detectors.
- (b) Floor plans indicating the locations of main control panel, hooters, manual call points, response indicators etc.
- (c) Conduit/cable layout diagrams clearly indicating details of detectors and other devices connected in a particular zone.
- (d) Drawing showing general arrangement of main control panel panels.

Note :- In case agency fails to give the completion plans as described above, an amount @2.5% of the value of work subject to a ceiling of Rs.15,000/- will be recovered from the bill.

**7. GUARANTEE AND DEFECT LIABILITY:-**

The guarantee shall be valid for twelve months after Commissioning of the system. The contractor shall guarantee that system shall be free from any defect due to the defective material and / or bad workmanship and also the equipments shall work satisfactorily with performance and efficiencies not less than the guaranteed values. The firm shall visit quarterly during guarantee period and ensure the healthiness of system.

a) Any part found defective during this period shall be replaced free of cost by the contractor. The service of the contractor's personnel if required during this period shall be made available free of cost to the department.

b) The contractor shall depute his representative within 36 hours of notification of the defect by the department.

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

d) 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 department may proceed to do so at the contractor's risk and expenses and without prejudice to any other right.

**8. DATE OF COMPLETION: -**

Date of completion of the work shall be Two month after award of work. However the Final bill shall be prepared after successful Testing, and commissioning of the installation.

**9. PROGRAMME FOR EXECUTION: -**

The firm shall supply detailed program to Engineer-in-charge for execution of contract within 10 days of award of work. The program shall contain details about submission & approval of drawing, supply of materials etc. Tentative dates for installation and testing shall also be submitted.

- 1 The contractor shall get the following approved before start of the work: - G.A. drawing, Control & Power wiring Drawing, equipment details, HT&LT Cable layout & Room Layout.
- 2 The approval of drawings by the department shall not absolve the firm of their responsibility for supplying and installing the system confirming to relevant standards and specifications and schedule of work of the contract.

**10. GENERAL: -**

The following special conditions shall be read in conjunction with general conditions of contracts and amendments there to. If there are any provisions in these special conditions, which are in variance with the provisions in the other documents, the provisions in these special conditions shall take procedure. The work shall generally be carried out as per IE rules & National building/Electrical code/Fire manuals/Telecom & CPWD specifications & NIT conditions.

**11. Change in Specification**

1. BSNL reserves the right to make changes in the specifications of the work if in its opinion the same is found necessary. However such alterations shall be made after mutual discussion and agreement between BSNL and the contractor. Any price implication in this regard shall be mutually discussed and agreed upon, in terms of clause 12 of EW-8.
2. Modifications or alterations by the contractor in the design / specifications of any equipment/material will not be permitted by BSNL as a matter of principle. However the same can be agreed by BSNL under the exceptional circumstances where
  - a) The same is necessitated due to non-availability of material/component of certain specification or make

OR

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

**12. Prior written approval of BSNL is necessary before undertaking any alteration/modification in the specifications of the equipments.**

**13. INSPECTION OF SITE AND CONTRACT DOCUMENTS: -**

For the purpose of inspection of site and relevant contract the contractor is required to contact the Senior Manager concerned who shall give reasonable facilities for inspection of the same. The contractor shall inspect and examine the site and shall satisfy himself, before submission of his tender as to the form and nature of the site, the quantities and nature of the work, materials necessary for completion of the work and shall himself obtain all necessary information as to risks, contingencies and circumstances which may influence or effect his tender. No extra charges consequent to any misunderstanding or otherwise shall be allowed.

**14. SUFFICIENCY OF TENDER: -**

The contractor shall be deemed to have satisfied himself before entering into the contract as to the correctness and sufficiency of his offer the work and of the rates quoted in the schedule of works. These rates and amounts shall, except as otherwise provided, cover all his obligations under the contract and all matter and things necessary for proper completion and maintenance and guarantee of the work.

**15. PAINTING: -**

The entire exposed iron work shall be painted with one coat of primer followed by 2 coats of approved/matching colour synthetic enamel paint.

**16. TEST AT SITE: -**

After physical completion of the installation following testing shall be conducted by the firm in the presence of Engineer-in-charge or any representative of the department at his cost & intimate test results before commissioning .. Nothing extra will be paid to him on this account.

- a Megger test between Phases, Neutral and Earth for all systems.
- b Earth Resistance test for all earth stations.
- c Functional test of all switchgears and circuit breakers.
- d Relay test & their settings.
- e Polarity test.

(a) The BSNL shall have the right to operate all equipments if in operating conditions, whether or not such equipment, have been accepted as complete and satisfactory. Repairs and alternations shall be made at such times as directed by Engineer-in-Charge.

(b) In special circumstances the BSNL may have to use the equipment even before the completion of whole work. The firm shall co-operate fully under such circumstances.

(c) Wherever relaxations are required, these should be obtained from the Superintending Engineer (Electrical) well before the final performance test.

(d) All test equipments, the operating personnel, required for testing shall be supplied by the contractor.

(e) At the final inspection a factory trained representative of the manufacturer of the major equipment shall demonstrate that the system is functioning properly in every respect.

(f) The contractor shall provide all necessary facilities for inspection of his equipment. In case of imported equipments, the contractor shall furnish the routine and type test certificates to the satisfaction of Engineer-in-charge.

(g) All information, documents and tests as required by BSNL for their final approval for this installation shall have to be arranged by the contractor.

**17. REJECTION OF DEFECTIVE INSTALLATION:**

The reject material will be cleared from site immediately on rejection. If the complete system or

any part thereof, before it is taken over, be found defective or fails to fulfill the intent of the specification, the contractor, shall, on receipt of a written notice from the Engineer-in-charge forthwith made good the defects, should the contractor fail to rectify the defects and or make good the defective system within a stipulated time mentioned in the written notice or replace the equipment's / components at no extra cost, department may make good, reject or replace the same at the risk and expenses of the contractors, the whole or any portion of the system which is defective or fails to fulfill the requirements of the contract.

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

1. Department reserves the right to get inspected any components thereof by the manufacturer / their authorized representative, whose report as regards to the genuineness of component shall be final and binding. In case any component upon such inspection is found to be duplicate/spurious, double the cost of such component based on price list (without any discount whatsoever) effective on date of aforesaid inspection shall be recoverable.
2. In case the contractor agrees to replace the components so found spurious/duplicate at his cost, within 15 days of the said report compensation of Rs. 3,000/- per component found spurious/duplicate should be levied against the contractor.
3. Besides the above the department reserves the right to take disciplinary action against the Contractor.
4. Decision of Superintending Engineer (E), Dimapur in such case shall be final.

**18. GENERAL CONDITIONS:-**

The following general conditions of Contract are deemed to have been agreed upon.

1. All civil works such as construction of foundation for the equipments with masonry or the steel members as may be required is included in the scope of work.
2. Any damage or breakage, which might be caused during the execution of work, shall be made good by the contractor at his own risk and cost.
3. The contractor is responsible for the removal of debris and waste materials arising out of the work done by him, from the site.
4. Necessary tools and plants shall be arranged by the firm. Modern tools and equipment shall be need for handling of cables and machines, drilling, chiseling, cutting etc. So that speed, accuracy, minimum noise, vibrations and disturbance to the building/ occupants / equipment's can be achieved.
5. The firm shall provide necessary barriers, warnings, signals and other safety measures to avoid any accident. The employees of the firm are to be suitably insured against such accidents. The dept. shall not be responsible for any such accidents.
6. The concealed items like earthing, cabling, conduiting etc. shall be carried out only in presence of duly authorized department staff.
7. The offer shall include all changes for packing, handling, freight, insurance, loading, unloading, stocking etc. for the material.
8. Work shall generally be carried out during working hours. However as per the department requirement the working hours shall be extended without any extra claim.
9. All fittings unit assemblies, accessories, hardware foundation bolts, terminal blocks for connections, cable glands and miscellaneous material and accessories of items of work which are useful and necessary for efficient assembly within the scope equipment shall be deemed to have been included within the scope of work in the tender and within the overall details for complete item whether they have been specifically mentioned or not.

**19. Bye-laws Indemnity against Liabilities**

1. The contractor shall comply with all bye-laws and regulations of local and statutory

authorities having jurisdiction over the works and shall be responsible for payment of all fee and other charges and giving/receiving all necessary notices and keep the Engineer-in-Charge informed about the notices issued and received.

2. The contractor shall indemnify BSNL against all claims in respect of patent rights, design, trade mark 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 thereon. The contractor shall defend all actions arising from such claims and shall himself pay all royalties.
3. License fees, damages, cost and charges of all and every sort that may be legally incurred in respect thereof shall be borne by the contractor.
4. All liabilities / penal recoveries on matters arising out of tax/excise/levies such as incorrect deductions, discrepancies in the filling up returns, revised assessments by the concerned authorities etc. shall be borne by the contractor.

It is contractor's liability to follow all safety procedures in accordance with relevant I.S. amended up to date during execution of work at site.

### **SPECIAL CONDITION**

(As per O/o PGM(Elect), New Delhi ltr No.1-5/EW/2015- Dated 15/10/2015)

- 1) Termination of Contract on Death of Contractor :- Without prejudice of any of the rights or remedies under this contract, if the contractor dies, the Engineer-In-Charge on behalf of the BSNL shall have the option of terminating the contract without compensation to the contractor.
- 2) Indulging of Contractor in Criminal/Antisocial Activities & cases under investigation /Charge Sheeted by CBI OR Any other Government Agencies etc. :- If the CBI/Independent External Monitor (IEM)/Income Tax/ Sales Tax/ Central Excise/ Custom Departments recommends such a course – Action will be taken as per the directions of CBI or concerned department.



**PROFORMA FOR AGREEMENT**

(ON NON- JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)

Contract Agreement for the work of “-----” dated  
 -----Between M/s ----- (Refer note) in the town of (address)

----- herein after called the contractor (which term shall unless excluded by or repugnant to be subject or context include its successors and permitted assigns) of the one part and the Bharat Sanchar Nigam Limited herein after called the BSNL (which term shall unless excluded by or repugnant to the subject or context include its successes and assigns) of the other part.

WHEREAS a. The BSNL is desirous that the execution of “-----”

----- should be executed as mentioned, enumerated or referred to in the tender including Press Notice Inviting Tender, General Conditions of the Contract, Special conditions of the contract, Specifications, Drawings, Plans, Time Schedule of completion of jobs, Schedule of Quantities and Rates, Agreed Variations, other documents, has called for Tender (e-tender through publication in the portal).

b. The contractor has inspected the site and surroundings of the work specified in the tender documents and has specified himself by carefully examinations before submitting his tender as to the nature of the surface , strata , soil , sub soil and grounds , the form and nature of the site and local conditions the quantities , nature and magnitude of the work , the availability of the labour and materials necessary for the execution of work , the means of access of site , the supply of power and water thereto and the accommodation he may require and has made local and independent enquiries and obtained complete information as to the matters and things referred to or implied in the tender , documents or having any connection therewith and has considered the nature and extent of all the probable and possible situations , delays , hindrances or interferences to or with the execution and completion of the work to be carried out under the contract, and has examined and considered all other matters, conditions and things and probable and possible contingencies, and generally all matters incidental thereto and ancillary thereof affecting the execution and completion of the work and which might have influenced him in making his tender.

a. The tender documents including BSNL’s Press Notice Inviting Tender, General conditions of Contract, Special Conditions of Contract, Schedule of Quantities and Rates, General obligations, Specifications, Drawings, Plan, Time Schedule for completion of work, Letter of Acceptance of tender and any statement of agreed variations with its enclosures copies of which are hereto annexed form part of this contract though separately set out herein and are included in the expression Contract wherever herein used.

**AND WHEREAS**

The BSNL accepted the tender of M/s. \_\_\_\_\_ (refer note) (Contractor) for the work of “---”

----- and conveyed vide letter No. \_\_\_\_\_ dated \_\_\_\_\_ at the rates stated in the Schedule of quantities for the work and accepted by the BSNL (hereinafter called the Schedule of Rates) upon the terms and subject to the conditions of the contract.

**NOW THIS AGREEMENT WITNESSTH & IT IS HEREBY AGREED AND DECLARED AS FOLLOW**

1. In consideration of the payment to be made to the contract for the work to be executed by him , the contractor hereby convenient with the BSNL that the contractor shall and will duly provide , execute, complete and maintain the said work and shall do and perform all other acts and things in the contract mentioned or described or which are to implied and there from or may be reasonably necessary for the completion of the said works and at the said times and in the manner and subject to the terms and conditions or stipulations mentioned. In the contract and
2. In consideration of the due provisions execution, completion and maintenance of the said work, the BSNL does hereby agree with the contractor that the BSNL will pay to contractor the respective amounts for the work actually done by him and approved by the BSNL at the schedule or rates and such other sum payable to the contractor under provision of the contract, such payment to be made at such time in such manner as prescribed for in thecontract.
3. The contract is subject to the jurisdiction of Court at DIMAPUR only. (Where the NIT/Tender has been issued)

It is specifically and distinctly understood and agreed between the BSNL and the contractor that the contractor shall have no right , title or interest in the site made available by the BSNL for execution of the works or in the building , structures or works executed on the said site by the contractor or in the goods , articles , materials etc. brought on the said site ( unless the same specifically belongs to the contractor ) and the contractor shall not have or deemed to have any lien whatsoever charge for unpaid bills will not be entitled to assume or retain possession or control of the site or structures and the BSNL shall have an absolute and unfettered right to take full possession of site and to remove the contractor , their servants , agents and materials belonging to the contractor and lying on the site.

In witness where of the parties hereto have here-into set their respective hands and seals in the day and the year first above written.

Signed and delivered for and on behalf of  
BSNL

Signature and delivered for and on behalf of  
the Contractor

(BHARAT SANCHAR NIGAM LIMITED)  
OFFICIAL ADDRESS

(CONTRACTOR)

Date

Place

Place

IN PRESENCE OF TWO WITNESSES

SIGNATURE  
NAME

SIGNATURE  
NAME

SIGNATURE  
NAME

SIGNATURE  
NAME

**SPECIFICATIONS  
(SUMMARY)**

**SPECIFICATIONS FOR ANALOG ADDRESSABLE FIRE ALARM SYSTEM**

**SECTION I: GENERAL SPECIFICATION OF WORKS**

**SECTION II: SPECIFICATION FOR ANALOG ADDRESSABLE FIRE ALARM SYSTEM**

**SECTION – I GENERAL SPECIFICATIONS**

1. The work shall be done as per current departmental specification for electrical works as amended from time to time and Indian electricity rules as amended up to date.
2. The work shall be supervised by a qualified Supervisor.
3. The layout of the work will be given by the Engineer-in-charge or his duly authorized representative at site of work.
4. Unapproved materials if brought to site of work shall have to be removed immediately by Contractor at his cost and risk.
5. The contractor shall submit the completion plan as per Clause 8.3, of the agreement within 30 days of the completion of work. Failing to submit the completion plan, he will be liable to pay a sum equivalent to 2.5% of the value of work subjected to the ceiling of Rs.15000/- as per the clause-8.3 of agreement.
6. The contractor will have to give the following tests at his cost and intimate test results before final bills are paid. Nothing extra will be paid to him on this account.
  - a) Earth test.
  - b) Polarity test.
  - c) Insulation test.
  - d) Earth continuity test.
7. Any damage done to the building by the contractor during the execution of work shall have to be made good at his cost and risk. If he does not do it himself within a reasonable time as determine by the Executive Engineer (E) then the same will be got at his cost departmentally after giving notice to him.
8. While making the end terminations of wires, no strand shall be cut and the termination of wire shall be done with necessary lugs and ferrules without any extra payment.
9. The bus bars of the 3 phase distribution box shall be of solid strip instead of sheet metal.
10. Lugs should be provided while terminating earth wires for earth continuity without any extra Payment.
11. The final completion plans, general arrangement drawings and wiring diagram shall be Supplied in triplicate before commissioning the installation.
12. The firm shall furnish the guarantee for all the equipment against defective materials of manufacturing defects and workmanship etc. for a period of One month from the date of Commissioning and handing over of the installation for regular use.
13. Wherever electrical termination, connections are made between dissimilar metals like copper and aluminum suitable size bimetal strips, washer shall be used.
14. Excise gate pass/ Invoice and factory test reports shall be submitted at the time of delivery of equipment at site.
15. Numbering & sign writing of the installation shall be carried out as per instructions of the Engineer-in-charge for which nothing extra shall be paid.

**SPECIFICATIONS - E. I. & FANS:**

1. The work is to be carried out as per CPWD specifications (Internal/External) and I.E. Rule amended up to date.
2. 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.
3. Rates quoted shall be inclusive of packing, forwarding, insurance, freight and delivery at site watch and ward of all materials.
4. All sundry fittings, assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connection as required and all other sundry items which are useful & necessary for proper assembly and efficient working of the various components of the works shall be deemed to have been included in the tender.
5. Following works shall be carried out by the contractor and therefore their cost shall be deemed to be included in their tendered cost.
  - a) The contractor shall be responsible for repairing all damages and restoring the same to their original finish. He shall also remove at his cost all unwanted and waste materials arising out of his work from his site.
  - b) All chases required in connection with the electrical works shall be provided and filled by the contractor to the original finish.
  - c) Temporary shed if required over the storage space and locking arrangement, watch and ward of the materials shall be provided by firm till completion of the work and final taking over of the installation by the department.
6. The contractor shall employ qualified engineer / supervisor as required and intimate names of such persons to the Engineer-in-charge on commencement of work. Failure to employ will attract penalty as per agreement.
7. If any conduit is laid before award of work recovery for the same will be made from contractor at the rate of DSR.2012 + Abatement of respective S/H of this tender.
8. All non-metallic conduit pipes and accessories shall be of I.S.I marked, conduit accessories shall be of grip type/threaded type.
9. PVC conduit to be used shall be ISI mark heavy gauge and fire retardant quality.
10. The switch box shall be made of mild steel of size 16/18SWG as per CPWD specification except the front side. The clear depth of M. S. switch boxes shall not be less than 60 mm. Phenolic laminated sheet cover of 3mm thick shall be provided in the front side of box.
11. Earthing (if any) shall be carried out in presence of representative of the department.
12. Numbering and sign writing of the entire installation shall be carried out by the contractor as per instructions of the Engineer-in-charge for which nothing extra shall be paid.
13. On completion of installation following tests shall be carried out.
  - a) Insulation resistance test b) polarity test c) earth continuity test d) earth electrode resistance test.
14. On completion of electrical installation a certificate shall be furnished by the contractor in prescribed proforma, this certificate shall be in addition to the certificate required by local electric Supply Company.

## SPECIFICATIONS FOR ADDRESSABLE FIRE ALARM SYSTEM

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

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

1.1.1 The scope of work shall include designing supplying and installing 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 wiring 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.

#### **1.2.0 FIRE ALARM CONTROL PANEL (FACP)**

1.2.1 This is a microprocessor-based panel which shall be connected to the various detectors/devices by means of 2 wire loops.

1.2.2 The Fire alarm control panel shall be able to supervise individual detectors for proper performance as well as to give pinpoint location of fire alarm.

1.2.3 The panel shall have hooter alarm.

1.2.4 The panel shall also have the provision through volt-free contact to activate an auxiliary device in case of fire. i.e. auto dialer for automatically dialing select phone numbers in case of fire.

#### **1.2.5 Loop**

a. A loop shall mean a 2-wire circuit connecting minimum 127 addressable detectors and addressable modules

b. The loop card shall have built-in circuit isolator to accommodate Class 'A' wiring.

#### **1.2.6 Addressable Devices**

This term indicates the complete group of addressable devices such as detectors, Manual call Stations, addressable output/input modules etc.

#### **1.2.7 Detectors**

a. The Detector shall be intelligent/analog addressable type.

b. The chamber should be easily removable for the purpose of easy maintenance.

c. The address programming shall be done by a Hand held programmer or Base/detector or from the Fire alarm control panel.

d. The detectors shall have a common base to allow easy interchange of various types of detectors.

#### **1.2.8 Manual Call Station**

- a. The Manual Call Station shall be addressable type with input modules to define the device/location.
- b. The Manual call station shall be pull type resettable with suitable protection and base box.

#### **1.2.9 Input Module**

- a. The input modules shall be of /single point type.
- b. The dual channel module shall be selectable for Normally Open or closed.

#### **1.2.10 Fault Isolator**

- a. This unit shall be placed on the loop preferably between devices and shall be able to isolate electrical short circuit in the wiring.
- b. All the other detectors shall remain functional because of the Class A wiring of the loop.
- c. The isolator shall not utilize an address and shall be built into the detector base wherever required.

#### **1.2.11 Sounders**

- a. The sounders shall be of addressable type/connected by addressable module/ panel.
- b. The sounders shall derive power from separate cable with voltage adpoter/panel.
- c. It shall be capable of being directly mounted on the wall/ceiling or along with the detector.
- d. The sounder shall have an output of at least 85db at 1mtr. The sounder shall be programmed to get activated in event of an alarm from a single detector/device or a group of detectors/ devices.

### **1.3.0 FIRE ALARM SYSTEM**

- 1.3.1 The Fire Alarm System shall give Audio/Visual Alarm Signals when the temperature in case of Heat Detector or smoke density exceeds the pre-set limit.
- 1.3.2 The system shall give pinpoint location of fire with warning system.
- 1.3.3 If the system is with PA & command control centre then the voice communication for

commands and instruction shall be given to PA system console.

1.3.4 The system shall have a microprocessor-based control and monitoring facility.

1.3.5 It shall be possible to program each loop with up to minimum 127 addressable detectors and addressable modules.

1.3.6 Annunciation facility shall also be inbuilt into the Fire alarm control panel, the panel being able to initiate alarm signal for any particular zone.

1.3.7 The system shall be fully supervised for all fault conditions with distinctive alarm operated for fault and fire conditions.

1.3.8 Test buttons and software features shall be provided to test the electronic circuits and detector health.

1.3.9 In case of Fire in an area handled by Fire suppression system the Fire alarm control panel shall be able to actuate fire suppression system

1.3.10 The system shall be based on an open protocol to ensure flexibility.

#### **1.4.0 FIRE ALARM CONTROL PANEL**

1.4.1 The Fire Alarm Control Panel shall be micro processor based fully Analogue Addressable, Analogue Control Unit with centralized monitoring which shall control all Analogue Addressable Detectors, Manual Call Stations and Switching Systems (for actuating Fire suppression system)

1.4.2 All addressable units shall be connected to the Fire alarm control panel through the Loop Cards and shall be addressed through individual numbers.

The Fire alarm control panel shall be able to obtain analogue value for all detectors in the circuit through a pulsed digitalized current data. The Fire alarm control panel shall be able to analyses all analogue inputs from all addressable units, and through its own software and ambient level screening the Fire alarm control panel shall be able to identify fire, possible fire or fault conditions.

1.4.3 The unit supervision shall be dynamic and continuous.

1.4.4 The Fire alarm control panel shall also give adequate warning signal whenever there is dust accumulation in detectors.



It should be possible to change the level of ambient alarm calibration condition by the use of software program.

- 1.4.5 Short / Open circuit fault shall also be reported at the Fire alarm control panel. In such cases, the system through the use of fault isolators shall be able to isolate that segment. The missing Detectors/Devices shall also be reported at the Fire alarm control panel with identification of the location.
- 1.4.6 The Fire alarm control panel shall have the facility to set each smoke sensor sensitivity. It shall also be possible to set the sensitivity to a high level or low level based on night or day time.(time based sensing)
- 1.4.7 When an alarm condition is sensed at the Fire alarm control panel from a smoke or heat detector, a delay time/alarm verification period shall be started. If the sensor is still in alarm after the delay time expires, an alarm condition is reported. The delay time shall be adjustable from 0 to 990 sec's.
- 1.4.8 The Fire alarm control panel shall have the facility to perform walk test.
- 1.4.9 In the walk test mode, the performance of each device is checked out by initiating the device.
- 1.4.10 As each device is placed into alarm the Fire alarm control panel shall print the condition and automatically reset the device.
- 1.4.11 Audible devices shall be initiated, if required at a pre-programmed time.
- 1.4.12 If a zone is inadvertently left in walk test mode, it shall automatically reset to normal after the idle time is exceeded.
- 1.4.13 During the walk test the zones other than the programmed zones shall be under continuous supervision (normal mode).
- 1.4.14 In case of any alarm initiated by detector/devices the walk test shall get terminated automatically.
- 1.4.15 Programming functions shall include alarm/trouble type assignment, point descriptor assignment, alarm message assignment, etc.
- 1.4.16 Programming shall be carried out from the Fire alarm control panel keyboard or utilizing the authorized laptop/desktop computer software.

- 1.4.17 The Fire alarm control panel shall have a Liquid Crystal Display of Alphanumeric type.
- 1.4.18 In case of testing of the system from the Fire alarm control panel the Display shall be able to give readouts of analogue value of all detectors being tested.
- 1.4.19 The Fire alarm control panel shall also be able to carry out continuous self monitoring when in normal condition.
- 1.4.20 The Fire alarm control panel shall have provision to add either an in-built or external printer coupled to the Fire alarm control panel, which shall log all events with time.
- 1.4.21 The printout shall clearly indicate the event - Fire/Pre Alarm/Fault etc. With the unit address and time.
- 1.4.22 The Fire alarm control panel shall also be able to discriminate between false alarms and fire conditions.
- 1.4.23 The Fire alarm control panel shall carry out priority selection of alarm in case alarm activities in two or more remotely located units simultaneously. In such cases, the manual call stations shall have the highest priority.
- 1.4.24 The System shall be failure safe and adequate safe guards should be ensured that in the event of a failure of a part of the System it shall not handicap the complete System.
- 1.4.25 The agency shall be responsible for preparation and installation of System Software into the Fire Alarm Control Panel.
- 1.4.26 The Software shall be user friendly.
- 1.4.27 The system shall be secured against Software errors.
- 1.4.28 The system shall have the ability to be upgraded so as to incorporate more features at a later date.
- 1.4.29 The Fire alarm control panel shall have its own Battery Backup of a minimum of 24 hours in normal run and then half an hour in alarm condition.
- 1.4.30 The voltage rating shall be from 14V DC to 31V DC, though the voltage may be change.
- 1.4.31 The Fire alarm control panel shall be totally enclosed dust and vermin proof type made of minimum 13 gauge dust inhibited sheet with even baked finish. The Fire alarm control panel shall be of completely solid state design.

1.4.32 The Fire alarm control panel shall have UL/FM/EN54/VDS/ LPCB approval.

1.4.33 The Fire alarm control panel shall have provision for interfacing with the Public Address System & auto dialer. Fire alarm control panel shall be able to call four telephone numbers per channel.

## **1.5.0 ADDRESSABLE DETECTORS**

### **A. Multi sensor Detector**

1.5.1 All detectors shall be fitted with plug-in system type, from the maintenance and compatibility point of views. An alarm condition should not affect a detector's good functioning. After resetting the alarm, the detector shall resume operations without readjustment of any kind.

1.5.2 The detector shall have a Multi-sensor type integrates photoelectric smoke and fixed temperature heat sensing technology. It shall be possible to use a single detector type for both above and below false ceiling applications. The detector shall be capable of detecting fast flaming fires and slow smoldering fires equally well. The detector shall therefore be a multi technology detector.

1.5.3 The detector shall be able to sense incipient fire by detecting the presence of visible and invisible products of combustion. The detector shall be suitable for low voltage two wire supply. The detector shall be provided with Twin LED indication.

The sensitivity of the detector shall not vary with change in ambient temperature, humidity, pressure or voltage variation, air currents and should not trigger the false alarm due to the above condition.

1.5.4 The detector shall be suitably protected against dust accumulation/ ingress. The detector shall be free from maintenance and functionally tested at periodic intervals. All detectors shall be identical in construction design and characteristic to facilitate easy replacement and interchangeable by suitable programming.

1.5.5 The coverage per smoke detector shall strictly follow relevant standards. It shall be possible to connect Smoke Detector with Heat Detector or Manual Push Button in the

same circuit. The sensitivity of detector shall be set from the Fire alarm control panel to suit the site requirement.

### **1.6.0 MANUAL CALL STATIONS (MCP)**

1.6.1 The Manual call station shall be pull type with suitable protection and base box. The device shall be red in colour and suitable for surface or flush mounting. Manual stations shall be interface able to an addressable input module. The manual station shall have normally open fire alarm and enunciator contacts and these contacts shall close on activation. Contacts shall remain closed until station is manually reset.

1.6.2 The Manual Call Station shall be fully addressable with its own addressable module and operated by digitized signals from the FACP.

### **1.7.0 SOUNDER**

1.7.1 The sounder shall be conventional/addressable electronic type with addressable module and shall give discontinuous/Intermittent audible alarm whenever any detector or call box operates.

1.7.2 The sounder shall be powered from Main Fire alarm control panel through loop / Separate 2 wire cable.

### **1.8.0 RESPONSE INDICATOR (RI)**

1.8.1 Whenever detectors are located above false ceiling (On real ceiling) or below false flooring, response indicators(RI) shall be provided for quick identification of the fire location and for convenient testing of the detector and shall have protection against reverse polarity and voltage surges.

1.8.2 Response indicators shall be installed with top at 300mm above false floor for detectors in false floor and on the false ceiling for detector above false ceiling near to the location of detectors. RI should be installed in a suitable location which is normally visible.

### **1.9.0 FIRE ALARM SYSTEM TESTING**

1.9.1 Fire Alarm Control Panel

a. The FACP shall be visually checked for input voltage and ampere. All zones one by one shall be

de wired to check for fault signal indication in the FACP.

- b. The Power Source shall be cut off and checked for stand by Supply from the Batteries. After four hours the FACP Source shall be switched on to check for auto switch over to the Mains mode.
- c. Tests shall be conducted for AC fail, charger fail, DC fail, Battery Disconnect or Battery fail. In all such cases the relevant LED should glow and the piezo sound shall also give sound output.
- d. Low battery indication, fault indication should be made available at the panel.

### **1.9.2 Smoke Detector**

- a. The testing shall be carried out for each loop / zone.
- b. Initially one detector in a zone and subsequently 2 or more disassociated detectors in each zone shall be tested for Alarm Priority, Alarm Queuing and Call Logging with time lapse between detectors.
- c. An identified detector shall be subject to smoke aspiration from burning paper/cigarette puffs, rubber and other materials which give dense smoke held at 0.3 M distance from the detector.
- d. The FACP should indicate increased analogue output for that address and after the programmed delay time, a fire alarm signal shall be indicated. This delay shall be utilized for alarm verification.

### **1.9.3 Combined Test**

- a. The combined test shall be in combination of Photoelectric / Heat Detectors simultaneously with time lapse between application of smoke or heat or as Additional Test

### **1.9.4 Additional Test**

- a. One detector of each type will be disconnected and subjected to slow dust build - up by means as desired by the Consultant/client and again connected in the circuit.
- b. Any part of the Loop shall be short circuited. The FACP shall indicate the communication failure of all the devices connected in the short circuited segment.
- c. After the short circuit is corrected, the Fault Isolator shall return to its normal status automatically, this being reflected in the FACP.

The Loop shall then be in normal operation again. Any part of the Loop shall be de wired and tested as given above for open fault.

1.9.5 All other tests as required by the client at the time of handing over shall also to be conducted.

1.9.6 All fire alarm system i.e Addressable panel, Smoke detector, Hooter, Manual call point should be of same make. Master and slave actuator also be of same make.

## **SPECIAL CONDITIONS OF CONTRACT**

### **1) GENERAL**

The following special conditions shall be read in conjunction with general conditions of contracts and amendments thereto. If there are any provisions in these special conditions which are in variance with the provisions in the other documents, the provisions in these special conditions shall take precedence. The work shall generally be carried out as per IE rules & National building/Electrical code/Fire manuals/BSNL & CPWD specifications & NIT conditions. Department reserves the right to award the work in full or in parts to different agency.

### **2) INSPECTION OF SITE AND CONTRACT DOCUMENTS**

For the purpose of inspection of site and relevant contract the contractor is required to contact the Executive Engineer concerned who shall give reasonable facilities for inspection of the same. The contractor shall inspect and examine the site and shall satisfy himself, before submission of his tender as to the form and nature of site, the quantities and nature of work, materials necessary for completion of work and shall himself obtain all necessary information as to risks, contingencies and circumstances which may influence or affect his tender. No extra charges consequent to any misunderstanding or otherwise shall be allowed.

### **3) SUFFICIENCY OF TENDER**

The contractor shall be deemed to have satisfied himself before entering into the contract as to the correctness and sufficiency of his offer, the work and of the rates quoted in the schedule of works. These rates and amounts shall, except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for proper completion and maintenance and guarantee of the work.

### **4) STORES AND MATERIALS**

All the stores and materials required for the satisfactory completion of work except those specified as departmental supply shall be arranged at work site by the contractor from his own resources or open market. It should be clearly understood that no claim whatsoever shall be entertained by the department on this account. Safe custody of the material brought and installed at site shall be contractor's responsibility till the installation is taken over by the department after successful, performance and acceptance testing. List of approved materials are furnished. In case the firm desires to offer a material not in list, prior permission in writing is to be obtained from Engineer-in-charge.

### **5) PROGRAMME FOR EXECUTION**

Within 15 days from the date of award of the work the contractor shall submit his programme for submission of drawings, supply of equipment, installation, testing and commissioning of the smoke detector system.

The programme shall be framed keeping in view the priorities of areas which might be needed to be covered in the first instant.

## **6) APPROVAL OF DRAWING**

- a) The contractor shall get the following drawings approved before start of the work.
  - i) Floor plans showing location of detectors indicating the proposed distances between the detectors.
  - ii) Floor plans indicating the locations of main control panel, local control panels, hooters, manual call points, response indicators etc.
  - iii) Conduit/cable layout diagrams clearly indicating details of detectors and other devices connected in a particular zone.
  - iv) Drawing showing general arrangement of main control panel and local control panels.
- b) The approval of drawings by the department shall not absolve the firm of their responsibility for supplying and installing the system confirming to relevant standards and specifications and schedule of work.
- c) In case it is mandatory, as per local by-laws, to get CFO's approval, it shall be obtained by the contractor at no extra cost.

## **7) CO-ORDINATION**

Generally more than one agency are working in the same premises where fire detection system is being installed. It shall be the aim of the agencies that the work of other agency/agencies is not delayed. Full co-ordination & co-operation shall therefore be extended during the execution of work to ensure prompt & quality work.

## **8) PAINTING**

The entire exposed conduit work shall be painted with one coat of primer followed by 2 coats of approved / matching colour synthetic enamel paint with identification of red colour bands at appropriate interval (say 3 meters).

## **9) COMPLETION DRAWING**

- 1) Four sets of following drawings shall be submitted by the contractor on completion of work.
  - a) Floor plans showing location of detectors indicating the distances between the detectors.
  - b) Floor plans indicating the location of main control panel, local control panels, hooters, manual call points, response indicators etc.
  - c) Conduit/wiring layout diagrams clearly indicating details of detectors and other devices connected in particular zone.
  - d) Drawing showing general arrangement of main control panels and local control panels.



- e) Control wiring diagram of the main and local control panel.
  - f) Circuit line diagram of the power supply unit and the power amplifier.
- 2) Three sets of service and troubleshooting manuals in respect of the installation including salient details of the installation shall be supplied by the contractor.

#### 10) **TEST AT SITE**

- 1) After physical completion of the installation functional testing shall be conducted by the firm in the presence of Engineer-in-charge or any representative of the department. Functional tests on the following items shall be conducted for this purpose.
- a) Smoke detectors both ionization and photo electric type.
  - b) Response indicators.
  - c) Duct detectors
  - d) Hooters
  - e) Stand-by Battery
  - f) Heat detectors
  - g) Main and Local Control Panels
- 2) Functional acceptance testing will be conducted after successful completion of above test by the Engineer-in-charge or his representative and representative from the T&D circle of the department. Following procedure shall be followed for this purpose.
- a) Each smoke detector shall be tested by putting smoke generated by four Agarbatti Sticks at about 300 mm below the bottom of detector and the detector shall operate within 30 to 60 seconds.
  - b) The heat detectors shall be tested by creating a fire below the detector in a bucket or with hot air blower in order to achieve the requisite temperature rise for operation of detector.
  - c) All the components like ionization smoke detectors, photo electric smoke detectors, duct detectors, heat detectors main and local control panels, public address system etc, will be tested for their functional performance.

#### 11) **TAKING OVER OF INSTALLATION**

After the installation has been completed in all respects and acceptance tested successfully as per the procedure laid down above, the same shall be taken over by the department for beneficial use. The minor defects and discrepancies which might be noticed during acceptance testing shall be attended by the contractor within one month from the date of acceptance test.

#### 12) **GUARANTEE**

The complete installation shall be guaranteed for trouble free operation for a period of 12 months from the date of successful acceptance testing. Any defects discovered or developed

during this period shall be rectified by the firm free of charge including replacement of components if any.

### **13) MAINTENANCE**

1) The contractor shall provide free maintenance of 12 months from the date of successful acceptance testing. This shall include four periodical inspection visits. During this visit the contractor shall inspect the system, adjust necessary controls, if required and satisfy the department that the system is in working condition.

2) The security deposit withheld by the department will be released after four successful visits by the contractor during maintenance and guarantee period of 12 months, 5% of security deposit may be deducted for not performing each such visit.

3) The contractor shall supply two cards of each type in main and local control panels duly accommodated in panels.

### **14) TRAINING OF DEPARTMENT PERSONNEL**

The contractor shall arrange to train the personnel of the department during the execution of work, commissioning of the system and testing of the system on the following aspects of the installation.

a) Operation of system.

b) Diagnosing & attending to minor faults and defects which might develop during the course of system operation.

c) Operation and maintenance of power supply unit and the amplifier unit.

d) Replacement of zonal cards with spares available in maintenance kit.

### **15) REJECTION OF DEFECTIVE INSTALLATION**

The rejected material will be cleared from site immediately on rejection. If the complete system or any part thereof, before it is taken over, be found defective or fails to fulfill the intent of the specification, the contractor shall, on receipt of a written notice from the Engineer-in-charge forthwith make good the defects. Should the contractor fail to rectify the defects and or make good the defective system within a stipulated time mentioned in the written notice or replace the equipments/ components at no extra cost, department may make good, reject or replace the same at the risk and expenses of the contractors, the whole or any portion of the system which is defective or fails to fulfill the requirement of the contract.

### **16) BYE LAWS**

The contractor shall comply all bye laws and regulations of local bodies having jurisdiction over the works and shall be responsible for payment of all fee and other charge giving and receiving all necessary notices and keeping Engineer-in-charge informed about the notices issued and received. The contractor shall get the system/installation approved from concerned fire authorities, when required. Any statutory fees payable shall be reimbursed on actuals. The

contractor shall indemnify the department against all claims in respect of patent rights, design, trade mark for name or other protected rights in respect of any components, equipments work or materials used for or in connection with the work and from against all claims demands, proceedings, costs, charges and expenses what-so ever in respect of or in relation thereto. The contractor shall defend all actions arising from such claims and shall himself pay all royalties etc.

### **17) SPECIAL CONDITION:**

(Copy of letter No.23 (7) (1)/CEET (M)/97/ 1062 dated 10/7/97.)

**SUBJECT:** Compensation to be levied in cases of use of duplicate/spurious material in Fire Detection & Fire Alarm panel, Detectors & all other components of F.D. & F.A. system. "Department reserves the right to get inspected material in Fire Detection & Fire Alarm panel, Detectors & all other components of F.D. & F.A. system and any components thereof by the manufacturer / their authorized representative, whose report as regards to the genuineness of component shall be final and binding. In case any component upon such inspection is found to be duplicate/spurious, double the cost of such component based on price list (without any discount whatsoever) effective on date of aforesaid inspection shall be recoverable.

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

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

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

### **18) GENERAL CONDITIONS**

The following general conditions of contract are deemed to have been agreed upon.

- 1) All civil works such as construction of foundation for the equipments with masonry or the steel members as may be required is included in the scope of work.
- 2) Provision of suitable tripod or any other such stand of 300 mm height for fixing of detectors in false floor is included in the scope of work. The design of the tripod / stand shall be got approved from the Engineer-in-charge.
- 3) Any damage or breakage which might be caused during the execution of work shall be made good by the contractor at his own risk and cost.
- 4) The contractor is responsible for the removal of debris and waste materials arising out of the work done by him, from the site.
- 5) The contractor shall commence the work like laying/fixing/fixing of conduits, fixing of detectors Engineer-in-charge whose decision shall be final and binding.
- 6) Necessary tools and plants shall be arranged by the firm. Modern tools and equipment shall be need for handling of cables and Machines, drilling, chiseling, cutting etc. so that speed,

accuracy, minimum noise, vibrations and disturbance to the building/occupants/equipments can be achieved.

7. The firm shall submit all the records such as excise. Duty gate pass, test certificate, guarantee cards, operation and maintenance manuals and spares and tools of the original supplier to the department.

8. The firm shall provide necessary barriers, warnings, signals and other safety measures to avoid any accident. The employees of the firm are to be suitably insured against such accidents. The department shall not be responsible for any such accidents.

9. The concealed items like earthing, cabling, conduits etc. shall be carried out only in the presence of duly authorized departmental staff.

10. The offer shall include all charges for packing, handling, freight, insurance, loading, unloading, stacking etc. for the material.

11. Work shall generally be carried out during working hours. However, as per the Departments requirement the working hours shall be extended without any extra claim.

12. All fittings unit assemblies, accessories, hardware foundation bolts, terminal blocks for connections, cable glands and miscellaneous material and accessories of items of work which are useful and necessary for efficient assembly and working of the equipment shall be deemed to have been included within the scope of work in the tender and within the overall details for complete item whether they have been specifically mentioned or not.

# BHARAT SANCHAR NIGAM LIMITED

## LIST OF APPROVED MAKES- BSNL ELECTRICAL WING

(AS ON 29.02.2016)

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
4. HV Switchgear (Vacuum Circuit Breaker/SF6 )	Biecco Lawrie / Crompton / Kirloskar /MEI / Jyoti Ltd
5. Transformer (Oil filled / Dry type)	
a) Above 400 KVA	ABB / Schneider Electric /Andrew Yule /Bharat Bijlee / Crompton / EMCO /Kirloskar / Siemens
b) Up to 400 KVA	In addition to above makes, Uttam/Patson/Rajasthan Transformer and Switchgear
6. Air Circuit Breaker	L&T/ Schneider Electric / Siemens
7. MCCB(Ics=Icu)	L&T/ Schneider Electric / Siemens
8. SDF units	L&T/ Schneider Electric / Siemens/ HPL/ Havells
9. Power Contactors	L&T/ Schneider Electric / Siemens/ Lakshmi(LECS)
10. Change Over Switch	HPL / Havells / H-H Elcon
11. Intelligent APFC Relay	L&T/EPCOS(Siemens)/Schneider Electric / Neptune Ducati/Syntron/ABB
12. Bus Bar Trunking/ Sandwiched Bus Duct	Moeller/L&T/Schneider Electric/ABB/Legrand/Zeta
13. Power Capacitors (MPP/APP)	L&T/EPCOS(Siemens)/ABB/Crompton/ Schneider Electric/Neptune Ducati

14. Digital/ KWHr meter	Schneider Electric/ AE/ Digitron / IMP/Meco/ Rishabh / Universal/HPL/L&T/ABB/Yokins
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/ABB/HPL
18. MS/ PVC Conduit	ISI mark
19. Cable Tray	MEM/Bharti/Ratan/Slotco/Profab
20. HT/LT Cables	ISI mark
21. PVC insulated copper conductor wire	ISI mark
22. Centrifugal Pump	Amrut / BE / Beacon / Batliboi /Crompton / Jyoti / Kirloskar / KSB / Mather & platt / WASP/Grundfos
23. Submersible Pump	Crompton/Amrut / BE / Calama /Kirloskar / KSB
24. Motors	ABB/ Bharat Bijlee / Crompton Greaves/Schneider Electric / HBB / KEC/Siemens/Jyoti Ltd
25. Fresh Air Fans	GE / Khaitan/Almonard/Crompton
26. Starter	ABB / BCH / Schneider Electric / L&T / Siemens /
27. Single Phase Preventer	L&T / Minilec / Siemens / Zerotrip
28. GI/MS Pipe	ATC / ATL / BST / GSI / ITC / ITS / IIA / JST / Jindal /TTA / Tata/Zenith
29. Foot Valve	ISI mark
30. Gate Valve	Advance/Audco/Johnson Controls/Zoloto /Annapurna / Fountain /Kirloskar / Leader / Sant / Trishul
31. Compressors	Carrier/Emerson Copeland/York/Danfoss (for chillers only)
32. Resin Bonded Glass wool	Fibre Glass / Pilkington / UP 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
39. Ionization Detector	Appollo / Cerebrus / Edward/ /Fenwal / Hochiki / Nitton / System Sensor /Wormald
40. Photo Electric Smoke Detector	Appollo / Cerebrus / Edward / Fenwal/ Hochiki / Nitton / Wormald
41. Fire Panel (Microprocessor based)	Agni Instruments / Agni Devices/ Aruna Agencies/ Carmel Sensor / Ravel Elect. /Honeywell Essar/Notifier/Navin Systems
42. Sprinkler/ Hose Reel & Hose Pipe	ISI mark
43. Fire Extinguisher	ISI mark
44. Lift	OTIS/ Kone/ Mitsubishi/ Schindler/Johnson

**NOTE-**

1. In case of External / PMC works, the list of approved makes may be modified as per client's requirement.

2. The accessories such as CT/PT/measuring instrument/relays provided by approved make in respect of Transformer/HT Panel/DG /AC Package by approved make in respect of Transformer/HT Panel/DG /AC Package Units as supplied by approved manufacturer along with the equipments are also acceptable in addition.

3. Any additional makes may be approved by concerned PCEs/Sr CEs/CEs(Elect) for the work under his jurisdiction as already accorded vide letter no. 3-2-5/EW/VEP-1/2007 dated 05-07-2007.

# BHARAT SANCHAR NIGAM LIMITED

*( A Govt. Of India Enterprise)*

O/o The Executive Engineer (E), BSNL Electrical Division,  
OC;05, 2<sup>nd</sup> Floor, GMTD, Building, Super market Complex  
Dimapur-797112, Nagaland  
Tel. No. 03862-235500

**NIT NO. : 11/EEE/BSNL/DMP/2019-20**

**Name of Work:- Supply, Installation, Testing and Commissioning of Addressable Fire detection & Fire alarm system for Telepresence Studio under UNMS Project for NFS Work at Rangapahar, Nagaland. 4<sup>th</sup> CALL.**

## **PART – II (UNPRICED BID)**

### INDEX

SR. No.	CONTENTS	PAGE NO
1	Schedule of Work. ( BOQ)	65 to 67



## SCHEDULE OF WORK

**Name of Work: Supply, Installation, Testing and Commissioning of Addressable Fire detection & Fire alarm system for Telepresence Studio under UNMS Project for NFS Work at Rangapahar, Nagaland. 4<sup>th</sup> CALL.**

Sl. No.	SoR Item Description	Total quantity	Unit	Unit Price including all Taxes (w/o GST)	Unit	AMOUNT
1	2	3	4	5	6	7=3 X 5
1	S I T C of Analogue addressable U L/FM approved micro Processor controlled, Standalone Main Fire Alarm Control Panel having 1 loop (1 Loop Card) (with minimum 126 devices capacity per loop card ) with provision of 2 loop card circuits, LCD display , capable of being networked to the central monitoring System to monitor and integrate with other panels such as Access control System along with accessories like detectors, LCP's, hooters, control modules, monitor modules Fault Isolation Modules, response indicators, fire/fault indicators, audio-visual signals, central processing units, complete with LCD display, zone indicating LEDs, having multiple access levels, event history file in non-volatile memory (EEPROM) as per the detailed specification, complete with PSU, Battery backup along with charger for 24 hours in non-alarm condition and 30 minutes in alarm condition etc. as required for each panel.	01	No		Each	
2	<b><u>Addressable Multi Sensor Detector</u></b> Supply, Installation, Testing and Commissioning of Addressable analogue MULTISENSOR / MULTICRITERIA type, UL Listed photo cum thermal detectors with solid state design, indicating LED, mounting base, mounting bracket etc. base box, loop in & loop out gland as per requirement and detailed specification as per following positions. ( Note :- Date of manufacturing of Detectors shall not be more than 6 months at time of supply also Make of Detectors and its base should be same. )					
A	On Real Ceiling (Base Box is to be Used)	04	Nos		Each	
3	<b><u>Addressable Optical Detector:</u></b> Supply, Installation, Testing and Commissioning of Addressable analogue Optical / type, UL Listed photo cum thermal detectors with solid state design, indicating LED, mounting base, mounting bracket etc. base box, loop in & loop out gland as per requirement and detailed specification as per following positions. ( Note :- Date of manufacturing of Detectors shall not be more than 6 months at time of supply also Make of Detectors and its base should be same. )					
A	On False ceiling ( Base box to be Used)	06	Nos		Each	

4	<b><u>Addressable Heat Detector:</u></b> Supply Installation Testing and Commissioning of UL Listed Intelligent Analogue addressable ROR Heat detector with junction box etc complete as required.( Note :- Date of manufacturing of Detectors shall not be more than 6 months at time of supply also Make of Detectors and its base should be same. ).	01	No		Each
5	<b><u>Addressable control modules:</u></b> Supply Installation Testing and Commissioning of UL Listed, Addressable control module complete with junction box etc. for control options for Hooters & for other control options like PA evacuation, Access Doors opening, Package AC trip etc.and hooters in case of emergency, etc complete as required.	01	No		Each
6	<b><u>Manual Call Point:</u></b> Supply Installation Testing and Commissioning of UL Listed Manual call points with NO/NC contacts slim type with Pull type/break glass with Reset Lock & Key arrangement suitable for addressable function etc complete as required.	02	Nos		Each
7	<b><u>Electronic Hooter Cum Strobe:</u></b> Supply Installation Testing and Commissioning of Hooter having three distinct sounds with addressable relay module and strobe light with minimum 85 db from 1Mtr distance etc complete as required.	01	No		Each
8	<b><u>Electronic Hooter :</u></b> Supply Installation Testing and Commissioning of Hooter having three distinct sounds with addressable relay module with minimum 85 db from 1Mtr distance etc complete as required.	04	Nos		Each
9	<b><u>Fault Isolator Module:</u></b> Supply Installation Testing and Commissioning of UL Listed Fault isolation module to electrically isolate different sections of detector loops (for every 20 detectors/devices) as per detailed specifications.etc complete as required.	02	Nos		Each
10	<b><u>Response Indicator:</u></b> Supply Installation Testing and Commissioning of Response indicator having twin LEDs for mounting on false ceiling / wall at the entries of the cabin for indicating the operation of detectors in the above false ceiling / below false flooring detectors etc. as required.	09	Nos		Each
11	Supply Installation Testing and Commissioning of LED Emergency Exit signage with 3 hour battery backup etc. as required.	01	No		Each
12	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC conduit as required.				
a)	2x1.5 sq mm	200	Mts		Mtr
13	Supplying & fixing ISI mark ready to use Clean agent stored pressure type fire extinguisher of 2.0 kg capacity as per standard IS no. 15683:2006 with working pressure up to 15 kg/sqcm , fitted with pressure gauge, filled with listed environment friendly clean agent with hose of suitable length & horn duly charged along with suitable size of clamps to hold the fire extinguishers etc as required (M/s Safex/Cease fire/Monark/Firex/ss make)	01	No		Each

14	Supplying & fixing ISI mark CO2 Type Fire Extinguisher 4.5KG Capacity fitted with 1Mtr Hose Horn etc complete as required.(M/s Safex/Cease fire/Monark/Firex/ss make)	02	Nos	Each	
		NET COST TO BSNL Total excluding GST			-
		ADD % GST			.....%
		TOTAL GST Amount			
		TOTAL Cost i/c GST			

**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) The firm should quote for each item separately. They should not club the items while quoting.
- (v) 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.

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