

कार्यालय महा प्रबंधक/ **Office of the General Manager,**
पारेषण परियोजना/**Transmission Projects,**
पांच वां तल, भा.सं.नि.लि भवन /5th Floor, BSNL Bhavan,
आदर्श नगर हैदराबाद / **Adarsh Nagar, Hyderabad – 500063**

भारत संचार निगम लिमिटेड
भारत सरकार का उद्यम

BHARAT SANCHAR NIGAM LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)

{ **GM : 2322 4546 SDE : 2322 5533**  **FAX : 2322 1444**

सं **NO.GMTP/HD/NME/2011-12/34,** दि **Dated @ HD, the 10th Aug 2011**

To

The Chief General Manager,
All Territorial Circles, BSNL

Sub : Campus LAN implementation under NME Universities - reg

** ** *

Tender for implementation of campus wide LAN in the universities connected under NMEICT project has been finalized.

M/s Sai Infosystem, Limited Ahmedabad is L1 vendor and
M/s Sterlite Technologies Limited is L2 vendor.

Universities are allotted Circle wise to the vendors. Allotment to the vendors is at **annexure-1**. The terms and conditions and other details are available in the (tender document) at **annexure – 2**.

Execution of campus wide LAN connectivity shall be taken up by the respective vendor in the universities that have given their consent (**annexure -3**) for bearing 25% of the cost for the said connectivity. Remaining 75% of the cost will be borne by MHRD.

In view of the above, it is requested to instruct the SSAs concerned, to persue and obtain consent from the remaining universities also.

For queries if any regarding Campus LAN connectivity, vendors may be contacted.

L1 Vendor – Shri Biren Rawal – 09374409105 & 1860 233 4445

L2 Vendor – Shri Ashish Pratap Singh – 09212292775

आई.एन.वाई. प्रसाद / **I.N.Y. Prasad,**
(National Coordinator)

वरिष्ठ महा प्रबंधक, पारेषण परियोजना / **Sr. General Manager, Transmission Projects,**
हैदराबाद / **Hyderabad. Mobile No. 94406 23459.**

Encl: Annexure :

1. List of Circles Allotted to L-1 & L-2
2. Tender Document
3. List of consented universities as on date.

प्रति लिपि **Copy to :**

1. Sr. GM (NWP-BB), Corporate office, New Delhi
2. CGM, STP, Chennai
3. M/s SailInfosystems Ltd
4. M/s Sterlite Technologies

Annexure-1

List of Circles allotted to L1 vendor

Region	Allotment	No of universities	Circles
Southern	complete	124	AP, KTK, Kerala & TN
Western	complete	74	Chhattisgarh, MP, Gujarat, Goa, Maharashtra
Northern	partial	59	(Punjab...9 ,Rajasthan...38 and Uttaranchal..12)
Eastern	Partial	24	(WB, Sikkim and Kolkata) ..22 and Arunachal..2)

List of Circles allotted to L2 vendor

Region	Allotment	No of universities	Circles
Northern	partial	63	(UP East-24., UP West-16., Haryana-11., J&K-8., HP-4)
Eastern	Partial	56	Bihar-14., Jharkhand-10., Orissa-14., North East (except Arunachal)-18

Annexure -2

Tender document

Annexure – 3

Universities which have given consent and allotted to L1 vendor

SL.NO	UNIVERSITY NAME	STATE
1	Vikram Simhapuri University, Nellore	ANDHRA PRADESH
2	Maulana Azad National Urdu University, Hyderabad-500803.	ANDHRA PRADESH
3	Acharya Nagarjuna University, Nagarjuna Nagar, Guntur-522510.	ANDHRA PRADESH
4	Jawaharlal Nehru Technological University, Anantpur	ANDHRA PRADESH
5	Koneru Lakshmaiah Education Foundation, Greengields, Kunchabnapli Post, Vaddeswaram, Guntur District, Andhra Pradesh	ANDHRA PRADESH
6	Guru Ghasidas Vishwavidyalaya, Bilaspur-495009	CHATTISGARH
7	B.S. abdur Rahman Institute of Science and Technology, vandalur, Chennai	CHENNAI
8	Mahatma Gandhi University, Kottayam-686560	KERALA
9	Sree Sankaracharya University of Sanskrit	KERALA
10	The National University of Advanced legal studies	KERALA
11	Indian Institute of Space Science and Technology	KERALA
12	Bhavnagar University, Bhavnagar-364002	GUJARAT
13	Central University, of Gujarat, Plot No. 95/1, Sector2A, Gandhinagar- 3820007	GUJARAT
14	Maharaja Sayajirao University of Baroda, Vadodara-390002	GUJARAT
15	Krantiguru shyamji Krishna Verma Kachchh University, CS-60, Jubilee Ground, Bhuj-Kachchh-370001.*	GUJARAT
16	Dr. Babasaheb Ambedkar Open University, Ahmedabad-380003	GUJARAT
17	Ganpat University, Ganpat Vidyanagar, Mehsana, goazaria Highway, District Mehsana-380711	GUJARAT

18	Sumandeep Vidyapeeth, village Piparia, Taluka Waghodia, District Vadodara	GUJARAT
19	Saurashtra University, Rajkot-360005	GUJARAT
20	Hemchandraacharya North Gujarat University, P.B. No. 21, University Road, Patan-384265	GUJARAT
21	Sardar Patel University, Vallabh Vidhanagar-388120	GUJARAT
22	Gujarat Agricultural university, Sardar Krushinagar, Danthiwada, Banaskantha-385506	GUJARAT
23	Datta Meghe Institute of Medical Sciences, Nagpur-440022	MAHARASHTRA
24	North Maharashtra University, Jalgaon-425001	MAHARASHTRA
25	D.Y.Patil Education Society , Kolhapur	MAHARASHTRA
26	Shivaji University, Kolhapur-416004	MAHARASHTRA
27	Swami Ramanand Teerth Marathwada University, Nanded-431606	MAHARASHTRA
28	Mahatma Gandhi antarrashtriya Hindi Vishwavidyalay, Wardha	MAHARASHTRA
29	Vikram University, Ujjain-456010	MADHYA PRADESH
30	Doon University, Campus Office, 388/2, Indira Nagar Dehradun.	UTTARAKHAND
31	Singhania University	Rajasthan
32	Central University, Ajmer	Rajasthan
33	Forest Research Institute, Dehradun-248195.	UTTARAKHAND
34	Himgiri Nabh Vishwavidyalaya (University in the Sky), Dehradun.	UTTARAKHAND
35	Hemwati Nandan Bahuguna Garhwal University, Srinagar-246174.	UTTARAKHAND
36	Ranichennamma University	Karnataka
37	Vidyasagar University, Midanapor	West bengal
38	Gaur Banga University, Malda	West bengal
39	Vishva Bharti University, Shantiniketan, Suri	West bengal
40	North bengal University, Siliguri	West bengal
41	The Bengal Engineering & Science University, Shibpur, Howrah-711103.	Kolkata Telephones
42	West Bengal State University , Barasat Govt. College, Annexure Building, 10, KNC Road, Kolkata-700124.	Kolkata Telephones
43	Kalyani University, Kalyani-741235	Kolkata Telephones

44	Rabindra Bharati University, Kolkata-700050	Kolkata Telephones
45	Jadavpur University, Calcutta-700073	Kolkata Telephones
46	Ramakrishna Mission Vivekananda Educational Research Institute, Belurumath,Howrah	Kolkata Telephones
47	West Bengal State University of Animal & Fishery Science, Belgauchi, West Bengal	Kolkata Telephones
48	The West Bengal University of Health Sciences, DD-36, Sector-1, Salt Lake, Kolkata-700064	Kolkata Telephones
49	Netaji Subhash Open Univesity, Kolkata-700020	Kolkata Telephones

Universities which have given consent and allotted to L2 vendor

SL.NO	UNIVERSITY NAME	STATE
1	Patna University, Patna-800005	BIHAR
2	Nalanda Open University, Patna-800001	BIHAR
3	Chanakya National Law University, Near Bigrapur Bus Stand, Patna	BIHAR
4	MagadhUniversity, Bodh Gaya-824234	BIHAR
5	Babasahe Bhimrao Ambedkar Bihar University, Muzaffarpur-842001	BIHAR
6	Bhupendra Narayan Mandal University, Madhepura-852113	BIHAR
7	K.S. Darbhanag Sanskrit Vishwavidyalaya, Darbhanga-846008	BIHAR
8	Maulana Mazharul Haque Arabic & Persian Unversity, 3 Polo Road, Patna-1	BIHAR
9	Veer Kunwar Singh University, Arrah-802301.	BIHAR
10	Lalit Narayan Mithila University, Darbhanga-846008	BIHAR
11	Jai Prakash University, Chhapra-8410301.	BIHAR
12	T.M. University, Bhagalpur-812007	BIHAR

13	Chaudary devi lal University, sirsa	Haryana
14	BPS Mahila Mahavidhayalaya	Haryana
15	Pt Bhagwat dayal health university,Rohtak	Haryana
16	Manipur University, Imphal-795003	MANIPUR
17	Central Agricultural University, Imphal-795004	MANIPUR
18	North Orissa University, Baripada, Kistrict Mayur bhanj-757003, Bhubaneswar	ORISSA
19	VSSUT,Burla,Dist: Sambalpur,Orissa	ORISSA
20	Shiksha O Anusandhan, Khandagiri, Bhubaneshwar	ORISSA
21	NIT Rourkela	ORISSA



भारत संचार निगम लिमिटेड
Bharat Sanchar Nigam Limited

(भारत सरकार का उद्यम)(A Government of India Enterprise)

Connecting India

कार्यालय मुख्य महाप्रबंधक दक्षिण दूरसंचार परियोजना परिमण्डल चेन्नै 600 028

O/o Chief General Manager, Southern Telecom Projects, 25, Greenways Lane, Raja Annamalaipuram, Chennai-600 028
Ph.044-2495 2208 MM CELL FAX. 044-2495 6405

Notice Inviting Tender

NIT No. CGMP/CHI/NMEICT-TENDER/2010-11/2 dated at Chennai the 20.12.10

**Tender for implementation of University LAN Infrastructure under
National Mission for Education through Information & Communication Technology
On turn Key Basis**

On behalf of Bharat Sanchar Nigam Limited (BSNL) wax/tape sealed Bids, on rupee payment basis, are invited on two stage bidding system from Companies registered in India fulfilling eligibility conditions as per enclosure for Supply, Installation, and facility Management of University LAN Infrastructure under NME Project on Turnkey basis. Roll out of this Project is 3 years. The equipments should conform to TEC and other specifications contained in the tender document.

Tender No.	CGMP/CHI/NMEICT/TENDER/2010-11/2 dated at Chennai the 20.12.10
Tender Available From	14-01-2011 to 24-01-2011 from 11.00 to 16.00Hrs on all working days
Date of receipt of queries from bidders	Up to 16.00Hrs of 30-01-2011
Reply to queries by BSNL	Before 17.00Hrs of 03-02-2011
Last Date of Submission of Tender	10-02-2011 upto 13.00Hrs
Date & Time of Opening of Tender (Technical Bid only)	10-02-2011 at 14.00Hrs
Total Estimated Cost	₹ 280.5/-Crores
Bid Security in the form of Bank Guarantee	₹ 2/- Crores
Cost of Tender Form	₹ 10400/- Non Refundable.
Mode of Payment for tender form	Crossed DD drawn on any scheduled bank payable at Chennai in favour of "Accounts Officer (Cash), O/o CGM Projects,BSNL,Chennai-28".

Tender document will be issued to the intending bidders, who submit the DD as indicated above towards the cost of tender document and a Non Disclosure Agreement (NDA) on a ₹ 100/-Non-Judicial Stamp paper in the prescribed format (available in the web site: www.stp.bsnl.co.in.) signed by the Authorised Signatory of the bidder company. Documents authorizing the Authorised Signatory for signing the NDA namely POA, Board Resolution, Certificate of Incorporation of the Company have to be submitted at the time of execution of NDA to this Office. Signing of an integrity pact on a ₹ 100/-Non-Judicial Stamp paper by both purchaser and participant bidder/ vender is mandatory. The Integrity Pact has to be signed in advance by the AGM (MM), O/o.CGMP, Chennai and the Authorized signatory of the Bidder and the same is to be submitted along with the tender document.

Asst. General Manager (MM)
O/o. C.G.M. Projects, Chennai-28.



SECTION II INSTRUCTIONS TO BIDDERS

A INTRODUCTION

1.0 DEFINITIONS

- (a) **"The Purchaser"** means the Bharat Sanchar Nigam Ltd. (BSNL), New Delhi
- (b) **"The Bidder"** means the firm which participates in this tender and submits its bid.
- (c) **"The Supplier"** means the individual or firm supplying the goods under the contract.
- (d) **"The Goods"** means all the equipment, and/or other materials which the Supplier is required to supply and install under the contract.
- (e) **"The Advance Purchase Order"** means the intention of Purchaser to place the Purchase Order on the bidder.
- (f) **"The Purchase Order"** means the order placed by the Purchaser on the Supplier signed by the Purchaser including all attachments and appendices thereto and all documents incorporated by reference therein. The purchase order shall be deemed as "Contract" appearing in the document.
- (g) **"The Contract Price"** means the price payable to the Supplier under the purchase order for the full and proper performance of its contractual obligations.
- (h) **"Successful Bidders (s)"** means the bidder(s) to whom work in this tender is awarded.
- (i) **"Telecom Service Provider"** means any Telecom operator in India, who is licensed by the Department of Telecommunications (DOT), Government of India to provide telecom services to the general public or to the other DOT licensed Telecom operators.

2.0 ELIGIBLE BIDDER:

Clause 3 of Section IV Part -A (Eligibility and Special Terms and Conditions of the Contract) may be referred.

3.0 COST OF BIDDING

The bidder shall bear all costs associated with the preparation and submission of the bid. The Purchaser will, in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

B. THE BID DOCUMENTS

4.0 DOCUMENTS REQUIRED

- 4.1 The goods required to be supplied, bidding procedures and contract terms and conditions are prescribed in the Bid Documents. The Bid documents include:

Section I	Notice Inviting Tender
Section II	Instructions to Bidders
Section III	General (Commercial) Conditions of Contract
Section IV Part A	Eligibility and Special Terms & conditions of Contract
Part B	Technical & Functional Requirements of the contract
Section V	Schedule of Requirements
Section VI	Technical Specifications
Section VII (Part I & II)	Bid Form and Price Schedules
Section VIII	Bid Security Form
Section IX	Performance Security Bond Form
Section X	Letter of authorization to attend bid opening
Section XI	Consortium Agreement
Section XII	Undertaking to be given by all Technology Partners
Annexure I	OFC Laying Guidelines
Annexure II	List of Universities
Annexure III	Facility Management
Annexure IV	Annual Maintenance Contract (AMC) Agreement
Annexure V	Integrity Pact
Annexure VI	Support Certificate by (Original equipment manufacturer) OEM
Annexure VII	Customer Letter
Annexure VIII	Certificate for Security Clearance
Annexure IX	Check List of Documents to be submitted.

READ, UNDERSTOOD AND COMPLIED WITH



4.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the Bid Documents. **Failure to furnish all information required as per the Bid Documents or submission of the bids not substantially responsive to the Bid Documents in every respect will be at the bidder's risk and may result in rejection of the bid.**

5.0 CLARIFICATION OF BID DOCUMENTS

5.1 A prospective bidder, requiring any clarification on the Bid Documents shall notify the Purchaser in writing or by FAX at the Purchaser's mailing address indicated in the invitation of Bid. The Purchaser shall respond in writing to any request for the clarification of the Bid Documents, which it receives **upto 17.01.2011**. Copies of the query (without identifying the source) and clarifications by the Purchaser shall be sent to all the prospective bidders who have received the bid documents.

5.2 Any clarification issued by BSNL in response to query raised by prospective bidders shall form an integral part of bid documents and it may amount to an amendment of relevant clauses of the bid documents.

5.3 If required, BSNL may hold a vendor conference. In this conference, BSNL will address the clarifications sought by the bidders with regard to the RFP document. The pre-bid conference, if required, would be held in the fourth week of start of sale of tender document.

5.4 Purchaser reserves the right not to respond to any / all queries raised or clarifications sought if, in their opinion and at their sole discretion, they consider that it would be inappropriate to do so or do not find any merit in it. No extension to any deadline referred in this document will be granted on the basis or grounds that purchaser should respond to any queries to provide any clarification.

5.5 Purchaser shall not entertain any further queries from the bidders after their written queries and those raised in the pre-bid conference are responded.

6.0 AMENDMENT OF BID DOCUMENTS

6.1 At any time, prior to the date of submission of Bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify bid documents by amendments.

6.2 The amendments shall be notified in writing or by FAX to all prospective bidders on the address intimated at the time of purchase of the bid document from the purchaser and these amendments will be binding on them.

6.3 In order to afford prospective bidders a reasonable time to take the amendment into account in preparing their bids, the purchaser may, at its discretion, extend the deadline for the submission of bids suitably.

C. PREPARATION OF BIDS

7.0 DOCUMENTS COMPRISING THE BID

The bid prepared by the bidder shall comprise the following components:

- (a) Documentary evidence established in accordance with the **clause 2 & 10** of section-II that the bidder is eligible to bid and is qualified to perform the contract if his bid is accepted.
- (b) Bid Security furnished in accordance with **clause 12** of section -II.
- (c) A Clause by Clause compliance as per **clause 11.2 (c)** of section -II
- (d) A Bid form and price schedule completed in accordance with **clause 8 & 9** of section-II.

8.0 BID FORM

The bidder shall complete the bid form and appropriate Price Schedule furnished in the Bid Documents, indicating the goods to be supplied, brief description of the goods, quantity and prices as per section VII.

9.0 BID PRICES

9.1 The bidder shall give the total composite price inclusive of all Levies & Taxes i.e. Sales Tax & Excise, packing, forwarding, freight and insurance etc. but excluding Octroi/Entry Tax which will be paid extra as per actuals, wherever applicable. The basic unit price and all other components of the price need to be individually indicated against the goods it proposes to supply under the contract as per the price schedule given in Section VII part II. Prices of incidental services should also be quoted. The offer shall be firm in Indian Rupees. No Foreign exchange will be made available by the purchaser.

9.2 Prices indicated in the Price Schedule shall be entered in the following manner

READ, UNDERSTOOD AND COMPLIED WITH



- (i) The Basic Unit price of the goods, Excise duty, Sales Tax, Freight, Forwarding, Packing, Insurance and any other Levies/Charges already paid or payable by the supplier shall be quoted separately item wise.
- (ii) The supplier shall quote as per price schedule given in section VII part-II for all the items given in schedule of requirement.
- 9.3 A bid submitted with an adjustable price quotation will be treated as non - responsive and rejected.
- 9.4 The prices quoted by the bidder shall be in sufficient detail to enable the Purchaser to arrive at the price of equipment/system offered.
- 9.5 **"DISCOUNT, if any, offered by the bidders shall not be considered unless they are specifically indicated in the price schedule. Bidders desiring to offer discount shall therefore modify their offers suitably while quoting and shall quote clearly net price taking all such factors like Discount, free supply, etc, into account".**
- 9.6 The price approved by BSNL for procurement will be inclusive of levies and taxes, packing, forwarding, freight and insurance as mentioned in clause 9.1 subject to other terms and condition as stipulated in clause 22.2 of Sec. II and clause 11 of Sec. III of Bid-document.
- 9.7 The freight by sea for transportation of equipment/Stores from the nearest port in the main land to Andaman & Nicobar Islands will be reimbursed to the supplier at the concessional rates levied by Ministry of Water and Surface Transport on production of proof.
- 10.0 **DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATION**
- 10.1 The bidder shall furnish, as part of the bid documents establishing the bidder's eligibility, the following documents or which ever is required as per terms and conditions of Bid Documents.
- i) Certificate of incorporation.
- ii) Article or Memorandum of Association or partnership deed or proprietorship deed as the case may be.
- iii) Registration certificate from State Director of Industries or from Secretariat for Industrial Approval (SIA) , Ministry of Industries, Government of India.
- iv) Approval from Reserve Bank of India /SIA in case of foreign collaboration.
- v) Latest and valid NSIC Certificate duly **notorised if concession is claimed in bid security**.
- vi) Type Approval Certificate (TAC) issued by Telecom Engineering Centre/ TSEC issued by QA circle or proof of having applied for TEC/TSEC (Copy of Form B/QF 103 be attached. (If applicable)
- vii) Inspection Certificate issued by BSNL (QA) for execution of Educational/Commercial Order. (If applicable)
- viii) Undertaking duly signed by front bidder and its technology/consortium partner stating that both of them shall be liable for due performance of the contract jointly and severally.
- 10.2 (i) The bidder shall furnish Annual Report and a certificate from its bankers as an evidence that he has financial capability to perform the contract.
(ii) The bidder shall furnish documentary evidence about technical and production capability necessary to perform the contract.
- 10.3 In order to enable the Purchaser to assess the provenness of the system offered, the bidder shall provide documentary evidence regarding the system being offered by him.
- 10.4 The offered product has to be QA approved wherever applicable. For this purpose, the supplier shall submit a sample type for evaluation. The sample would be evaluated for its ability to meet the technical specifications, manufacturability, reliability, testability, ease of installation, maintainability etc. Necessary documents to substantiate these attributes will have to be submitted at the time of application for approval by the supplier for obtaining TSEC approval.
Or
In case goods offered have already been TSEC approved/ validated by the Purchaser, documentary evidence to this effect shall be submitted by the bidder.
- 10.5 A signed undertaking from Authorised Signatory of the bidder that shall certify that all the components/parts/assembly/software used in the Desktops and Servers like Hard disk, Monitors, Memory etc. shall be original, new components/parts/ assembly/software and that no refurbished/duplicate/ second hand components/parts/ assembly/software are being used or shall be used.



- 10.6 For supply of any software i.e. operating system or any applications software the bidder should have a Certificate Of Authenticity (COA), signed by Authorized Signatory stating that all Software supplied are authentic and legal copy is/are being supplied.
- 11.0 DOCUMENTS ESTABLISHING GOOD'S CONFORMITY TO BID DOCUMENTS**
- 11.1 Pursuant to clause 7, the bidder shall furnish, as part of his bid, documents establishing the conformity of his bid to the Bid Documents of all goods and services which he proposes to supply under the contract.
- 11.2 The documentary evidences of the "goods and services" conformity to the Bid Documents, may be, in the form of literature, drawings, data etc. and the bidder shall furnish :
- (a) a detailed description of goods with essential technical and performance characteristics;
- (b) a list, giving full particulars including available sources and current prices of all spare parts, special tools, etc., necessary for the proper and continuous functioning of the goods for a period of three years following commencement of use of the goods by the purchaser, and
- (c) a clause-by-clause compliance on the purchaser's Technical Specifications and Commercial Conditions demonstrating substantial responsiveness to the Technical Specifications and Commercial Conditions. In case of deviations, a statement of the deviations and exception to the provision of the Technical Specifications and Commercial Conditions shall be given by the bidder. **A bid without clause-by-clause compliance of the Technical Specifications (Section VI), Commercial Conditions (Section III) and Special Conditions (Section IV) shall not be considered.**
- 11.3 For the purpose of compliance to be furnished pursuant to the clause 11.2(c) above, the bidder shall note that the standards for the workmanship, material and equipment and reference to the brand names or catalogue number, designated by the Purchaser in its Technical specifications are intended to be descriptive only and not restrictive.
- 12.0 BID SECURITY**
- 12.1 (i) Pursuant to clause 7, the bidder shall furnish, as part of his bid, a bid security for an amount of **₹ 2.00 Crores (Rupees Two Crores)** only. The bidders (small scale units) who are registered with National Small Scale Industries Corporation UNDER SINGLE POINT REGISTRATION SCHEME are exempted from payment of bid security up to the amount equal to their monetary limit. OR Rs. Fifty lakhs whichever is lower.:
- A proof regarding current registration with NSIC for the tendered items will have to be attached along with the bid.
 - The enlistment certificate issued by NSIC will not be permanent and should be renewed within two years of its presentation.
 - The unit claiming concession of NSIC is required to submit its monthly turnover in support of its claim for meeting the delivery schedule.
- (ii) If a vender registered with NSIC under single point registration scheme claiming concessional benefits is awarded work by BSNL and subsequently fails to obey any of the contractual obligations, he will be debarred from any further work/ contract by BSNL for one year from the date of issue of such order.
- 12.2 The bid security is required to protect the purchaser against the risk of bidder's conduct, which would warrant the forfeiture of bid security pursuant to para 12.7.
- 12.3 The bid security shall be in the form of a bank Guarantee issued by a scheduled bank in favour of the purchaser, valid for a period of **180 days from the date of tender opening.**
- 12.4 (a) A bid not secured in accordance with para 12.1 & 12.3 shall be rejected by the Purchaser being non-responsive at the bid opening stage and returned to the bidder unopened.



(b) The Bank guarantee should be strictly as per the given format given in section-VIII of this tender document. If any change in the clauses of the Bank guarantee was made by the bidder, the bid will be rejected

- 12.5 The bid security of the unsuccessful bidder will be discharged/returned as promptly as possible but not later than 30 days after the expiry of the period of the bid validity prescribed by the purchaser pursuant to clause 13.
- 12.6 The successful bidder's bid security will be discharged upon the bidder's acceptance of the advance purchase order satisfactorily in accordance with clause 27 and furnishing the performance security.
- 12.7 The bid security may be forfeited :
- (a) If the bidder withdraws his bid during the period of bid validity specified by the bidder in the Bid form or
- (b) In the case of successful bidder , if the bidder fails :
- (i) to sign the contract in accordance with clause 28 or
- (ii) to furnish performance security in accordance with clause 27.
- (c) In both the above cases, i.e. 12.7 (a) & (b), the bidder will not be eligible to participate in the tender for same item for one year from the date of issue of APO. The bidder will not approach the court against the decision of BSNL in this regard.
- (d) "The front bidder shall submit an irrevocable undertaking duly signed by it and its technology/consortium partner stating that both of them i.e the front bidder and its technology/consortium partner shall be liable for due performance of the contract jointly and severally failing which both of them shall be liable to be barred from having any business dealing with BSNL for a period of 3 years."

13.0 PERIOD OF VALIDITY OF BIDS

- 13.1 Bid shall remain valid for **150 days** from the date of opening of bids prescribed by the purchaser pursuant to clause 19.1. **A bid valid for a shorter period shall be rejected by the purchaser being non-responsive.**
- 13.2 In exceptional circumstances, the purchaser may request the consent of the bidder for an extension to the period of bid validity. The request and the response thereto shall be made in writing. The bid security provided under clause 12 shall also be suitably extended. The bidder may refuse the request without forfeiting his bid security. A bidder accepting the request and granting extension will not be permitted to modify his bid.

14.0 FORMAT AND SIGNING OF BID

- 14.1 (i) The bidder shall prepare THREE (Two hard copies ONE marked as Original and ONE marked as Copy and ONE soft copy in CD without password)copies of the bid. In the event of any discrepancy between the copies, the original shall govern.
- (a) Envelope A : Hard Copy of ONE original and ONE copy and ONE soft copy of eligible documents as per clause 35 of Section-II
- (b) Envelope B: Hard Copy of ONE original and ONE copy and ONE soft copy of Technical & Commercial Bid
- (c) Envelope C : Hard Copy of ONE original and ONE copy and ONE soft copy of Priced Financial Bid.
- (ii) The copy of quality manual and Article or Memorandum of Association may be provided in **original and copy**
- 14.2 The original and all copies of Bid shall be typed or printed and **all the pages numbered consecutively** and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. The letter of authorization shall be indicated by written power-of-attorney accompanying the bid. **All pages of the original bid, except for un-amended printed literatures, shall be signed by the person or persons signing the bid. The bids submitted shall be sealed properly. The original tender document issued by this office along with clarifications and amendments has to be enclosed in the original bid and copies are to be enclosed in Copy. All the pages of the tender document and clarifications and amendments are to be signed by the authorized signatory.**



- 14.3 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the bidder in which case such corrections shall be signed by the person or persons signing the bid.
- 14.4 (i) The Power of Attorney specific to this tender should be submitted and executed on the non-judicial stamp paper of appropriate value as prevailing in the respective states(s) and the same be attested by a Notary public or registered before Sub-Registrar of the states(s) concerned.
(ii) The Power of Attorney be executed by a person who has been authorized by the Board of Directors of the bidder in this regard, on behalf of the Company/Institution/Body Corporate.
(iii) In case of the bidder being a firm, the said Power of Attorney should be executed by all the partner(s) in favour of the said Attorney.
- 14.5 Bidders shall number each and every page across the bid documents and give cross references to documentary support and technical literature, giving the page and clause no. of the document.
- 14.6 Bidder shall also ensure that the bid documents are properly indexed. Detailed table of contents shall be attached with the bid documents. In case the bid documents consist of multiple volumes a master index of the volumes shall be submitted separately.

D. SUBMISSION OF BIDS

15.0 SEALING AND MARKING OF BIDS :

- 15.1 The bid should be submitted in THREE covers. The first cover shall contain the original and copies of the eligibility documents as per clause 35 of Section-II of this tender document duly marked 'ORIGINAL' & 'COPY'. The second cover shall contain Technical & Commercial Bid duly marked 'ORIGINAL' & 'COPY'. The third cover shall contain Priced Financial original and copies of Priced Financial Bid. All the three covers should be sealed separately by the personal seal of the bidder.
- 15.2 (a) The envelopes shall be addressed to the purchaser at the following address :
**Assistant General Manager (MM),
O/o Chief General Manager, Southern Telecom Projects,
25, Greenways Lane, Raja Annamalaipuram, Chennai-600028**
- (b) The envelope shall bear (the project name), the tender number and the words '**DO NOT OPEN BEFORE**' (due date & time).
- (c) The inner and outer envelopes shall indicate the name and address of the bidders to enable the bid to be returned unopened in case it is declared 'late' or rejected.
- (d) Tender may be sent by registered post or delivered in person on above mentioned address (address is given in Clause 15.2 (a) above). The responsibility for ensuring that the tenders are delivered in time would vest with the bidder.
- (e) Bids delivered in person on the day of tender opening shall be delivered upto 13.00 Hrs. at the venue (address is given in clause 15.2 (f) below) of the tender opening. The purchaser shall not be responsible if the bids are delivered elsewhere.
- (f) Venue of Tender Opening: Tender will be opened in **Corporate Hall, o/o CGM, STP, Chennai-28 at 14.00 Hrs.** on the due date. If due to administrative reason, the venue of Bid opening is changed, it will be displayed prominently on Ground Floor office of Chief General Manager, Southern Telecom Projects, 25, Greenways Lane, R.A. Puram, Chennai-28.

15.3 If both the envelopes are not sealed and marked as required at para 15.1 and 15.2 , the bid shall be rejected.

16.0 SUBMISSION OF BIDS

- 16.1 Bids must be received by the Purchaser at the address specified under para 15.2 not latter than 13:00 hrs. on due date.**
- 16.2 The Purchaser may, at its discretion, extend this deadline for the submission of bids by amending the Bid Documents in accordance with clause 6 in which case all rights and obligations of the purchaser and bidders previously subject to the deadline will thereafter be subjected to the deadline as extended.



16.3 The bidder shall submit his bid offer against a set of bid documents purchased by him for all or some of the systems/equipment as per requirement of the Bid Documents. He may include alternate offer, if permissible as per the bid. However not more than one independent and complete offer shall be permitted from the bidder.

17.0 LATE BIDS

Any bid received by the purchaser after the deadline for submission of bids prescribed by the purchaser pursuant to clause 16, **shall be rejected and returned unopened to the bidder.**

18.0 MODIFICATION AND WITHDRAWAL OF BIDS

18.1 The bidder may modify or withdraw his bid after submission provided that the written notice of the modification or withdrawal is received by the purchaser prior to the deadline prescribed for submission of bids.

18.2 The bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched as required in the case of bid submission in accordance with the provision of clause 15. A withdrawal notice may also be sent by FAX but followed by a signed confirmation copy by post not later than the deadline for submission of bids.

18.3 Subject to clause 20, no bid shall be modified subsequent to the deadline for submission of bids.

E. BID OPENING AND EVALUATION

19.0 OPENING OF BIDS BY PURCHASER

19.1 The purchaser shall open bids in the presence of bidders or their authorized representatives who chose to attend, at 14:00 hrs on due date. The bidder's representatives, who are present, shall sign in an attendance register. Authority letter to this effect shall be submitted by the bidders before they are allowed to participate in bid opening (A Format is given in section X).

19.2 A maximum of two representatives of any bidder shall be authorized and permitted to attend the bid opening.

19.3 The bidder's names, Bid prices, modifications, bid withdrawals and such other details as the purchaser, at its discretion, may consider appropriate will be announced at the time of opening.

19.4 The date fixed for opening of bids, if subsequently declared as holiday by the BSNL, the revised date of schedule will be notified. However, in absence of such notification, the bids will be opened on next working day, time and venue remaining unaltered.

20.0 CLARIFICATION OF BIDS

To assist in the examination, evaluation and comparison of bids, the purchaser may, at its discretion ask the bidder for the clarification of its bid. The request for the clarification and the response shall be in writing. **However, no post bid clarification at the initiative of the bidder shall be entertained.**

21.0 PRELIMINARY EVALUATION

21.1 Purchaser shall evaluate the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are generally in order.

21.2 Arithmetical errors shall be rectified on the following basis. If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected by the purchaser. If there is a discrepancy between words and figures, the amount in words shall prevail. **If the supplier does not accept the correction of the errors, his bid shall be rejected**



- 21.3 Prior to the detailed evaluation pursuant to clause 22, the Purchaser will determine the substantial responsiveness of each bid to the Bid Document. For purposes of these clauses, a substantially responsive bid is one which confirms to all the terms and conditions of the Bid Documents without material deviations. The purchaser's determination of bid's responsiveness shall be based on the contents of the bid itself without recourse to extrinsic evidence.
- 21.4 A bid, determined as substantially non-responsive will be rejected by the purchaser and shall not subsequent to the bid opening be made responsive by the bidder by correction of the non-conformity.
- 21.5 The Purchaser may waive any minor infirmity or non-conformity or irregularity in a bid which doesn't constitute a material deviation, provided such waiver doesn't prejudice or effect the relative ranking of any bidder.
- 21.6 If any inconsistency in taxes quoted is observed in the price schedule, the same will be rectified by applying the correct tax rates prevailing on the date of opening the tender and the price bid will be evaluated accordingly.

22.0 EVALUATION AND COMPARISON OF SUBSTANTIALLY RESPONSIVE BIDS

- 22.1 The Purchaser shall evaluate in detail and compare the bids previously determined to be substantially responsive pursuant to clause 21.
- 22.2 (a) The evaluation and comparison of responsive bids shall be done on the basis of Net cost to BSNL on the prices of the goods offered inclusive of Duties and taxes (but excluding CENVAT-able Duties & Taxes), Sales Tax, Packing, Forwarding, Freight and Insurance charges etc. as indicated in Col. 17 of the price schedule in the Sec.VII part II of the Bid-document. As stipulated in clause 9.1, Octroi/Entry Taxes are not to be included in the composite price and hence the same will not be considered for the purpose of evaluation and comparison of responsive bids. However, Octroi/Entry Taxes will be paid extra. as per actuals wherever applicable on production of proof of payment/relevant invoices/documents.
- (b) (i) "Duties & Taxes for which the firm has to furnish Cenvatable Challans/Invoices will be indicated separately in the PO/APO.
- (ii) Vendors should furnish the correct E.D./Customs tariff Head in the price Schedule. If the credit for the Duties and Taxes under CENVAT Credit Rules, 2004 is found to be not admissible at any stage subsequently owing to wrong furnishing of Tariff Head, then the vendors will be liable to refund such non-admissible amount, if already paid, along with penalty if charged by the concerned authority.
- (iii) In case the Duties & Taxes which are non CENVAT-able as per the quotes indicated in the price schedule by the vendors and subsequently at any stage it is found that Credit for such Duties & Taxes is admissible as per CENVAT Credit Rules, 2004, then the vendors will be liable to refund the amount equivalent to such Duties & Taxes if already paid to them. However, the purchaser may allow the supplier to submit necessary documents in this regard which may enable the purchaser to avail the CENVAT credit provided such credit is still available for the amount so paid as per CENVAT Credit Rules 2004.
- (iv) The purchaser reserves the right to ask the bidders to submit documentary proof confirming the correct Tariff Head from the E.D./Customs authority where the Tariff Head furnished against the particular tendered item by different bidders differs from each other or the same is found apparently not furnished in accordance with E.D./Customs Tariff notifications.
- (v) "If the supplier fails to furnish necessary supporting documents i.e. Excise/Customs invoices etc. in respect of the Duties/taxes which are Cenvatable, the amount pertaining to such Duties/Taxes will be deducted from the payment due to the firm."
- (VI) In order to facilitate smooth availment of CENVAT credit by the purchaser, the bidder shall register himself with central excise authorities as I stage or II stage dealer and submit proof of such registration along with the tender document. In the event of non-availment of CENVAT credit by the purchaser on account of non-submission of relevant documents, the CENVAT credit due will be adjusted/recovered from the vendor at the time of settlement of bills.

**23.0 CONTACTING THE PURCHASER**

23.1 Subject to Clause 20, no bidder shall try to influence the Purchaser on any matter relating to its bid, from the time of the bid opening till the time the contract is awarded.

23.2 Any effort by a bidder to modify his bid or influence the purchaser in the purchaser's bid evaluation, bid comparison or contract award decision shall result in the rejection of the bid.

F. AWARD OF CONTRACT**24.0 PLACEMENT OF ORDER**

- (a) The Purchaser shall consider placement of orders for commercial supplies only on those eligible bidders whose offers have been found technically, commercially and financially acceptable and whose goods have been TSEC approved/validated by the purchaser. The Purchaser reserves the right to counter offer price(s) against price(s) quoted by any bidder.
- (b) **Purchase Order for Year-1 Quantities will be placed first. P.O.s for Second Year and Third Year Quantities will be placed subsequently.**

25.0 PURCHASER'S RIGHT TO VARY QUANTITIES

- a) BSNL will have the right to increase or decrease up to 50% of the quantity of goods and services specified in the schedule of requirements without any change in the unit price or other terms and conditions at the time of award of contract. The additional quantities of goods and services contained in the running tender/contract can be ordered at the same rate or a rate negotiated (downwardly) with the existing vendors considering the reasonability of rates based on prevailing market conditions and the impact of reduction in duties and taxes etc. and supplies to be obtained within delivery period scheduled afresh.
- b) (b) In exceptional situation where the requirement is of an emergent nature and it is necessary to ensure continued supplies from the existing vendors, the purchaser reserves the right to place repeat order up to 100% of the quantities of goods and services contained in the running tender/contract within a period of twelve months from the earliest date of acceptance of APO at the same rate or a rate negotiated (downwardly) with the existing vendors considering the reasonability of rates based on prevailing market conditions and the impact of reduction in duties and taxes etc.

Exceptional situation and emergent nature should be spelt out clearly detailing the justification as well as benefits accrued out of it and loss incurred in case this provision is not invoked and approved by the authority competent to accord administrative and financial approval for the procurement calculated on the basis of total procurement i.e. initial and proposed add on quantity.

- c) **BSNL Board will have full power to accord administrative approval and financial concurrence to procure any equipment/material in any quantity by any means in the exigencies of services and interest of BSNL.**
- d) In case the vendors do not accept the above clause, action as provided for under clause 4.2 of section –III shall apply.

26.0 PURCHASER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds of purchaser's action.

27.0 ISSUE OF ADVANCE PURCHASE ORDER

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- 27.1 The issue of an Advance Purchase Order shall constitute the intention of the Purchaser to enter into contract with the bidder.
- 27.2 The bidder shall within 14 days of issue of the advance purchase order, give his acceptance along with performance security in conformity with section IX provided with the bid document.
- 27.3 ***Purchase Order will be issued subject to security clearance from DoT for the equipments to be ordered for which the selected bidder has to apply in quadruplicate in the prescribed proforma as per the DoT guidelines***
- 28.0 SIGNING OF CONTRACT**
- 28.1 The issue of Purchase order shall constitute the award of contract on the bidder.
- 28.2 Upon the successful bidder furnishing performance security pursuant to clause 27, the Purchaser shall discharge the bid security in pursuant to clause 12.
- 29.0 ANNULMENT OF AWARD**
- Failure of the successful bidder to comply with the requirement of clause 28 shall constitute sufficient ground for the annulment of the award and the forfeiture of the bid security in which event the Purchaser may make the award to any other bidder at the discretion of the purchaser or call for new bids.
- 30.0 QUALITY ASSURANCE REQUIREMENTS**
- The supplier shall have Quality Management System supported and evidenced by the following:
- A Quality Policy.
 - A management representative with authority and responsibility for fulfilling QA requirements and for interfacing with purchaser in the matters of Quality.
 - Procedure for controlling design/production engineering, materials, choice of components/vendors, manufacturing and packaging process for supplying quality products.
 - System of Inward Good Inspection.
 - System to calibrate and maintain required measuring and test equipment.
 - System for tracing the cause for non-conformance (traceability) and segregating product which don't conform to specifications.
 - Configuration management and change-control mechanism.
 - A quality plan for the product.
 - Periodical internal quality audits.
 - A 'Quality Manual' detailing the above Or infrastructure assessment certificate and TSEC Approval Certificate issued by "QA" shall be furnished.
- 31.0 While all the conditions specified in the Bid documents are critical and are to be complied, special attention of bidder is invited to the following clauses of the bid documents. Non-compliance of any one of which shall result in outright rejection of the bid.
- (i) **Clause 15.1 of Section II:** The bids will be recorded/ returned unopened if covers are not properly sealed with 'PERSONAL SEAL' of the bidder.
 - (ii) **Clauses 12.1, 12.3 & 13.1 of Section II:** The bids will be rejected at opening stage if Bid security is not submitted as per Clauses 12.1 & 12.3 and bid validity is less than the period prescribed in Clause 13.1 mentioned above.
 - (iii) **Clause 2 & 10 of Section II:** If the eligibility condition as per clause 2 of Section II is not met and/or documents prescribed to establish the eligibility as per Clause 10 of section II are not enclosed, the bids will be rejected without further evaluation.
 - (iv) **Clause 11.2 (c) of Section II:** If clause-by-clause compliance and deviation statements as prescribed are not given, the bid will be rejected at the stage of primary evaluation. **In case of no deviations, a statement to that effect must be given.**
 - (v) **Section III Commercial conditions, Section IV Special Conditions of Contract & Section VI Technical**

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Specifications: Compliance if given using ambiguous words like “Noted”, “Understood”, “Noted & Understood” shall not be accepted as complied. Mere “Complied” will also be not sufficient, reference to the enclosed documents showing compliances must be given.

- (vi) **Section VII Price Schedule:** Prices are not filled in as prescribed in price schedule.
- (vii) Section II clause 9.5 on discount which is reproduced below:
“Discount, if any, offered by the bidder shall not be considered unless specifically indicated in the price schedule. Bidders desiring to offer discount shall therefore modify their offer suitably while quoting and shall quote clearly net price taking all such factors like Discount, free supply etc. into account”.
- (viii) Before outright rejection of the Bid by Bid-opening team for non-compliance of any of the provisions mentioned in clause 31(i), 31(ii) of Section II, the bidder company is given an opportunity to explain their position. However if the person representing the company is not satisfied with the decision of the Bid opening team, he/they can submit the representation to the Bid opening team immediately but in no case after closing of the tender process with full justification quoting specifically the violation of tender condition if any.

Bid opening team will not return the bids submitted by the bidders on the date of tender opening even if it is liable for rejection and will preserve the bids in sealed cover as submitted by taking the signatures of some of the desirous representatives of the participating bidder/companies present on the occasion.

The in-charge of Bid opening team will mention the number of bids with the name of the company found unsuitable for further processing on the date of tender opening and number of representations received in Bid opening Minutes and if Bid opening team is satisfied with the argument of the bidder/company mentioned in their representation and feel that there is prima-facie fact for consideration, the in-charge of the bid opening team will submit the case for review to competent authority CGM in circles and Director (CFA) in corporate office as early as possible preferably on next working day and decision to this effect should be communicated to the bidder company within a week positively. Bids found liable for rejection and kept preserved on the date of tender opening will be returned to the bidders after issue of P.O. against the instant tender.

If the reviewing officer finds it fit to open the bid of the petitioner, this should be done by giving three (working) days notice to all the participating bidders to give opportunity to desirous participants to be present on the occasion.

- 32 .0 Purchaser reserves the right to disqualify the supplier for a suitable period who habitually failed to supply the equipment in time. Further, the suppliers whose equipment do not perform satisfactory in the field in accordance with the specifications may also be disqualified for a suitable period as decided by the purchaser.
- 33 .0 Purchaser reserves the right to blacklist a bidder for a suitable period in case he fails to honour his bid without sufficient grounds.
- 34 .0 The bidder should give a certificate that none of his/her near relative is working in the units as defined below where he is going to apply for the tender. In case of proprietorship firm certificate will be given by the proprietor. For partnership firm certificate will be given by all the partners and in case of limited company by all the Directors of the company excluding Government of India/Financial institution nominees and independent non-Official part time Directors appointed by Govt. of India or the Governor of the state and full time Directors of PSUs both state and central. Due to any breach of these conditions by the company or firm or any other person the tender will be cancelled and Bid Security will be forfeited at any stage whenever it is noticed and BSNL will not pay any damage 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 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) and daughter's husband (son in law), brother(s) and brother's wife, sister(s) and sister's husband (brother in law).



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

35. Verification of documents and certificates -

“The bidder will verify the genuineness and correctness of all documents and certificates, including experience/performance certificates, issued either by the bidder or any other firm/associate before submitting them in the bid. The onus of proving genuineness of the submitted documents would rest with the bidder.

As per requirement of the tender’s conditions, if any document/paper/certificate submitted by the participant bidder is found to be false/fabricated/tempered/ manipulated at any stage during bid evaluation or award of contract, then the bid security (EMBG)of the bidder would be forfeited and the bidder would be disqualified from the tender. Action would also be taken for banning of business dealing with the defaulting firm. In case contract has already awarded to the bidder, then PBG would be forfeited and the contract would be rescind/annulled and BSNL would be at liberty to procure the ordered goods and services from any other source at the risk and cost of the defaulting bidder. Action would also be taken for banning business dealing with the defaulting firm.

To obviate any possibility of doubt and dispute and maintain veracity of the documents/papers/certificates, the documents conforming to eligibility part will be submitted by the participant bidder in a separate cover fully stamped and signed by the authorized signatory alongwith EMBG (bid security) of requisite amount and will be opened at the time of tender opening. The documents/papers to be submitted in a separate cover will be explicitly mentioned in clause-2 (i) of Section-IV. These papers will be signed by the in charge of the tender opening team and the authorized representative of the bidder company and will be kept preserved alongwith the original bid and in case of any dispute this paper will be treated as authentic one”.



SECTION III**GENERAL (COMMERCIAL) CONDITIONS OF CONTRACT****1.0 APPLICATION**

The general condition shall apply in contracts made by the purchaser for the procurement of goods.

2.0 STANDARDS

The goods supplied under this contract shall conform to the standards prescribed in the Technical Specifications mentioned in section VI.

3.0 PATENT RIGHTS

The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the goods or any part thereof in Indian Telecom Network.

4.0 PERFORMANCE SECURITY

4.1 All suppliers (including small scale units who are registered with the National Small Scale Industries Corporation under Single point registration scheme) shall furnish performance security to the purchaser for an amount equal to 5% of the value of purchase order within **14 days** from the date of issue of Advance Purchase Order by the Purchaser.

4.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract.

4.3 The performance security Bond shall be in the form of Bank Guarantee issued by a scheduled Bank and in the form provided in 'Section IX' of this Bid Document.

4.4 The performance security Bond will be discharged by the Purchaser after completion of the supplier's performance obligations including any warranty obligations under the contract.

5.0 INSPECTION AND TESTS

5.1 The Purchaser or his representative shall have the right to inspect and test the goods as per prescribed test schedules for their conformity to the specifications. Where the Purchaser decides to conduct such tests on the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance like Testing instruments and other test gadgets including access to drawings and production data shall be furnished to the inspectors at no charge to the purchaser.

5.2 Should any inspected or tested goods fail to conform to the specifications the purchaser may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet Specification requirements free of cost to the purchaser.

5.3 Notwithstanding the pre-supply tests and inspections prescribed in clause 5.1 & 5.2 above, the equipment and accessories on receipt in the Purchaser's premises will also be tested during and after installation before "take over" and if any equipment or part thereof is found defective, the same shall be replaced free of all cost to the purchaser as laid down in clause 5.4 below.

5.4 If any equipment or any part thereof, before it is taken over under clause 5.5, is found defective or fails to fulfill the requirements of the contract, the inspector shall give the Supplier notice setting forth details of such defects or failure and the supplier shall make the defective equipment good, or alter the same to make it comply with the requirements of the contract forthwith and in any case within a period not exceeding three months of the initial report. These replacements shall be made by the supplier free of all charges at site. Should it fail to do so within this time, the purchaser reserves the discretion to reject and replace at the cost of the supplier the whole or any portion of equipment as the case may be, which is defective or fails to fulfill the requirements of the contract. The cost of any such replacement made by the

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purchaser shall be deducted from the amount payable to the supplier.

- 5.5 When the performance tests called for have been successfully carried out, the inspector / ultimate consignee will forthwith issue a Taking Over Certificate. The inspector /ultimate consignee shall not delay the issue of any “taking Over Certificate” contemplated by this clause on account of minor defects in the equipment which do not materially affect the commercial use thereof provided that the supplier shall undertake to make good the same in a time period not exceeding six months. The Taking Over Certificate shall be issued by the ultimate consignee within six weeks of successful completion of tests. In this case, BCPC (Bills Copy Payable Challan) shall be equivalent to “Taking Over Certificate”, issuance of which shall certify receipt of goods in safe and sound condition. However, they shall not discharge the supplier of their warranty obligation. BCPC in respect of last consignment against the purchase order will be equivalent to “Taking Over Certificate”.
- 5.6 Nothing in clause 5 shall in any way release the Supplier from any warranty or other obligations under this contract.

6.0 DELIVERY AND DOCUMENTS

- 6.1 Delivery of the goods and documents shall be made by the supplier in accordance with the terms specified by the purchaser in its schedule of requirements and special conditions of contracts, and the goods shall remain at the risk of the supplier until delivery has been completed. The delivery of the equipment shall be to the ultimate consignee as given in the purchase order.
- 6.2 The delivery of the goods and documents shall be completed as per clause 13 of section IVA. The detailed delivery schedule and installation & Commissioning schedule will be given in purchase order.
- 6.3 All Technical assistance for installation, commissioning and monitoring of the equipment shall be provided by the Supplier at no extra cost during laboratory evaluation, validation/ TSEC approval and field trial, if any.
- 6.4 The extension of delivery period against the purchase order, if any, should be granted subject to the condition that BSNL shall have the absolute right to revise the price(s) and also to levy penalty for the delayed supplies.
- 6.5 In case of imported equipments High Sea sales is permitted. Vendor shall bear all the cost of all logistics viz stocking, shifting to respective consignee sites etc., till the equipment is commissioned except custom duty. BSNL will pay the customs duty as per actual or as quoted in the bid whichever is minimum. Bidder should claim the net payment after adjusting the customs duty (Paid by BSNL) in his invoice.

7.0 TRAINING

- 7.1 The successful bidder shall provide training free of cost to BSNL / University officers in Installation, Operation, Testing, Maintenance of System and Software etc. The quality and content of the training shall be so designed that the BSNL / University officers get sufficiently exposed to all the aspects of installation, testing, provisioning, operations, in respect of the equipment. The training shall also cover necessary hardware and software architecture details. Detailed training material shall also be supplied by the selected bidder to enable BSNL to train more number of officers independently.
- 7.2 The bidder shall specify in his bid the number of trainees, quantum of proposed training and duration of the proposed training.
- 7.3 Conduct of training of the purchaser's personnel shall be at the suppliers' plant and/or on-site in assembly start-up operation, maintenance and/or repair of the supplied goods.

8.0 INCIDENTAL SERVICES

- 8.1 The supplier may be required to provide any or all of the following services:
- Performance or supervision of on-site assembly and/or start-up of the supplied Goods;
 - Furnishing of tools required for assembly and/or maintenance of supplied Goods;
 - Performance of supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties provided that this service shall not relieve the supplier of any warranty obligations under this contract.

9.0 SPARES

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- 9.1 The supplier shall be required to provide a list of the following material and notifications pertaining to spare parts manufactured or distributed by the supplier of spares including cost and quantity considered for arriving at the price of spares in sec. II, clause 9.
- (a) Such spare parts as the purchaser may elect to purchase from the supplier provided that such purchase shall not relieve the supplier of any warranty obligation under the contract.
- (b) In the event of termination of production of the spare parts, the supplier shall :
- i) give advance notification to the purchaser pending termination (not less than 2 years), in sufficient time to enable the purchaser to procure life time spare; and
- ii) Following such advance intimation of termination, furnish at no cost to the purchaser, the blue prints, drawings and specifications of spare parts, if and when requested.
- 9.2 Over a period of three years starting from the date of final acceptance, the supplier shall supply, at his own cost, all necessary spares which have not been included in the offer as part of the requirement. These spares should be supplied within a maximum period of 30 days from the notification by the purchaser of his need.

10.0 WARRANTY

- 10.1 The supplier shall warrant that the stores to be supplied shall be new and free from all defects and faults in materials used, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings. The supplier shall be responsible for any defect that may develop under the conditions provided by the contract and under proper use, arising from faulty material, design or workmanship such as corrosion of the equipment, inadequate quantity of material to meet equipment requirements, inadequate contact protection, deficiencies in circuit design and/or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the stores are faulty. This warranty shall survive inspection or payment for / and acceptance of goods, but shall expire (except in respect of complaints notified prior to such date) Twenty Four months after the stores have been taken over under clause 5.5 above.
- 10.2 If it becomes necessary for the Supplier to replace or renew any defective portion(s) of the equipment under this clause, the provisions of the clause 10.1 shall apply to the portion(s) of the equipment so replaced or renewed or until the end of the above mentioned period of Twenty Four months, whichever may be later. If any defect is not remedied by the supplier within a reasonable time, the Purchaser may proceed to get the defects remedied from other supplier etc., at the supplier's risk and expenses, but without prejudice to any other rights which the purchaser may have against the supplier in respect of such defects.
- 10.3 Replacement under warranty clause shall be made by the supplier free of all charges at site including freight, insurance and other incidental charges.

11.0 PAYMENT TERMS

- 11.1 Payment shall be made in Indian Rupees. Payment shall be made as per payment schedule given in Section IV PART-A. For claiming this payment the following documents are to be submitted to the paying authority.
- i) Invoice clearly indicating break up details of composite price i.e Basic, E.D., Sales Tax, any other Duties and Taxes, Freight /Packing Charges, Service Tax etc.
- ii) Delivery Challan
- iii) Supplier certificate for dispatch
- iv) Excise gate pass / invoice or equivalent document
- v) Inspection certificate of QA wherever applicable
- vi) Consignee receipt
- vii) The sea freight receipt as per the rates approved by the Ministry of Water and Surface Transport, if any
- viii) Proof of payment of octroi/entry tax etc., if any.
- ix) "If the supplier fails to furnish necessary supporting documents i.e. excise/customs invoices etc. in



respect of the Duties/Taxes which are Cenvatable, the amount pertaining to such Duties/Taxes will be deducted from the payment due to the firm.”

- 11.2 In those cases where supply of the equipments shortages/damages are intimated to the supplier in writing, the appropriate payment shall be released only after the cases are settled in accordance with the provision of the P.O.
- 11.3 (i) Form C will not be issued.
(ii) No payment will be made for goods rejected at the site on testing.
- 11.4 The bidder has to give the mandate for receiving the payment costing Rs.5 lacs and above electronically and the charges, if any, levied by bank has to be borne by the bidder/contractor/supplier. The bidder company are required to give the following information for this purpose :-
(i) Beneficiary Bank Name :
(ii) Beneficiary Branch Name :
(iii) IFSC Code of beneficiary Branch :
(iv) Beneficiary account No.
(v) Branch Serial No. (MICR No.) :

12.0 PRICES

- 12.1 (i) Prices charged by the supplier for goods delivered and services performed under the contract shall not be higher than the prices quoted by the Supplier in his Bid.
- (ii) (a) Prices will be fixed at the time of issue of purchase order as per taxes and statutory duties applicable at that time.
(b) In case of reduction of taxes and other statutory duties during the scheduled delivery period, purchaser shall take the benefit of decrease in these taxes/duties for the supplies made from the date of enactment of revised duties/taxes.
(c) In case of increase in duties/taxes during the scheduled delivery period, the purchaser shall revise the prices as per new duties/taxes for the supplies, to be made during the remaining delivery period as per terms and conditions of the purchase order.
- (iii) Any increase in taxes and other statutory duties/levies after the expiry of the delivery date shall be to the supplier's account. However, benefit of any decrease in these taxes/duties shall be passed on to the Purchaser by the supplier.

(iv) **Prices offered to other than L1 bidder shall not exceed the evaluated L1 price.**

13.0 CHANGES IN PURCHASE ORDERS

- 13.1 The purchaser may, at any time, by a written order given to a supplier, make changes within the general scope of the contract in any one or more of the following:
- (a) drawings, designs or specifications, where Goods to be supplied under the contract are to be specifically manufactured for the Purchaser;
- (b) the method of transportation or packing;
- (c) the place of delivery; or
- (d) the services to be provided by the supplier.
- 13.2 If any such change causes an increase or decrease in the cost of, or the time required for the execution of the contract an equitable adjustment shall be made in the contract price or delivery schedule, or both, and the contract shall accordingly be amended. Any proposal by the supplier for adjustment under this clause must be made within thirty days from the date of the receipt of the change in order.

14.0 SUBCONTRACTS

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The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this contract if not already specified in his bid. Such notification, in his original bid or later shall not relieve the supplier from any liability or obligation under the Contract.

15.0 DELAYS IN THE SUPPLIER'S PERFORMANCE

15.1 Delivery of the Goods and performance of the services shall be made by the Supplier in accordance with the time schedule specified by the purchaser in its purchase order. In case the supply is not completed in the stipulated delivery period, as indicated in the Purchase Order, purchaser reserves the right either to short close /cancel this purchase order and/or recover liquidated damage charges. The cancellation/short closing of the order shall be at the risk and responsibility of the supplier and purchaser reserves the right to purchase balance unsupplied item at the risk and cost of the defaulting vendors.

15.2 Delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to any or all of the following sanctions: forfeiture of its performance security, imposition of liquidated damages and/or termination of the contract for default.

15.3 (i) If at any time during the performance of the contract, the supplier encounters condition impeding timely delivery of the goods and performance of service, the supplier shall promptly notify to the Purchaser in writing the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at its discretion extend the period for performance of the contract (by not more than 20 weeks or as per provisions of clause 16.2, Section-III) as per provision given below :

(ii) The vendor has to submit their request for extension along with the undertaking as per clause 24 Section-III (Fall Clause) and a copy of QA inspection certificate at least two weeks before the expiry of delivery period. The decision regarding extension shall be communicated within two weeks of the receipt of request.

(iii) In case extension is being granted beyond 20 weeks then the vendor shall submit additional BG while seeking extension. For peace meal items the amount of additional BG shall be 5% of the value of balance quantity of items to be supplied for which extension in delivery period has been sought. In case of infrastructure/turnkey projects other than as stated above, 1% of the total project value shall be the value for additional BG. The additional BG shall be valid for six months beyond extension of delivery period sought and shall be discharged after the full ordered quantity has been supplied to the ultimate consignee within the last extended delivery period on submission of inspection certificate from QA and consignee receipt without prejudice to the other remedies available to the purchaser.

(iv) If the vendor fails to deliver the full ordered quantity even during extended delivery period then the PO shall be short-closed and the Performance Bank Guarantee as well as additional BG shall be encashed/ forfeited.

Format of (i) letters conveying conditions of DP extension and (ii) DP extension letter are in appendix.

16.0 LIQUIDATED DAMAGES

16.1 The date of delivery of the stores stipulated in the acceptance of the tender should be deemed to be the essence of the contract and delivery must be completed not later than the dates specified therein. Extension will not be given except in exceptional circumstances. Should, however, deliveries be made after expiry of the contracted delivery period, without prior concurrence of the purchaser and be accepted by the consignee, such delivery will not deprive the purchaser of his right to recover liquidated damage under clause 16.2 below. However, when supply is made within 21 days of the contracted original delivery period, the consignee may accept the stores and in such cases the provision of clause 16.2 will not apply.

16.2 (i) Should the supplier fails to deliver the store or any consignment thereof within the period prescribed and agreed for delivery, the purchaser, without prejudice to other remedies available to the purchaser shall be entitled to recover, as agreed liquidated damages for breach of contract, a sum equivalent to 0.5% of the value of the delayed supply and/or undelivered material/ supply for each week of delay or part thereof for a period up to 10 (TEN) weeks, and thereafter at the rate of 0.7% of the value of the delayed supply and/ or undelivered material/ supply for each week of delay or part thereof for another TEN weeks of delay.

(ii) DP extension beyond 20 weeks would not be generally allowed. The extension beyond 20 weeks may be decided in most exceptional circumstances on case to case basis, by the CGM concerned in case of tenders floated by Circles and



by the Functional Director concerned in case tenders floated by Corporate Office, stating reasons and justifications for grant of extension of delivery period beyond 20 weeks.

(iii) In the case of package supply/turnkey projects when the delayed portion of the supply materially hampers installation and commissioning of the systems, LD charges shall be levied as above on the total value of the concerned package of the Purchase Order. ***This tender is a package supply tender. The package shall be treated as the equipments meant for one university.***

(iv) Quantum of liquidated damages assessed and levied by the purchaser and decision of the purchaser thereon shall be final and binding on the supplier, further the same shall not be challenged by the supplier either before Arbitration tribunal or before the court. The same shall stand specifically excluded from the purview of the arbitration clause, as such shall not be referable to arbitration. However, when supply is made to the ultimate consignee within 21 days of QA clearance in the extended delivery period and the goods were dispatched within this delivery period, the consignee may accept the stores and in such cases the LD shall be levied up to the date of dispatch after QA clearance only.

(v) The total value of the liquidated damages as per above sub-clauses shall be limited to a maximum of 12% (Twelve percent) i.e. LD shall be levied up to 20 weeks only as per provision at para (i).

LD for the services like Installation and commissioning shall also be applied on the same terms and conditions as stated above on the cost of installation and commissioning rates evaluated and approved.

17.0 FORCE MAJEURE

17.1 If, at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts or act of God (hereinafter referred to as events) provided notice of happenings of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such an event come to an end or cease to exist, and the decision of the Purchaser as to whether the deliveries have been so resumed or not shall be final and conclusive. Further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reasons of any such event for a period exceeding 60 days, either party may, at its option, terminate the contract.

17.2 Provided, also that if the contract is terminated under this clause, the Purchaser shall be at liberty to take over from the Supplier at a price to be fixed by the purchaser, which shall be final, all unused, undamaged and acceptable materials, bought out components and stores in course of manufacture which may be in possession of the Supplier at the time of such termination or such portion thereof as the purchaser may deem fit, except such materials, bought out components and stores as the Supplier may with the concurrence of the purchaser elect to retain.

18.0 TERMINATION FOR DEFAULT

18.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the supplier, terminate this contract in whole or in part.

- (a) if the supplier fails to deliver any or all of the goods within the time period(s) specified in the contract, or any extension thereof granted by the purchaser pursuant to clause 15;
- (b) if the supplier fails to perform any other obligation(s) under the Contract; and
- (c) if the supplier, in either of the above circumstances, does not remedy his failure within a period of 15 days (or such longer period as the purchaser may authorize in writing) after receipt of the default notice from the purchaser.

18.2 In the event the purchaser terminates the contract in whole or in part pursuant to para 18.1 the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the supplier shall be liable to the Purchaser for any excess cost for such similar goods. However the supplier shall continue the performance of the contract to the extent not terminated.

19.0 TERMINATION FOR INSOLVENCY

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, without compensation to the supplier. If the supplier becomes bankrupt or otherwise insolvent as declared by the competent court provided that

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such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

20.0 ARBITRATION

- 20.1 In the event of any question, dispute or difference arising under this agreement or in connection there-with (except as to the matters, the decision to which is specifically provided under this agreement), the same shall be referred to the sole arbitration of the CGM, STP, BSNL or in case his designation is changed or his office is abolished, then in such cases to the sole arbitration of the officer for the time being entrusted (whether in addition to his own duties or otherwise) with the functions of the CGM, STP, BSNL or by whatever designation such an officer may be called (hereinafter referred to as the said officer), and if the CGM, STP, BSNL or the said officer is unable or unwilling to act as such, then to the sole arbitration of some other person appointed by the CGM, STP, BSNL or the said officer. The agreement to appoint an arbitrator will be in accordance with the Arbitration and Conciliation Act 1996. There will be no objection to any such appointment on the ground that the arbitrator is a Government Servant or that he has to deal with the matter to which the agreement relates or that in the course of his duties as a Government Servant he has expressed his views on all or any of the matters in dispute. The award of the arbitrator shall be final and binding on both the parties to the agreement. In the event of such an arbitrator to whom the matter is originally referred, being transferred or vacating his office or being unable to act for any reason whatsoever, the CGM, STP, BSNL or the said officer shall appoint another person to act as an arbitrator in accordance with terms of the agreement and the person so appointed shall be entitled to proceed from the stage at which it was left out by his predecessors.
- 20.2 The arbitrator may from time to time with the consent of both the parties enlarge the time frame for making and publishing the award. Subject to the aforesaid, Arbitration and Conciliation Act, 1996 and the rules made there under, any modification thereof for the time being in force shall be deemed to apply to the arbitration proceeding under this clause.
- 20.3 The venue of the arbitration proceeding shall be the office of the O/o CGM, STP, BSNL, Chennai-28 or such other places as the arbitrator may decide.

21.0 SET OFF

Any sum of money due and payable to the supplier (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 supplier with the Purchaser or BSNL or such other person(s) contracting through the BSNL.

- 22.0 The bidders, who are given Purchase Orders, must give the details of the supplies made against all the Purchase Orders every month on the first working day of the following month to AGM (MM), O/o CGM,STP, Chennai-28 and the concerned Planning Branches of BSNL (Corporate Office).
- 23.0 The bidder should furnish the name of his collaborator (if applicable), brand name, model no. and type of the products 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.

24.0 FALL CLAUSE

- 24.1 The prices once fixed will remain valid during the scheduled delivery period except for the provisions in clause 12.1 of Section III. Further, if at any time during the contract
- a) It comes to the notice of purchaser regarding reduction of price for the same or similar equipment/ service;
And /or
- b) The prices received in a new tender for the same or similar equipment/ service are less than the prices chargeable under the contract. The purchaser, for the purpose of delivery period extension, if any, will determine and intimate the new price, taking into account various related aspects such as quantity, geographical location etc., and the date of its effect for the balance quantity/ service to the vendor. In case the vendor does not accept the new price to be made applicable during the extended delivery period and the date of its effect, the purchaser shall have the right to terminate the contract without accepting any further supplies. This termination of the contract shall be at the risk and responsibility of the supplier and the purchaser reserves the right to purchase the balance unsupplied quantity/ service

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at the risk and cost of the defaulting vendor besides considering the forfeiture of his performance security.

24.2 (a) The vendor while applying for extension of time for delivery of equipment/services, if any, shall have to provide an undertaking as "We have not reduced the sale price, and/ or offered to sell the same or similar equipment/ service to any person/organization including Department of central/state Government or any central/state PSU at a price lower than the price chargeable under the contract for scheduled delivery period."

(b) In case under taking as in Clause 24.2(a) is not applicable, the vendor will give the details of prices, the name(s) of purchaser, quantity etc. to the purchaser, while applying extension of delivery period.

25.0 Court Jurisdiction:

(i) Any dispute arising out of the tender/bid document/evaluation of bids/issue of APO shall be subject to jurisdiction of the competent court at the place from where the NIT/tender has been issued.

(ii) Where a contractor has not agreed to arbitration, the dispute/claims arising out of the Contract/PO entered with him shall be subject to the jurisdiction of the Competent Court at the place from where Contract/PO has been issued. Accordingly, a stipulation shall be made in the contract as under:

'This Contract/PO is subject to jurisdiction of Court at Chennai only'



APPENDIX-A

Model Amendment Letter Intimating Conditions for Extension of Delivery Period

– **Registered Acknowledgement Due**

Address of the purchaser

To
 M/s

Sub : This office contract no..... dated placed on you for supply of

Ref : Your letter no..... dated

You have failed to deliver the goods/ entire quantity of the goods/ execution/ installation/ commissioning of the entire project within the contract delivery period/ delivery period as agreed schedule or last extended up to _____. In your above referred letter, you have asked for extension/ further extension of time for delivery/ execution/ installation/ commissioning. In view of the circumstances stated in your above referred letter, the time of delivery can be extended from _____ (original/ last delivery period) to _____ (presently agreed delivery period) subject to your unconditional acceptance of the following terms and conditions:

- ii) That, liquidated damages shall be levied in accordance with agreed clause 16.2 Section III of terms and conditions of the tender/ PO.
- iii) That, notwithstanding any stipulation in the contract for increase in price on any ground, no such increase, whatsoever, which takes place after zzz shall be admissible on such of the said goods as are delivered after the said date as per clause 12 Section III.
- iv) That, the prices during this extended delivery period shall be provisional and shall be governed as per agreed clauses 12 and 24 of Section III and shall be finalized in accordance with the current PO price or the current PO price with latest budget/ duty impact or the prices in the new tender (T.E. no.) from the date of its opening, on whichever is lower basis.
- v) An additional BG of Rs. _____ in accordance with clause 15.3, Section III of the contract with validity upto _____.
- vi) An undertaking as required vide clause 24, Section III.
 Please intimate your unconditional acceptance of this letter alongwith the additional BG within ten days of the issue of this letter failing which the contract will be cancelled at your risk and expense without any further reference to you. This letter shall form part and parcel of the agreement/ contract/ APO/ PO and all other terms & conditions of the contract remain unaltered.

Yours faithfully,
 (.....)
 for and on behalf of.....

zzz Original delivery date or the last extended/ re-fixed delivery period (as the case may be)
 NB : The entries which are not applicable for the case under consideration are to be deleted.



APPENDIX-B

Model Amendment Letter for Extension of Delivery Period

– Registered Acknowledgement Due

Address of the purchaser

M/s
.....

Sub : This office contract no..... dated placed on you for supply of

- Ref : 1. Your letter no..... dated requesting DP extension
- 2. This office letter no. dated intimating conditions for DP extension
- 3. Your letter no..... dated accepting the conditions for DP extension

You have failed to deliver the goods/ entire quantity of the goods/ execution/ installation/ commissioning of the entire project within the contract delivery period/ delivery period as agreed schedule or last extended up to _____. In your above letter under reference (1), you have asked for extension/ further extension of time for delivery/ execution/ installation/ commissioning. The terms and conditions for extension of delivery period were conveyed to you vide this office letter under reference (2). In view of the circumstances stated in your above referred letter, and upon your unconditional acceptance of the terms and conditions of this extension vide your letter under reference (3), the time of delivery is hereby extended from _____ (last delivery period) to _____ (presently agreed delivery period) on the terms and conditions in letter under reference (2) above and agreed by you vide letter under reference (3) i.e.:

- 1 Liquidated damages shall be levied in accordance with agreed clause 16.2 Section III of terms and conditions of the tender/ PO.
- 2 Notwithstanding any stipulation in the contract for increase in price on any ground, no such increase, whatsoever, which takes place after zzz shall be admissible on such of the said goods as are delivered after the said date as per clause 12 Section III.
- 3 The prices during this extended delivery period shall be provisional and shall be governed as per clauses 12 and 24 of Section III and shall be finalized in accordance with current PO price or the current PO price with latest budget/ duty impact or the prices in the new tender (T.E. no.) from the date of its opening, on whichever is lower basis.

The letters under reference above and this letter shall form part and parcel of agreement/ contract/ APO/ PO and all other terms & conditions of the contract remain unaltered.

Yours faithfully,
(.....)
for and on behalf of.....

Copy to :
.....
.....
.....

(All concerned)
zzz Original delivery date or the last unconditionally re-fixed delivery date (as the case may be)
NB : The entries which are not applicable for the case under consideration are to be deleted.



SECTION IV A

ELIGIBILITY AND SPECIAL TERMS & CONDITIONS

- 1 **The special terms and conditions of the contract** shall supplement the 'Instructions to the Bidders' as contained in Section II & "General Conditions of the Contract" as contained in Section III and wherever there is a conflict, the provisions herein shall prevail over those in Section II and Section III.
- 2 **General conditions:**
- 2.1 The bank guarantee for bid security or NSIC certificate for claiming exemption from submission of bank guarantee against bid security, as prescribed in clauses 12.1 & 12.3 of Section II of the bid document shall be submitted along with the bids in a separate cover. The bank guarantee so submitted shall be as per the format given in Section VIII on prescribed judicial paper with stamps of proper value and should contain full address of the issuing branch of the bank with its telephone number and FAX number. This cover should be super scribed as "**BID SECURITY FOR Tender Enquiry No----- issued on-----**". This cover should be kept inside the technical bid cover.
- 2.2 In case where the document of bid security are not submitted in the manner prescribed under clause 4.2.1 above, cover containing the technical and Commercial offers **SHALL NOT BE OPENED AND THE BID SHALL BE REJECTED AND RETURNED TO THE BIDDER UNOPENED.**
- 2.3 The small scale industries registered with National Small Scale Industries Corporation(NSIC) for the tendered item under single point registration scheme and desirous of claiming concessions available to such units inclusive of bid security should submit their latest NSIC certificates and documents in respect of their monetary limit and financial capability **duly certified by NSIC.**
- 3 **ELIGIBILITY CONDITIONS:**
- 3.1 **The bidder company shall be an IT/Networking/system integrator company registered and incorporated in India under the Companies Act, 1956 and shall have been in existence for at least 5 years at the time of bid opening**
- 3.2 a. The bidder shall have a minimum turnover of INR 200 Crores in every year for last two years (i.e. 2008-09 & 2009-10). The bidder has to submit the Annual Report/ audited accounts certified by Auditor for the last two years to establish the turnover. The bidder and other OEM partners (if any) shall submit a letter from their company indicating the details of authorized signatory for the company.
- b. The bidder shall submit documentary proof that he has made profits in the last two financial years (i.e. 2008-09 & 2009-10). I) A Certificate from the auditors of the company duly notarized should be submitted in respect of financial capability. li) Certificate from the banker regarding the financial capacity to the extent of Rs. 200 Crores to execute this tender
- 3.3 **Telecom service providers in India are not allowed to participate in the tender.**
- 3.4 Experience:
- 3.4.1 The bidder should have experience of supply, installation, integration, testing, commissioning and successful completion of at least 3 projects of minimum 100 LAN nodes each and shall be working satisfactorily on the date of NIT. The bidder shall have an experience of executing at least one turnkey project.
- 3.4.2 **The latest certificate from the customers in support of 3.4.1 shall include (1) Name of the bidder who executed the projects/LAN networks (2) Details of supply, installation, integration and successful implementation (3) Number of LAN Nodes (4) Date of Commissioning of the network (5) Satisfactory performance of the projects/networks and (6) Certificate from the customer that the bidder had executed their project on turn key basis (with details).**
- 3.4.3 The bidder or his OEM should have supplied a minimum of **50 Routers, 50 L-3 switches, 200 Edge Switches of the same Model / series** to any Network and a certificate given by the purchasers shall be enclosed along with the bid.
- 3.4.4 The bidder/OEM shall supply field performance **certificate/ verifiable references (i.e. name of contact persons, Email, tel. No. etc.)** from the above purchasers in order to enable BSNL to assess the provenness of the system offered.
- 3.5 General Requirements:
- 3.5.1 The bidder shall provide the list of the technology partner and hardware/ software solutions proposed in the Bid. Only one combination for the whole set of equipment shall be quoted. Alternate technology options within the bid are not acceptable & such bids shall be rejected. The bidder shall furnish signed letters from all the partners stating their participation in the said tender.

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- 3.5.2 The front bidder shall submit an irrevocable undertaking duly signed by it and its technology / consortium partner stating that both of them i.e the front bidder and its technology / consortium partners shall be liable for due performance of the contract jointly and severally, failing which both of them shall be liable to be barred from having any business dealing with BSNL for a period of 3 years.
- 3.5.3 The bidder shall submit back-to-back agreement with each of the partners for routers, Switches & firewall separately, to ensure that respective product support for implementation, operations, maintenance, spares and upgrades are available for a minimum period of 5 years excluding the period of implementation from the date of commissioning the product/service.
- 3.5.4 An OEM may either bid himself or through a single authorized partner. If more than one bid is received from a technology partner (OEM), then all such bids shall be rejected. Here the OEM referred is the OEM of the main technology blocks namely Routers, Firewall & L-3 Switches. A certificate for the same shall be furnished from the OEM.
- 3.6 The Bidder must have one support centre with test and repair facility in each state & UT with network certified engineers on its rolls. The bidder shall have to locate one engineer per university for facility management
- 3.7 **Quality:** The Hardware equipment proposed to be offered in this project shall have been manufactured in accordance with ISO 9001:2000 or equivalent. The Bidder should accordingly submit a copy of certificate to the effect.

4 Other conditions :

- 4.1 Bidder should propose latest existing equipment/ solutions/ technologies, at the time of bid, that have a clear development roadmap for the next 5 years.
- 4.2 The Bidder should have a pan India presence. Bidder should have at least four support locations, one in each zone across India to provide direct support to BSNL and the Universities covered under this project. Bidder has to provide list of permanent offices across the country for the same. The OEM of active components shall be directly present in India with their own office. The OEM should have their own agents/ spares depots in India to provide faster turnaround time for replacement of faulty parts.
- 4.3 The equipment/software vendor shall commit full professional services support and resources (if required) for the successful completion of the project within the time schedules. A document to the above effect signed by the original vendor(s) shall be submitted by the bidder along with the bid inclusive of the following:
- (i) Confirmation that the Product quoted are not end of life products.
- (ii) Undertake that the support including spares, patches for the quoted products shall be available for the complete duration of the project or 5 years whichever is higher from the date submission of bid.
- 4.4 The bidders should clearly indicate the technology for which the offer has been made. If it is a case of transfer of technology, the details such as name of technology, name of company etc. should be given and the copy of memorandum of understanding for transfer of technology and RBI clearance if applicable should be enclosed.
- 4.5 The Bidder/OEM shall have atleast four regional test & repair centre or faulty parts replacement facility in India, one in each zone.
- 4.6 This facility shall have to maintain spares for all components being offered and shall be offered for minimum period of 5 years from the date the warranty starts.
- 4.7 The Bidder must have on its rolls certified network Engineers. Engineer's details with their contact information, educational qualification, experience details along with the project they have handled and their association with the organization must be furnished.
- 4.8 If at any point of time it is found that the document(s) submitted by the bidder are untrue, the bid shall be rejected and the bid security will be forfeited.

5 DATE OF OPENING OF THE BIDS:

If the date fixed for opening of bids is subsequently declared as a holiday by the Government of India, the revised schedule shall be notified. However, in absence of such notification, the bids shall be opened on next working day, time and venue remaining unaltered.

6 CLARIFICATION OF THE BID DOCUMENTS:

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The bidders may seek clarifications regarding the Bid Documents, from purchaser, upto 16.00 hrs of 17.01.2011. Purchaser shall respond the queries in writing to any request for the clarifications.

7 SUBMISSION OF BID FOR THE PROJECT

The bids have to be submitted as per Clause 15 of Section-II of the tender document.

8 PAYMENT TERMS

8.1 Payment shall be made in Indian Rupees only. The schedule of payment shall be as follows excluding AMC:

8.2 40% of the equipment cost on supply of, all equipment University wise.

8.3 20% of the equipment cost on successful validation of all equipments.

8.4 20% of the equipment cost after Installation, Commissioning & A/T of all the equipment at all the sites designated by BSNL. The payment shall be made universitywise on production of commissioning report/ AT certificate issued by Inspection circle.

8.5 20% of the equipment cost after one year of successful Installation/ commissioning, subject to satisfactory operation.

8.6 100% of Installation and Commissioning charges will be paid universitywise on successful commissioning of the equipments universitywise. For Trenching & PLB pipe laying and leading into the room charges 100% shall be paid for 100cm depth of the trench measured from the top of the PLB duct. If the depth is less than 100cm proportionate payment shall be made. To claim the Trenching & PLB pipe laying and leading into the room charges copy of the measurement book, offset diagrams are to be submitted

9 FUNCTIONAL REQUIREMENTS & EQUIPMENT SPECIFICATIONS

9.1 The Functional and technical requirements to be fulfilled with by the Bidders, the services required, requirement of the equipment to be supplied etc. is detailed in Section IVB titled as “**Functional and Technical Requirements of NME LAN Project**”. The Bidder shall comply with these requirements.

9.2 All the equipment to be supplied shall conform to relevant latest specifications as mentioned in the tender under Section VI and elsewhere.

9.3 Bidders are required to give clause-by clause compliance to Functional and Technical Requirements, mentioned in the tender TENDER, **Annexure-III** (Facility Management) and **Annexure-IV** (AMC) of this document **along with reference to documentary support, giving the page and clause no. of the document**. The Deviation and NIL Deviation statements shall be signed jointly by the relevant OEM (authorized signatory/country manager) and the bidder.

9.4 The bidders shall indicate the space, Power and Air-conditioning and any other infrastructure requirement to be provided at each site for entire equipment along with the bid.

9.5 **The Technical specifications:** Bidder shall submit a statement of deviation with respect to special terms and conditions of this document. In case there is no deviation a NIL deviation statement should be submitted.

9.6 All the features, for which support has been asked for in the tender document, shall be provided by the bidder.

9.7 Bidder shall quote for licenses required for enabling all the features asked for in this tender document. Price for the licenses shall be included in the Price Schedule. BSNL will be at liberty to purchase the licenses (particularly for various functionalities in security equipment) as per the requirement.

9.8 Rack layout of the entire solution for typical configuration as envisaged in the tender shall be submitted. All the major sub-assemblies of the equipment shall be indicated.

10 INSTRUCTIONS & BID PROCESS

10.1 The implementation of “National Mission for Education” by BSNL involves the following.

a) Setting up LAN network in Universities

Year	No. of Universities	No. of Nodes	Total Nodes
Year 1	100	400	40,000
Year 2	150	400	60,000

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Year 3	150	400	60,000
Total	400	400	1,60,000

b) Facility management of LAN network of universities

Year	No. of Universities	No. of Nodes / university
Year 2	100	400
Year 3	250	400
Year 4-6	400	400
Year 7	300	400
Year 8	150	400

11 SCOPE OF THE PROJECT UNDER THIS TENDER ENQUIRY

11.1 **University Campus Wide LAN Network:** The scope of the work under this project for which the tender enquiry is invited hereunder includes site survey, network design for campus Wide LAN in each University, equipment supply and delivery at site, installation, network configuration, commissioning, acceptance testing, training, warranty and facility management.

11.2 The project aims at providing LAN in around 400 universities.

11.3 The numbers of universities as well as the list given are indicative and tentative. BSNL reserves the right to change the number of universities from -50% to +50% i.e. 200 to 600.

11.4 Moreover the LAN components under the schedule of requirements are also subjected to variation based on the actual requirement of the university.

11.5 SOLUTION OFFERED AGAINST THE TENDER

11.6 Bidder shall submit the un-priced bill of material.

11.7 Bidder shall describe the network solution in detail and link the same with the un-priced bill of material.

11.8 Bidder shall describe in detail how different components of the solution offered will be integrated.

11.9 Bidder shall also link the solution with detailed description about all the hardware and software components of the solution.

11.10 Bidder shall describe each phase of project implementation in detail along with all the works and activities which shall be performed by the bidder during the different phases of the turnkey implementation such as:

- a. Planning/Designing
- b. Analysis
- c. Engineering
- d. Supply
- e. Training
- f. Installation/Deployment
- g. Integration
- h. Customization
- i. Acceptance Testing
- j. Commissioning

11.11 Bidder shall describe the deliverables of each phase and provide details of the documents, which shall be provided to BSNL as part of the deliverables.

11.12 Bidders may be invited to make a detailed presentation on the above aspects.

12 TENDER EVALUATION:

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- 12.1 All clauses indicated herein (**Clause 11, Section IV A** Tender Evaluation) will over-ride all other evaluation reference available in any other part of the tender document. The tender shall be evaluated package wise as per the quotes from the bidders for various equipments/materials/services as per the criterion given below:
- 12.2 The tender shall be evaluated including all the items in price schedule of Phase I, II & III (Schedule VII parts I & II) (Ref: Section V of the bid document) including installation and commissioning charges, Facility management Charges, AMC, optional items as per Schedule V & any other item quoted by the bidder for successful commissioning and Maintenance of the Network. The cost of Optional items shall be included for evaluation of the Tender, but BSNL reserves the right to determine the quantity of the optional items to be procured.
- 12.3 Though the rates approved are package wise, BSNL reserves the right to place order for individual equipments/items as per its requirement in addition to the quantity indicated in the SOR at the approved rates during the currency of the tender.
- 12.4 For such items which are to be included in addition to what has been mentioned in the SOR, it is the responsibility of bidder to indicate the quantities to be ordered for the project execution and it shall also form part of the evaluation of total package. If the bidder indicates quantities of any of the item as zero, such items are to be supplied free of cost irrespective of quote being available and the quantity of such items to be decided by BSNL as per network design.
- 12.5 The quoted price of Phase II shall be discounted for one year @ 12% per annum for evaluation. The quoted price of Phase III shall be discounted for two years @ 12% per annum for evaluation.
- 12.6 Cost of AMC for the period is calculated to the present value at a discounted rate of 12% per annum. The NPV of AMC, for evaluation purpose, shall be calculated as indicated below.

NPV for Year-1 quantity	$A_1/(1+r/100)^3 + A_2/(1+r/100)^4 + A_3/(1+r/100)^5$
	Here A_1, A_2, A_3 , are the AMC amounts for 3 years for Year-subsequent to the two year of warranty and "r" = 12
NPV for Year-2 quantity	$A_4/(1+r/100)^4 + A_5/(1+r/100)^5 + A_6/(1+r/100)^6$
	Here A_4, A_5, A_6 are the AMC amounts for 3 years for Year-subsequent to the two year of warranty and "r" = 12
NPV for Year-3 quantity	$A_7/(1+r/100)^5 + A_8/(1+r/100)^6 + A_9/(1+r/100)^7$
	Here A_7, A_8, A_9 are the AMC amounts for 3 years for Year-subsequent to the two year of warranty and "r" = 12

- 12.7 Cost of Facility Management Services [FMS] for the period is calculated to the present value at a discounted rate of 12% per annum. The NPV of FMS, for evaluation purpose, shall be calculated as indicated below.

NPV for Year-1 quantity	$F_1/(1+r/100) + F_2/(1+r/100)^2 + F_3/(1+r/100)^3 + F_4/(1+r/100)^4 + F_5/(1+r/100)^5$
	Here F_1, F_2, F_3, F_4, F_5 are the FMS amounts for 5 years and "r" = 12
NPV for Year-2 quantity	$F_6/(1+r/100)^2 + F_7/(1+r/100)^3 + F_8/(1+r/100)^4 + F_9/(1+r/100)^5 + F_{10}/(1+r/100)^6$
	Here $F_6, F_7, F_8, F_9, F_{10}$ are the FMS amounts for 5 years and "r" = 12
NPV for Year- 3 quantity	$F_{11}/(1+r/100)^3 + F_{12}/(1+r/100)^4 + F_{13}/(1+r/100)^5 + F_{14}/(1+r/100)^6 + F_{15}/(1+r/100)^7$
	Here $F_{11}, F_{12}, F_{13}, F_{14}, F_{15}$ are the FMS amounts for 5 years and "r" = 12

- 12.8 The minimum yearly AMC value which shall be taken for Evaluation purpose shall be 2% of the total item cost of main and optional items of each phase, but excluding Installation & Commissioning, Facility management Services Charges. However AMC shall be paid as per the quote submitted by the bidder.
- 12.9 The minimum yearly FMS value which shall be taken for Evaluation purpose shall be 5% of the total item cost of main and optional items of each phase, but excluding Installation & Commissioning, AMC Charges.
- 12.10 Tender shall be evaluated as per BSNL's MM cell guidelines. The loading of the bid shall be done as per BSNL's MM guidelines. These guidelines shall be taken as final in case of any conflict in evaluation at any stage.

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- 12.11 In case any item is not quoted by a Bidder in some place, the bid shall be loaded by the highest price quoted in its own bid else where for the same item. In case the price is not available in its own bid then the loaded price shall be the highest price quoted by any of the bidders for that item in the respective package of the tender. However, the loaded item shall be supplied free of cost by the bidder.
- 12.12 In case quantity of any item is under specified by a Bidder then the bid shall be proportionately loaded/ based on the quoted price for evaluation purpose. However, the additional quantity shall have to be supplied by the bidder free of cost.
- 12.13 For bid evaluation purpose, the total AMC cost shall be arrived at by accounting for the cost of loaded items on pro-rata basis. However, the AMC cost shall not be paid for all items supplied free of cost on account of the loading. The same principle shall be applied for the cost towards Facility management services and all other items.
- 12.14 Only Original Bid shall be considered for all evaluation purposes.
- 12.15 The bidder shall quote the unit cost of all the items required for installation including cable, distribution board/equipment/interface, LAN wirings & accessories etc along with anticipated quantity.
- 12.16 The installation cost of each of the major components of the package like Routers, Servers etc may be individually given so as to have flexibility for BSNL.
- 13 SOFTWARE**
- 13.1 Software version of the equipment being supplied shall be latest & must be indicated.
- 13.2 Bidder shall describe all the modules and sub modules of all the software in brief.
- 13.3 All the latest Software Updates, Upgrades and /or Patches shall be implemented at no extra cost to the Purchaser along with associated hardware and memory upgrade necessary for maintaining the software, at each site for the entire period of Warranty and AMC by selected Bidders. Acceptance Testing of the system shall got be done by the Franchisee through the authority designated by BSNL / concerned University for all functions of all systems after the implementation of Software Updates, Upgrades and Patches in each system.
- 13.4 Certified and licensed copies of the application software required for each of the sites including consoles & remote terminals as applicable with back up copy shall be supplied. All software quoted as part of solution shall be licensed for unlimited period.
- 13.5 For the Third party applications bidder should have direct teaming arrangement with the original software supplier for maintenance / upgrade to meet the obligations under this tender at his own cost. **They should submit the teaming agreement along with the technical bid documents**
- 13.6 A certificate to the effect with respect to the clauses 12.1 to 12.5 may be submitted by the bidder.
- 14 SECURITY CLEARANCE FOR PROCUREMENT:**
- 14.1 BSNL shall take all necessary security clearance for the LAN Switches and Associated equipment before placement of Purchase Order as per DOT/ Govt. of India instructions. The proforma for security clearance for equipment /software as per **Annexure-IX** (as per amendments issued/ to be issued by DOT/ Govt. of India from time to time) along with its Annexure shall be submitted along with the bid.
- 14.2 The bidder shall unequivocally and unconditionally comply with the Government of India instructions as are issued from the Government of India from time to time with respect to security clearance of the equipments and software.
- 14.3 PO shall be issued only after the receipt of security clearance from the licensor/Govt. APO, issued if any, shall be cancelled on equipment failing to get security clearance from the licensor/Govt.
- 14.4 The operation and maintenance of BSNL's networks, by the bidder, wherever required, shall be entirely by Indian Engineers; and dependence on Foreign Engineers shall be minimal and/or almost NIL within a period of one year from the date of P.O. to the successful bidder.
- 14.5 The successful bidder must allow the BSNL, Licensor/DOT and/or its designated agencies to inspect the hardware, software, design, development, manufacturing facility and supply chain and subject all software to a security/threat check at the time of procurement of equipment and at least one more time in the year of procurement and every two years thereafter, till the currency of contract, at the time of discretion of BSNL.



14.6 In the event, any security breach is detected at later stage after deployment/installation of equipment as result of security audit or in any other manner, the relevant equipment supplied by the bidder shall be taken out of service and penalty of Rs.Fifty crores, as levied by Licensor on BSNL shall be payable to BSNL by the bidder. The bidder shall deposit the penalty and additional penalty with the BSNL within 20 days of the Notice. The Licensor may also at its discretion blacklist the bidder from making any supply deals with Indian Operators.

15 AWARD OF CONTRACT

15.1 The Purchaser shall consider placement of orders of supplies on those bidders whose offers have been found technically, commercially and financially acceptable and whose goods are considered suitable as per specifications given in the bid document.

15.2 The bidders with the lowest evaluated price of the technically & commercially responsive bids shall be called as L-1 bidder.

15.3 The order shall be placed on two bidders. The package shall be distributed among the L-1 and L-2 bidders. L-1 shall be eligible for 70% of the universities [280] and L-2 shall be eligible for 30% of the universities [120] at L-1 evaluated rates. The list of Universities to be assigned to L1 & L2 is shown in **Annexure-II**. The list of Universities is tentative and subject to change. The actual list of Universities in each of the Circles shall be finalized by BSNL at the time of award of Work and placement of APO.

15.4 The ordering price on the L-2 bidder shall be as per the existing practice followed in BSNL (derated factor principle).

15.5 In the event of any of the eligible bidder/bidders not agreeing to supply the tendered item or not being considered by BSNL for ordering, inverse ranking of the vendors below the aforesaid bidder/bidders shall be recast to fill up the vacated slot. This shall be done to ensure that the number of bidders supplying the equipment remains same as earlier.

15.6 BSNL reserves the right to place add-on orders by way of additional universities within the quantity variation permissible as per the tender.

16 TSEC APPROVAL

16.1 ***The bidder shall supply QA approved equipments having valid TSEC.***

16.2 ***Copy of TSEC Approval of QA Circle of BSNL (in QF103 format) shall be submitted along with the bids.***

17 SUPPLY, INSTALLATION AND COMMISSIONING:

17.1 The Supplier shall be responsible for Supply, Installation, integration & commissioning of all the active and passive components as per standards in each of the University Campus including all the installation material, accessories, consumables for the installation of the Systems. This also includes the supply, installation & configuration of associated security systems to be installed.

17.2 The activities to be undertaken for the project execution include but is not limited to installation of Core Switch, Security equipment, UPS, Edge Switches, Ethernet LAN cabling, Optical fiber laying for connectivity.

17.3 For complete Project management during its execution phase (till commissioning of the Project) following is required:-

1. One National Project Manager with at least 5 years of experience of Overall Project Management.
2. Four Regional Project Managers, one for each zone with 3 to 4 years of experience of Project Management and execution of such IT projects.
3. One Site Incharge for each site, preferably OEM certified with 1 to 2 years of experience in system integration, networking and maintenance. The person should have appropriate authority to take decisions for smooth and early completion of the work.

17.4 After commissioning the site, the manpower deployment for facility management services shall be the responsibility of the bidder to meet the Service Level (SLA) given in the bid.

17.5 The Supplier shall be responsible for carrying out all general tests such as Power on test on delivery, pre-installation checks to ensure correct connections etc. The Supplier shall be responsible for end to end implementation of the LAN infrastructure and its integration with eMS to be deployed by the Supplier.

17.6 The requirement of equipment mentioned in this bid document gives only the minimum set of equipment to be supplied as a mandatory requirement. It shall be the Bidder's responsibility to ensure that any additional equipment required for satisfactory performance of the services as mentioned in this document, is also supplied and is quoted in the Bid Document

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as additional items. The Supplier shall quote and provide / supply any item(s) of latest make and model not included in the bill of material, but required for successful implementation and commissioning of the network as well as its management.

- 17.7 In case during the execution of the project or thereafter during Warranty/ AMC it is found that any additional equipment (Hardware / Software) is required while the same is not quoted by the bidder, the same shall be supplied by the bidder and the purchaser shall not pay for the same.
- 17.8 The Supplier shall be responsible for configuring and fine-tuning subsystems to achieve overall optimal network performance and highest security.
- 17.9 The LAN equipment in all the Universities is scheduled to be installed within a time period of 3 years. After the expiry of the first 3 years, if an order is placed for LAN setup in any university, BSNL will be at liberty to finalize the rates after negotiation with the Supplier taking the market value of the equipments supplied at that time.

18 IMPLEMENTATION SCHEDULE

- 18.1 The advance Purchase order shall be placed on the Successful Bidder. The Bidder has to furnish the Unconditional Acceptance and the required PBG within a period of 14 days from the placement of APO.
- 18.2 The Supplier shall start the activity of Site Survey and site planning along with BSNL officials and coordinators of Universities from the date of confirmation of APO by the bidder
- 18.3 A detailed layout clearly indicating the cabling path from Central equipment site (Core Switch) to the various Edge L2 switches and finally terminating on I/O boxes with identifiable location details like Block/ Department, Room number etc. where each of the LAN nodes are to be installed shall be prepared at the time of site survey by the bidder in consultation with University/ BSNL, as per the requirement of the University. The same shall be approved by designated personnel in BSNL/ Concerned University.
- 18.4 The Supplier shall submit the design documents for all universities within a month from the date of receipt of the Advance Purchase order. The design documents shall be examined by BSNL/ concerned university authorities in a week's time.
- 18.5 The Purchase order for the establishment of LAN infrastructure shall be placed on receipt of the design document and the required PBG as per APO.
- 18.6 Equipment for validation /field trial shall be supplied within 60 days from the date of placement of Purchase order .
- 18.7 Selected bidder shall offer for validation for complete equipment at the validation sites with in 90 days of placement of Purchase order and get the validation completed with in 120 days from the date of PO.
- 18.8 Equipment at the locations other than validation locations shall be supplied within **90 days** of the date of P.O. In case the equipment fails in the Validation/field trial, then all the liability shall be of the supplier. **The validation and implementation in universities are planned to run in parallel and both activities have to be completed within 120 days from the issue of PO.**
- 18.9 The equipment supplied for commissioning the LAN infrastructure will be subject to Acceptance Testing.
- 18.10 Commissioning of Total LAN shall be completed in all respects **within 120 days** (all days including Sundays and Holidays) from the date placement of Purchase Order for a university.
- 18.11 In case there is delay in provisioning of Space or any other justified requirement from the University, the Supplier shall immediately inform in writing to BSNL , which shall then grant additional days extension as deemed necessary.
- 18.12 The national manager of the bidder shall continuously appraise the AGM (MM) O/o CGM, STP, Chennai-28 of the progress of the project on a fortnightly basis through written reports and in addition to the day to day interaction.

19 QUALITY ASSURANCE:

19.1 Indigenous Equipments:

- 19.1.1 The supply of equipment manufactured in India shall be accepted only after Quality Assurance tests are carried out by Quality Assurance wing of BSNL as per prescribed schedule successfully. The Excise gate pass issued by Excise authorities, Government of India for the purpose shall be submitted along with the test results.
- 19.1.2 The QA unit of BSNL while clearing the equipment/stores shall strictly adhere to the package discipline as described in Purchase Order. Supplies made in full, as per purchase order wise during delivery period only shall be deemed to have been supplied within the scheduled delivery period.

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19.2 Imported Equipments

- 19.2.1 The supply of imported equipment shall be accepted, only if it is accompanied with factory test reports / certifications of various performance parameters as per relevant TEC GR and special terms and conditions of the tender.
- 19.2.2 The details of such factory tests conducted abroad, shall be submitted by the successful bidders. Any additional tests required by BSNL shall also be included in the factory test.
- 19.3 **Quality Manual:** Bidder must have a sound and well documented Quality Framework. A quality manual describing the prevailing QA system shall be submitted along with the bid, which should include the following:
- 19.4 The details about the component quality assurance and quality system practices, including data on critical components.
- 19.5 The quality data of production line for the production under consideration. Bidder is permitted to submit a valid ISO **certificate** (ISO 9001:2000) or equivalent in support of this clause.
- 19.6 The field performance data of the same model of equipment, as quoted in the tender, already supplied to other major customers (at least two) for enabling assessment of the reliability of performance

20 ACCEPTANCE TESTING

- 20.1 The purchaser reserves the right to appoint any testing authority for carrying out Acceptance testing of the network and its network elements. The Acceptance Test schedule generally covers the following:
- Check on ironwork, cabling and wiring.
 - Functional test on individual equipment/network.
- 20.2 The Selected Bidder shall finalize an Acceptance Test schedule at least 15 days in advance of offer for Commissioning in consultation with Purchasing Authority. He shall also clearly indicate the specifications clause(s) verified by each test. The tests shall include test on the traffic handling capacity, performance etc. BSNL shall have the right to make modifications or additions to any test or techniques of measurement as considered necessary by it.
- 20.3 The acceptance testing shall be carried out by a team as designated by BSNL/ Concerned University.
- 20.4 The team will carry out all the tests detailed in the acceptance test schedule to confirm that the performance of the different modules, subsystems, and entire installation satisfies the specified requirement of specifications including service performance.
- 20.5 A detailed Acceptance Testing plan shall be prepared by the Supplier including test parameters, features/ functionality desired. The test schedule shall be finalized by the AT team comprising designated BSNL/University officials. The AT parameters as decided by the AT team shall be final and binding on the bidder.
- 20.6 All the functionalities, features and Configuration relevant to the LAN setup shall be documented by the bidder.
- 20.7 On installation of the complete LAN setup and OF cabling, the bidder shall offer for Acceptance testing. The bidder shall ensure that the cabling & terminations are done in accordance with the industry standards. The bidder shall submit a certificate from OEM of LAN passive components like patch cords/ cables, I/O boxes etc. that these components can be used continuously for a minimum period of 10 years.
- 20.8 Machine crimped patch cords/ cables shall only be used. No manual crimping shall be acceptable.
- 20.9 Any components or modules failing during the acceptance tests or requiring alterations necessary to meet Specification requirements shall be replaced at no extra cost to the Purchaser at site by the Selected Bidder. These shall be shipped within two weeks of the initial reports. Notwithstanding the pre-supply tests and inspections prescribed in this document.
- 20.10 The equipment and accessories will also be pre-tested by supplier, before offering to A/T, in coordination with designated BSNL authorities as per the procedure and Proforma provided by purchaser in due course during and after installation/ commissioning before “take over” and if any equipment and part thereof is found defective, the same shall be replaced at no cost to the purchaser.
- 20.11 If any equipment or any part thereof, before it is taken over is found defective or fails to fulfil the requirements of the contract, the inspector shall give the Supplier notice setting forth details of such defects or failure and the supplier shall make the defective equipment good, or alter the same to make it comply with the requirements of the contract forthwith and in any case within a period not exceeding **one month** of the initial report. These replacements shall be made by the

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- supplier free of all charges at site. Should it fail to do so within this time, the purchaser reserves the discretion to reject and replace at the cost of the supplier the whole or any portion of equipment as the case may be, which is defective or fails to fulfil the requirements of the contract. The cost of any such replacement made by the purchaser shall be deducted from the amount payable to the supplier.
- 20.12 When the performance tests called for have been successfully carried out, the inspector/ ultimate consignee (University Nodal Officer) will forthwith issue a Taking over Certificate. The inspector /ultimate consignee shall not delay the issue of any "taking Over Certificate" contemplated by this clause on account of minor defects in the equipment which do not materially affect the commercial use thereof provided that the supplier shall undertake to make good the same in a time period not exceeding six months. The Taking over Certificate shall be issued by the ultimate consignee within six weeks of successful completion of tests. In this case **BCPC** (Bills Copy Payable Challan) shall be equivalent to "Taking over Certificate", issuance of which shall certify receipt of goods in safe and sound condition. However, they shall not discharge the supplier of their warranty obligation. BCPC in respect of last consignment against the purchase order will be equivalent to "Taking over Certificate".
- 20.13 After all acceptance tests have been successfully carried out to the satisfaction of BSNL, the designated Testing Authority shall certify the network/node as fit for commissioning.
- 21 Penalties for delay in Supply**
- 21.1 The penalties for the delay in supplies shall be as per Clause-16 of Section-III of this document.
- 21.2 The whole equipments meant for one university shall be treated as one Package. The penalty will be calculated for the whole equipments meant for one university.
- 22 Penalties for delay in Implementation**
- 22.1.1 For each order released for setting up the LAN infrastructure in a University, the failure to complete the Acceptance Test within the stipulated time specified in the implementation plan/P.O, BSNL without prejudice to other remedies under the agreement, **levy as a penalty a sum equal to 0.5% of the cost of the equipment to be deployed for the university to be paid to the vendor for the said University, for each week or part thereof, until actual delivery of performance. The maximum penalty for delay shall not exceed 12% of the total cost of the equipment as per P.O for that university.** The penalty shall be deducted from the payments due to the Supplier by BSNL.
- 22.1.2 BSNL may however terminate the agreement if the delay exceeds 20 weeks.
- 23 Operational Penalties**
- 23.1.1 In the event the Supplier is unable to meet any one of the SLA parameters defined in this tender for any of the work orders released under this project, for more than a cumulative sum of 20% of the sites for 2 or more consecutive quarters, BSNL without any prejudice will deduct an additional penalty (besides the normal penalty for that site) of 2%, of the total AMC under the project (to be paid on quarterly basis for these sites) for each quarter, and if the number of such non performing quarters exceeds 4 quarters, BSNL reserves the right to terminate the Agreement.
- 24 WARRANTY AND CUSTOMER SERVICE PROGRAM COVERAGE**
- 24.1 The warranty of the Stores/ Equipment supplied for the project shall be for **24 months** from the date the last equipment in the network has been taken over per university. Take over certificate shall be issued University wise.
- 25 FACILITY MANAGEMENT**
- 25.1 Bidder shall be responsible for the management and maintenance of all the equipments from the time of issuance of the certificate "Fit to Use" (date of Commissioning) for the installed LAN setup in the University.
- 25.2 The activity is to be undertaken for each university for a period of 5 years from the date of Commissioning.
- 25.3 During the Currency of the project, the Supplier shall be responsible for the smooth working of the LAN equipment installed in all the Universities.
- 25.4 The facility management shall comprise the following:**
- 25.4.1 A Helpdesk system with trouble ticketing feature to be setup by the Bidder at its own cost at its own location.
- 25.4.2 Desktop PC for Facility management at local level duly manned by the personnel of the successful bidder.



- 25.4.3 The Supplier shall depute a team of trained network engineers for facility management to operate, configure, maintain and manage the LAN setup infrastructure.
- 25.4.4 The operating personnel of the Supplier shall be equipped with accessories like mobile Phones etc. at the cost of the Supplier. The Bidder shall provide the comprehensive plan with regard to the manpower deployment for the project.
- 25.4.5 The scope of the facility management is not just limited to the infrastructure pertaining to the LAN set up in the University but also to suppliers/ vendor management. The Supplier will develop all the relevant procedures for call management/ fault registration, change management etc. and submit the same to BSNL and shall enforce the adherence of the same. Adherence to the procedures is liable to be audited by BSNL/ University authorities.
- 25.4.6 Following is the list of Tasks to be performed by the Supplier
- i. Round the clock monitoring
 - ii. SLA management
 - iii. Network & Security equipment configuration management
 - iv. Network fault management, Link management
 - v. MIS and report generation, Preventive maintenance etc.
- 25.4.7 The Supplier shall also have established setup to receive complaints during the currency of the project, which includes online complaint receiving system. The Supplier shall record each and every complaint received verbally, telephonically, through email or on website etc. and action taken thereof in a logbook to be maintained such that BSNL/ University authorities can verify the said register at any point of time.

26 SERVICE LEVEL AGREEMENTS AND PENALTIES

- 26.1 The SLA defines the terms of Supplier's responsibility in ensuring the performance of network based on the agreed performance indicators as defined in the agreement. This section defines various Service Level Indicators for the infrastructure established by the Supplier as envisaged.
- 26.2 BSNL shall sign an agreement with the successful bidders an SLA agreement based on the SLA parameters reiterated under these clauses. The exact agreement will be finalized later.
- 26.3 **The SLA parameters shall be monitored for each university separately.** The SLA shall be certified by a nodal officer of the university. A record of each of the parameters shall be maintained by the university nodal officer.
- 26.4 The SLA Requirement based on the MOU being signed with Ministry of HRD for the LAN setup in Universities are as follows.
- a. **Uptime:** The uptime for active components would be 95% for the LAN network provided in colleges & universities.
 - b. Faults in the wiring etc. would be attended within 48 hours of reporting.
 - c. The life span of routers, switches etc. would be 5 years & for passive components in the network, lifespan would be 12 years.
 - d. Any new provisioning requirement would be completed within *five* working days.
 - e. **Spares:** A spare percentage of 2% for switches (not less than one) would be maintained for any emergency /maintenance requirements in each location.
- 26.5 Following shall be excluded from the downtime calculations:
- (a) Scheduled downtime.
 - (b) All failures due to source power unavailability and power conditioning etc. beyond control of the Supplier.
 - (c) WAN Link Failures.

26.6 Service Window

Sr. No.	Service Metrics Parameters	Service Window
1	LAN Infrastructure	24 X 7
2	Service Desk calls	7 am to 7 pm
3	Upgrade, Shifting and preventive maintenance	As per the shutdown schedule

**26.7 Network Services****26.7.1 Active Components**

Sr. No.	SLA Parameter	Target	Penalties in case of breach in SLA	
		Availability (period on one quarter)	Availability	Penalty
1	Active Components, LAN points etc. (for each component excluding wiring and OF cable damage faults)	>=95%	Less than 95% but >93%	Rebate of 0.25% of AMC charge to be paid per quarter towards the component and other equipments whose connectivity is affected by it.
			Less than 93% but greater than 90%	Additional Rebate of 0.5% of AMC charge to be paid per quarter towards the component and other equipments whose connectivity affected by it.
			Less than 90% but >80%	Additional Rebate of 1.25% of AMC charge to be paid per quarter towards the component and other equipments whose connectivity affected by it.
			Less than 80%	No payment of AMC charge to be paid per quarter towards the component and other equipments whose connectivity affected by it.

26.7.2 Ethernet Cabling

Sr. No.	SLA Parameter	Target	Penalties in case of breach in SLA	
		Downtime	Non- Availability	Penalty
1	*Cabling for an Ethernet section (inclusive of UPS)	Less than 2 days in a quarter (cumulative of all incidents of wiring fault in an Ethernet section over a quarter)	More than 2 days affecting more than 10% of the nodes in the Ethernet section but less than 3 days	0.25% of the AMC amount to be paid per quarter for all equipments under said Ethernet section
			More than 3 days affecting more than 10% of the nodes in the Ethernet section but less than 4 days	Additional 0.5% of the AMC amount to be paid per quarter for all equipments under said Ethernet section
			More than 4 days affecting more than 10% of the nodes in the Ethernet section but less than 5 days	Additional 1.25% of the AMC amount to be paid per quarter for all equipments under said Ethernet section
			More than 5 days affecting more than 10% of the nodes in the Ethernet section	No payment of AMC amount to be paid per quarter for all equipments under said Ethernet section

26.7.3 OF cable damage

Sr. No.	SLA Parameter	Target	Penalties in case of breach in SLA	
		Downtime	Non- Availability	Penalty
1	*Damage to OF Cable	Less than 2 days in a quarter (cumulative of all incidents of OF cable damage during a quarter)-	More than 2 days affecting the connectivity of the OF section nodes but less than 3 days	0.25% of the AMC amount to be paid per quarter for all equipments under said OF section
			More than 3 days affecting the connectivity of the OF section nodes but less than 4 days	Additional 0.5% of the AMC amount to be paid per quarter for all equipments under said OF section
			More than 4 days affecting the connectivity of the OF section nodes but less than 5 days	Additional 1.25% of the AMC amount to be paid per quarter for all equipments under said OF section
			More than 5 days affecting the connectivity of the OF section nodes	No payment of AMC amount to be paid per quarter for all equipments under said OF section

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26.7.4 Help Desk Response time

Sr. No.	SLA Parameter	Target	Penalties in case of breach in SLA	
			Availability	Penalty to be calculated over a period of one quarter
1	University LAN setup	Within 30 Minutes of call logged	>30 but <120 minutes of call logged	0.05% of the facility management chares help to be paid per quarter for every instance
			> 120 minutes but less than a day of call logged	Additional 0.25% of Help Desk charges to be paid per quarter for every instance
			> a day	Additional 0.5% per day of Help Desk charges to be paid per quarter for every instance

26.7.5 Resolution Time

Sr. No.	SLA Parameter	Target	Penalties in case of breach in SLA	
			Availability	Penalty to be calculated over a period of one quarter
1	Equipments	Within 120 minutes of call logged	>120 but <240 minutes of call logged	0.05% of the help Desk charges to be paid per quarter for every instance
			> 240 minutes but less than a day	Additional 0.25% of Help Desk charges to be paid per quarter for every instance
			> a day	Additional 0.5% per day of Help Desk charges to be paid quarter for every instance

27 ANNUAL MAINTENANCE CONTRACT

- 27.1 Entire hardware /software supplied by the Supplier including shall be supported for 2 years warranty and 3 years AMC.
- 27.2 The Supplier shall quote for year-wise comprehensive Annual Maintenance Contract for three years which shall become effective at the end of the warranty period. The cost shall be quoted as a lump sum including visits of the engineers, etc.
- 27.3 The terms and conditions for AMC are given in **Annexure-IV**. No separate charges shall be paid for visit of engineers or attending to faults and repairs or supply of spare parts. The cost of the AMC will be added to the basic quotation for the purpose of evaluation at the discount rate of 12% per annum.
- 27.4 During the warranty the bidder shall perform all the functions as enunciated under the AMC at no extra cost to the Purchaser. All the penalty clauses shall be applicable during the period of warranty in case of failure on part of supplier.
- 27.5 The bidder shall, at the time of submitting the bid submit the proposal specifying the fault control centre location and how the bidder proposes to carry out repair under AMC. The bidder shall also indicate what spares will be kept in different locations. The infrastructure planned to be created by the bidder to fulfill his obligations under AMC and his action plan to deal with the various situations arising out of hardware and software faults shall be clearly indicated.
- 27.6 The selected bidder shall submit a bank guarantee against AMC, valid for a period of **three and half** years, two months before the scheduled date of expiry of the PBG submitted against the APO. Purchaser reserves the right to forfeit the PBG if the BG against AMC is not submitted in time. Amount of Bank Guarantee will be the average over four years of the sum of the discounted values of the yearly AMC charges. The validity of the AMC BG shall have to be extended by the bidder to cover the whole three years of AMC, if for any reason the date of start of AMC changes.
- 27.7 The support for planning, optimization and tuning after commissioning, whenever needed during Operation period/ Warranty / AMC shall be provided by bidder at no extra cost to the Purchaser.

28 DOCUMENTATION

Documentation (hardcopy as well as Softcopy) pertaining to the following shall be prepared by the bidder and two copies of the same shall be furnished (One for BSNL and other for the University Authorities) within one week of the Commissioning of the LAN set up in a University:

- a. Installation and Commissioning Procedure

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- b. Complete LAN Setup including Switches, OF /Ethernet cabling layout (as installed), including cable routing, connectivity etc The layout shall detail the locations of the equipment and indicate all wiring pathways.
- c. Manufacturer's technical documentation on all devices used in the system including user manuals for configuration of Switches etc.
- d. Actual Configuration of all devices with a backup copy of all configuration files to enable quick recovery in case of failures.

29 TRAINING

- 29.1 A detailed training material shall be prepared by the bidder on the installed network covering atleast the following:
 - 29.1.1 System Configuration and Network Architecture.
 - 29.1.2 Operation and Monitoring
- 29.2 The bidder shall provide comprehensive training for operation and management of infrastructure installed under LAN setup to minimum 5 designated officials in each university after the Commissioning
- 29.3 The training shall be carried out atleast for 1 day in each university.



SECTION IV-B

FUNCTIONAL AND TECHNICAL REQUIREMENTS

1 FUNCTIONAL REQUIREMENTS

This section describes the various network components required for the BSNL NME LAN Project. The main components of the project are –Core Switches (Layer 3 Switch)/Routers, Firewall equipment, Edge Switches, UPS, UTP cabling, OF Cable, OF Cable accessories and the associated eMS system.

2 SCOPE OF WORK/ACTIVITIES INVOLVED

- 2.1 This tender calls for Setting up & maintenance of University Wide LAN networks in 400 universities over a period of 3 years.
- 2.2 The scope of the work includes site- survey, network design, Supply and delivery of equipment at site, installation, network configuration, security configuration, testing, acceptance, commissioning, training, warranty and facility management of the equipment / network installed in each of the university and after sales services during warranty and AMC period.
- 2.3 This tender also involves facility management for the established network in each of the universities.

3 SITE SURVEY AND DESIGN DOCUMENT:

- 3.1 The Purchase order for Setting up of LAN in each university shall be placed separately on the Supplier.
- 3.2 The selected Bidder (henceforth referred to as “Supplier”) shall conduct the site survey in each of the university for which the order is issued on the Supplier.
- 3.3 The network will need to be designed based on the location of the different buildings in the University campus where the LAN infrastructure is to be established.
- 3.4 The supplier shall then submit the design document.
- 3.5 There will be a single POP location in each university where the Layer 3 Core Switch/router and Security infrastructure shall be located.
- 3.6 Around 400 nodes are proposed to be connected to a single POP in each university. This number may however vary downwardly depending upon the exact requirement in each of the university.
- 3.7 For ease of understanding the network within the university, the network may be categorized into 3 different types of possible connectivity.
- 3.8 **Ethernet Section:** All the offices within the range of 100 meters of the POP shall be connected through Ethernet extension. These Extensions shall be given from the Layer 3 Core Switch or Router as the case may be.
- 3.9 **Fibre Section:** All the offices at a distance of more than 100 meters shall be connected on dark fiber. This type of connectivity may also be required for the offices within 20Km separated through public roads [Multi campus scenario].
- 3.10 A typical connectivity diagram within a university is furnished as Fig. 1. The number of network elements of each type and the connectivity as furnished in the diagram is only indicative and actual requirement of the type and number of network elements, security functionality and the connectivity required for various sections may vary from one university to the other.

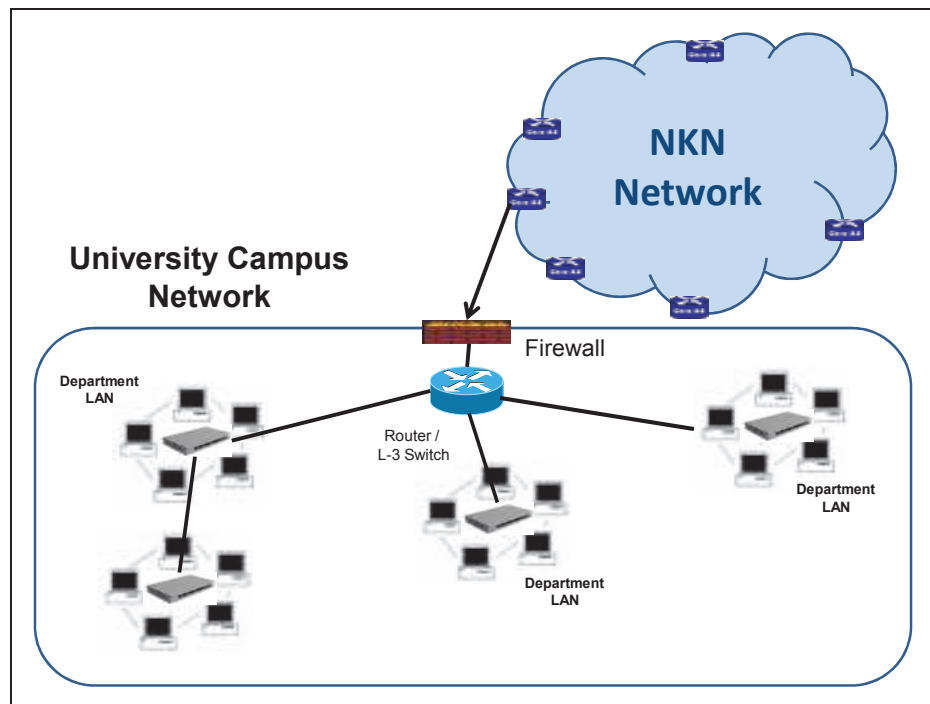


Figure 1 Network Design / Connectivity Diagram

- 3.11 The Supplier shall design and engineer the Turnkey solution for the LAN Setup in each University after understanding the requirement including missing item(s) notwithstanding the detailed BOM given in the tender for successful end to end implementation.
- 3.12 The design document for each university shall be submitted by the Bidder to BSNL for final confirmation within 15 days of the issue of the order for the said university. Any modification of the design, Bill of material recommended by BSNL/ University authorities shall be suitably incorporated and resubmitted to BSNL for approval.
- 4 **Integration with Existing LAN:**
- 4.1 Many of the Universities already have a LAN infrastructure (referred hereinafter as OLD LAN) which will be seamlessly integrated by the Supplier as and when asked for.
- 4.2 The IP scheme for new components being supplied as part of this project (referred hereinafter as NEW LAN) shall be decided during the site survey phase in consultation with the University. The bidder shall be responsible for configuration of components being supplied as part of this project only and configuration/necessary changes in existing set-up of OLD LAN as required shall be done by University. Configuration required in NEW LAN equipment for extending connectivity to the OLD LAN through NEW LAN infrastructure shall be the responsibility of the bidder. Also, if the gateway links of OLD LAN is also required to be terminated on the NEW LAN setup, the same will be the responsibility of the bidder subject to the availability of the required port in NEW LAN setup. Also, the features of Security System shall be extended to the OLD LAN infrastructure only if it does not impact the performance of NEW LAN setup. This shall be decided jointly by BSNL, The University and the Bidder.
- 5 **Infrastructure Works:**
- Bidder shall indicate the requirement of Space, Air-Conditioning and power requirement for the equipment. University will provide the site with air-conditioning, Commercial AC Power and illumination as per the requirement at the site. Cost of the Commercial Electric Power shall be borne by the University.
- 5.1 **Civil Works:** The requisite lockable space for the equipment to be installed shall be provided by the University at all locations. It will be the responsibility of the Supplier for security of the equipment at all the locations till commissioning.



Civil Works, if any, required for passive cabling systems including trenching across the public roads if so required will be the responsibility of the Supplier. Necessary permission to carry out the work shall be given/ arranged by the University.

The Supplier will not cause any damage to the University Buildings / premises/ other property. If any damage occurs, the Supplier will perform restoration. Trenches, path/ road cutting etc. will be filled back and restored to original condition immediately after laying of the conduit/ cable and also the successful bidder will take the required permission for undertaking any construction work. The Successful bidder shall also plug conduits and entrance holes with suitable sealing material, where the cable has been laid.

- 5.2 **Electrical Works:** UPS under this project shall be supplied & installed preferably in the Central Equipment room or in the nearby space/ room provided by the university. Extension of Power from the nearest AC Power point available and that wiring/ cabling shall be the responsibility of the Bidder. Electrical cabling of required gauge from the UPS to the central equipment of the LAN setup shall also be the responsibility of the Bidder. Further, for edge switches, the power for UPS shall be tapped from nearest AC power point available and that wiring/ cabling shall be the responsibility of the Bidder.

5.3 **Structured Cabling System**

- 5.3.1 The structured Campus LAN Network Cabling System is to be designed following the EIA/TIA Commercial Building Cabling Standards. Category-6 (CAT-6) non-plenum 4 pair, 24 AWG, Unshielded Twisted Pair cables shall be used for Data termination. The UTP Cabling shall meet ISO 11801 cabling standards and local construction and telecommunication regulations. The Cabling shall provide a user friendly environment with less technical support and lower maintenance cost.
- 5.3.2 The cables at the workstation end have to be terminated on the CAT-6 RJ-45 outlets and at the Switch Side the same to be terminated on the appropriate patch panels.
- 5.3.3 The 19" rack mountable 24 ports unloaded Patch Panels shall be used along with CAT-6 RJ-45 outlets.
- 5.3.4 Each equipment, panel and outgoing cable from the patch panels shall be labeled. Proper labeling and numbering shall also be provided on the outlets. All cable labels are to be of clear wrap around self adhesive type & each cable is to be labeled at each end at 100mm from termination point. Labeling to be machine typed.
- 5.3.5 The bidder shall plan the cabling system and routing to ensure system-integrity and performance, and that it does not present problems of maintenance, access nor conflict with the operation and maintenance of other systems.
- 5.3.6 All necessary penetrations and access between floors is the responsibility of the bidder, to provide same, and to ensure all penetrations and access holes are fully sealed to local Fire Authority rules.
- 5.3.7 The bidder shall provide adequate support for all cabling that is vertically installed, ensuring that the weight of the cables is sufficiently supported.

5.4 **OFC Laying**

- 5.4.1 24-Core SMF cable that supports dual wavelength (transmitting at 1310 nm and 1550nm ranges) as per TEC GR GR/OFC-17/01. JUN 2007 with latest amendments should be used for Data Backbone.
- 5.4.2 Cables shall have identifier labels at both ends of the cable. Label material shall be suitable for the environment.
- 5.4.3 Cables should be buried at a depth of 1 mtr in PLB HDPE pipewith spec as per TEC GR No GR/CDS-08/02. NOV'2004 with latest amendments, Soil shall be filled up to a height of 250mm above the cable and covered with warning tape. The remaining height of the trench shall be filled with soil. Cable bend radius should be as per the norms and cable markers should be provided every 1 meter .each cable type shall be terminated as indicated below:
- 5.4.4 Cables shall be laid and terminated in accordance with the recommendations made in the TIA/EIA document, manufacturer's recommendations and/or best industry practices.
- 5.4.5 Bend radius of the cable in the termination area shall not be less than 20 times the outside diameter of the cable.
- 5.4.6 Buffer Tubing should be used before the terminations or splicing at the enclosure end.
- 5.4.7 Cables shall be neatly clamped on the walls near the terminations boxes or shelves in the racks.
- 5.4.8 Each cable shall be clearly labeled at the enclosure end. Cables labeled within the shelf or wall mount enclosures, where the label is obscured from view shall not be acceptable.
- 5.4.9 Additional OFC of atleast 20m of length should be left at the enclosure end on both sides for future shifting of Rack/Wall enclosures.

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- 5.4.10 Detailed guidelines on fiber optic cabling in university campus are at **Annexure-1** of this document.
- 6 SLA & Performance Monitoring/ Reports**
- 6.1 The Supplier should be able to offer tabular information giving % of uptime of individual LAN environments on a regular basis.
- 6.2 Bandwidth Utilization reports.
- 6.3 The Supplier should provide the statistical report regarding the resource utilization and Faults in the network (e.g. CPU and memory utilization of Switches).
- 6.4 The following summary reports for analysis purpose:-
(a) Fault Trend Report
(b) Uptime Report
- 6.5 The System must provide a historical reporting facility that will allow generation of reports for previous performance.
- 6.6 Reports should be customizable.
- 6.7 SLA violation alarms must be generated to notify whenever an agreement is violated or is in danger of being violated.
- 6.8 The system must provide the capability to designate planned maintenance periods for services and take into consideration maintenance periods defined at the IT resource level. In addition the capability to exempt any service outage from impacting an SLA must be available.
- 7 Help Desk and Trouble Ticket management System**
- 7.1 This would be an online system deployed by the Supplier which would be used by the Supplier extensively for management of network support activity. Service desk is an application that facilitates the end to end service support.
- 7.2 **User Interface:** The proposed system should have an easy to use interface (preferably a browser based) so that the users in various universities can lodge any complaints and service requests.
- 7.3 **Complete Incident and problem management:** Service desk should address both Incident management and problem management. The application should maintain a classification system that distinguish the single occurrence trouble tickets or incidents needing immediate resolution or that may require longer term to resolve a problem.
- 7.4 Flow of events at the helpdesk
(a) Event to be triggered and forwarded to the service desk.
(b) Service desk to submit and update the trouble ticket.
- 7.5 Task Expected:**
- (a) Automatic forwarding of trouble tickets
(b) Manual Submission of the Trouble tickets:
(c) Ticket mapping and allocation: According to the severity, the ticket should be given to the priority level. Also it should map the ticket to the appropriate personnel for the resolution.
(d) Updating the status
(e) It should be able to log and escalate user interaction and requests.
(f) It should have an updatable knowledge base for technical analysis and further help end users to search solutions for the previously solved issues.
(g) It should support tracking of SLA (Service level agreements) for call requests within the helpdesk through service types.
- 7.6 Results Expected**
- (a) It should be able to provide status of registered calls to users over email and through Web.
(b) Status of registered call.
(c) Historical report indicating the number of calls, time to resolve, status etc for a specified time.
- 7.7 Features Expected**
- (a) Data consistency and reliability
(b) Flexibility and extensibility.

8 SUPPORT FROM OEM

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- 8.1 OEM for hardware and software shall provide the following support and a certificate in respect of the same jointly signed by the bidder and OEM shall be submitted:
- 8.2 Full Professional Services Support for turnkey implementation of the project covering all the above hardware/software components, their planning, design, engineering customization and their integration with other hardware/software components in the project.
- 8.3 Preparation of planning, design, engineering, customization, integration, installation, operations and maintenance documentation
- 9 TECHNICAL AUDIT OF SYSTEM PERFORMANCE**
BSNL / University authorities reserve the right to carry out technical audit of the network through any designated agency from time to time and bidder shall take necessary corrective measures to conform to the performance parameters stipulated in the tender document within the period of performance guarantee.
- 10 RELIABILITY, AVAILABILITY AND PERFORMANCE**
System shall have the following features:
- 10.1.1 Architecture should be as prescribed in the bid.
- 10.1.2 Utilizing the hardware and software to its optimal capacity as per the site requirement and design in the bid.
- 10.1.3 All systems/ sub-systems shall be able to operate 24x7x365 and as per SLA requirement defined in the bid. Quarterly maintenance period per server shall be 4 hours.
- 10.1.4 Notification to the operations team on critical errors that impact the normal operation of the system. Notifications shall be given through alerts and messages on consoles and also through email and SMS etc with the help of Centralized NMS and Helpdesk System.



SECTION V SCHEDULE OF REQUIREMENTS

The summary of the schedule of requirements for the NME LAN project is furnished in the Tables below in Phase-wise manner. Please also refer Notes below.

S.N.	Item	Year 1	Year 2	Year 3	
(1) CENTRALIZED HARDWARE					
1.1	Requirement for Nodal Universities				
a)	Router-Type-A (See Note 8)	30	40	30	
b)	Firewall-Type-A	30	40	30	
c)	Layer-2 Ethernet Switch	600	800	600	
1.2	Requirement for Other Universities				
a)	Router +Firewall-Type-B	70	110	120	
b)	Layer-3 Ethernet Switch	70	110	120	
c)	Edge (Layer-2 Ethernet) Switch(24 Ports)	1400	2200	2400	
1.3	UPS for the Core equipment (Online with Four hour backup)	100	150	150	
1.4	Router eMS (H/W+S/W) (L-1 Quantity)	1	0	0	
1.5	Router eMS (H/W+S/W) (L-2 Quantity)	1	0	0	
1.6	Desktop for facility management	100	150	150	
1.7	Rack for the Router, Switch etc at the university central location	100	150	150	
(2) UTP SECTION					
2.1	Cat 6 UTP Cable (305 Mtr Box) including ducting and laying (no. of Boxes)	3000	4500	4500	
2.2	Cable conduit (7000 mt per university) in meters	700000	1050000	1050000	
2.3	Patch Panel 24 port with loaded IO Modules	2000	3000	3000	
2.4	Information Outlet Box(With only one RJ 45)	10000	15000	15000	
2.5	Information Outlet Box(With only two RJ 45)	10000	15000	15000	
2.6	Information Outlet Box(With only four RJ 45)	5000	7500	7500	
2.7	Patch Cord of 1mtr Cat 6 (from s/w to patch panel)	48000	72000	72000	
2.8	Patch Cord of 2mtr Cat 6 (From I/O box to PC)	40000	60000	60000	
2.9	Rack, Wall Mountable at each department for housing the LAN switch, Patch panels etc	2000	3000	3000	
2.10	OFC Patch Cord Multimode Duplex SC-LC connectors (10mt)	2000	3000	3000	
2.11	OFC Patch Cord Single Mode Duplex SC-LC connectors (10mt)	2000	3000	3000	
(3) Optical Fiber Cable and accessories					
3.1	HDPE PLB 40/33mm Duck as per GR in Km	700	1050	1050	
3.2	24F OFC as per GR in Km	750	1125	1125	
3.3	Push Fit Coupler	1500	2250	2250	
3.4	End plug	800	1200	1200	
3.5	UJC for 24F	375	565	565	
3.6	WSC (24F)	3000	4500	4500	
3.7	FDMS 96F	100	150	150	
3.8	fdf wall mountable (Terminating 2 x 24F cable) with 48 zero dB connectors	1500	2250	2250	
3.9	SC Pigtail 5mt	24000	36000	36000	
3.10	OFC Patch Cord Multi Mode SC-SC connectors (1mt)	4000	6000	6000	
3.11	OFC Patch Cord Single Mode SC-SC connectors (1mt)	4000	6000	6000	
3.12	PVC Flexible Pipe 1" (mt)	4000	6000	6000	
(4) INSTALLATION AND COMMISSIONING					
4.1	PLB laying, Pushfit couplers leading into the room, OFC blowing charges perKm	750	1125	1125	
4.2	Clamping the leading in OFC through flexible PVC upto WSC, WSC installation, splicing, extending 24F patch cords to FDF	500	750	750	

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	through flexible pipe arranging neatly and extension to the switches, patching other fibers				
4.3	Installation and commissioning of L-2 switch, Patch panel and required UTP wirings through Duct	2000	3000	3000	
4.4	Installation and commissioning of L-3 switch, Patch panel and required UTP wirings through Duct	70	110	120	
4.5	Installation and commissioning of Router-Type-A and Firewall type-A Patch panel and required UTP wirings through Duct	30	40	30	
4.6	Installation and commissioning of Router +Firewall-Type-B Patch panel and required UTP wirings through Duct	70	110	120	
4.7	Installation and commissioning of eMS L-1 quantity	1			
4.8	Installation and commissioning of eMS L-2 quantity	1			
4.9	Installation & Commissioning of IO's	25000	37500	37500	
4.10	UTP cabling through conduit per Km	1000	1500	1500	
SPARES & MISCELLANEOUS ITEM					
5.1	Spares (a spare of 5% for Switches (minimum one) would be maintained for emergency)	Fill as required	Fill as required	Fill as required	
5.2	Any other Miscellaneous item (s)	Fill as required	Fill as required	Fill as required	

▲▲ Note: -

- Each Line Item in the schedule of requirement may represent more than one individual unit of equipment including hardware and software etc. Bidder shall therefore submit full details of entire equipment including hardware, software and licenses quoted against each line item.
- The bidders are permitted to offer the layer 3 device as a single box or multiple boxes, all forming a single logical unit and meeting the requirements as specified.
- The bidder shall submit the detailed break-up of the material list corresponding to each unit of hardware upto the card level and software module level along with the cost of each item given above in a separate Annexure. In the case of software, the bidder shall also provide the breakup of per-user/per interface/per device software license as applicable.
- Calculations done to determine the quantity of hardware and software licenses etc shall be also be shown at separate Annexures for each line item.
- The bidder shall include any other hardware/software item required for installing, commissioning the system & commercial launch of service.
- Any other item not covered above but essential for successful completion of project on turnkey basis should also be added in the price schedule and its details should be given in the separate Annexure.
- In case it is found that any item not provided in the bid is needed for successful implementation of the project, will have to be supplied by the bidder free of cost.
- The bidder may quote the cost of the 10G / IG interface costs for allowing BSNL to procure additional interface cards on a later date for upgrading the Type-A Routers.

"We hereby declare that in quoting the above prices, we have taken into account the entire, credit on inputs available under the MODVAT Scheme introduced w.e.f. 1.3.1986 and further extended on additional items till date.

© Note:

- Bidder shall quote 5% spares of control card, power supplies and interface cards for the hardware quoted. The total number of spares of each type shall be rounded up to the next higher integer. Detailed calculations for the spares along with justification shall be given in technical as well as un-priced bill of material.
- In case the control cards, power supplies, interface cards are not modular the entire chassis shall be considered for calculation of 5% spares.

All active and passive components requirement is indicative and hence may vary as per the actual requirement. The exact distances for UTP and OFC cabling will be assessed at the time of site survey. The final payment shall be made as per the actual requirement and in accordance with the Financial Bids.



SECTION VI Technical & Functional Requirements

1. General

- 1.1. The Network design has following components: Router / L-3 Switch, Firewall and Edge Switches.
- 1.2. The requirement of the Router/Layer 3 Switch and the Edge Switches in different Universities may vary depending upon the actual no. of Ethernet sections/ Fibre sections required in a University.
- 1.3. There are two Types of Universities i.e. the Nodal Universities and Other Universities. The Bill of material for the Router/Firewall/Switches in these universities shall be as follows.
- 1.3.1. Nodal Universities (100 No)
- a. Router – Type A – 1 No
 - b. Firewall – Type A – 1 No
 - c. Layer-2 Ethernet Switch – 20 No
- 1.3.2. For the Nodal universities, the bidder has an option of supplying the Router + Firewall in a single box. The total interfaces shall meet the total requirements except for the 2 No each of the 10/100/1000 interfaces for linking of both the boxes.
- 1.3.3. Other Universities (300 No)
- a. Router + Firewall – Type B – 1 No
 - b. Layer-3 Ethernet Switch – 1 No
 - c. Layer-2 Ethernet Switch – 20 No
- 1.3.4. For the other universities, the bidder has an option of quoting an integrated Router + Firewall + Layer-3 Switch. The total interfaces shall meet the total requirements except for the 2 No each of the 10/100/1000 interfaces for linking of both the boxes. Moreover the throughput shall be additive.
- 1.3.5. Similarly for the other universities, the bidder has an option of quoting separate Router and Firewall. However there shall be two additional 10/100/1000 interface in each of the above boxes.
- 1.4. The Router at the University premises interfaces with NKN or BSNL Network on one side and the various departmental Edge switches on the other side. There shall be one more option of interconnecting the Nodal university Routers in a mesh architecture and connecting the Other University Routers to the Nodal university.
- 1.5. All equipments shall work on 230V A/C

2. SPECIFICATION OF EQUIPMENTS

2.1. Router Type-A

- 2.1.1. The Router shall be as per Chapter-2 Internet Core/Aggregation w.r.t. TEC GR for Router i.e. GR/TCP-01/02.AUG.2003.
- 2.1.2. The Routers shall support Power supply redundancy. However control plane and switch fabric redundancy is not envisaged. Accordingly the clauses 2.1(b), 2.3(a),(g),(h),(i),(j) of the above referred GR shall be ignored.
- 2.1.3. One eMS shall be supplied for all the Routers supplied by the vendor. The eMS requirements shall also be as per the above referred GR.
- 2.1.4. The interface requirements are given below. Accordingly clauses 2.5.1 and 2.7.5 related to SONET, SDH, FR, ATM, E1 interfaces shall be ignored.

2.1.5. Connectors/ Interfaces:

SFP based 10/100/1000 Base-T auto negotiating [CIR = 250Mbps, MIR = 1000Mbps per interface]	4
SFP based GE Optical Multimode [CIR = 250Mbps, MIR = 1000Mbps per interface]	6
SFP based GE Optical SM 1550nm 40Km [CIR = 250Mbps, MIR = 1000Mbps per interface]	10
Upgradability to additional 2x10GE 1550nm 40Km or 20x1GE 1550nm 20Km	

2.2. Firewall Type-A

- 2.2.1. The Firewall shall be as per TEC GR GR/FWS-01/02.SEP2006, Category C (OPSEC alliance is optional) with Power supply redundancy.
- 2.2.2. HA for active-active and active-passive shall be ignored as only one firewall per university.
- 2.2.3. Throughput shall be 2.5Gbps for IMIX packets and 1.5Gbps for IPSec VPN.
- 2.2.4. Clauses 1.2.2(iii),(viii), 1.2.4(a) of the above referred GR w.r.t. proxy and e-mail filtering shall be ignored.
- 2.2.5. **Interfaces:** Should support minimum four interfaces of 10/100/1000 Mbps.



2.3. Router + Firewall – Type-B

- 2.3.1. The Firewall shall be as per TEC GR GR/FWS-01/02.SEP2006, Category C (OPSEC alliance is optional) with Power supply redundancy.
- 2.3.2. HA for active-active and active-passive shall be ignored as there is only one firewall per university.
- 2.3.3. Throughput shall be 2.5Gbps for IMIX packets and 1.5Gbps for IPSec VPN.
- 2.3.4. Clauses 1.2.2(iii),(viii), 1.2.4(a) w.r.t. proxy and e-mail filtering shall be ignored.
- 2.3.5. The Routers shall meet the functional requirements as per Chapter-3 of the TEC GR for Router i.e. GR/TCP-01/02.AUG.2003. The clauses 3.5.1(b) w.r.t X.25 support, 3.7 (k),(m) and 3.8(d) management related to ISDN, FR and X.25 may be ignored.

2.3.6. Interfaces:

10/100/1000 Mbps RJ45 Ethernet ports	4
SFP based GE Optical 1550nm, 40Km	2

2.4. Layer-3 Ethernet Switch

- 2.4.1. The Layer-3 switch shall be as per Chapter-4 of TEC GR for LAN Switch No. GR/LSW-01/03 Sept 2007.
- 2.4.2. The switch shall support power supply redundancy. However control plane and switch fabric redundancy is not envisaged. The clauses 4.1(g), (i), (j), 4.2, 4.3 and 4.4(ii) shall be ignored. The switch shall be fixed configuration standalone type.
- 2.4.3. The requirement of out of band management as per clause 4.8(iii) shall be ignored. However the switch shall support web management.
- 2.4.4. The switch shall support the Routing and VLAN features as per clause 3.5 and 3.6 except for clause 3.6(ii) of the above TEC GR.
- 2.4.5. Backplane capacity (Full duplex) – 10Gbps
- 2.4.6. Packet Forwarding Rate – 8Mpps
- 2.4.7. MAC Address support – 20,000
- 2.4.8. The interface requirements shall be as follows:

10/100/1000 Mbps RJ45 Ethernet ports	8
SFP based GE Optical 1550nm, 20Km	8
SFP based GE Optical Multimode	8

2.5. EDGE (L-2 Ethernet) SWITCH (24 ports)

- 2.5.1. The Edge switch shall be as per Chapter-4 of TEC GR for LAN Switch No. GR/LSW-01/03 Sept 2007.
- 2.5.2. The redundant power supply, control plane and switch fabric is not envisaged. The clauses 4.1(g), (i), (j), 4.2, 4.3 and 4.4(ii) shall be ignored. The switch shall be fixed configuration standalone type.
- 2.5.3. The requirement of out of band management as per clause 4.8(iii) shall be ignored. However the switch shall support web management.
- 2.5.4. The interface requirements shall be as follows:

10/100/1000 Mbps RJ45 Ethernet ports	20
SFP based GE Optical 1550nm, 20Km	2
SFP based GE Multimode interface	2

2.6. Facility Management, Security Log Management & Reporting

Bidder shall supply Windows or RHEL based Console for management and extensive online logging and reporting features as mentioned below to comply with various government and educational compliances

- Management Console of L3 Device/ Security Module and L2 Switches.
- When required, shall connect directly to Switch and Firewall through management port
- Access restriction Management (Security policies etc.)
- Log Management
- Security Management
- Security/ Forensic Analysis of logs for user identification etc.
- Reporting tool for generating customized reports from UTM. All logs / reports must be grouped like student gp/ faculty gp based not limited to just IP.



- *The Hardware provided for this purpose must be able to keep/ store on-line logs for one month. Beyond this period, the logs shall be transferred for permanent storage on external storage (Hard disk) and on DVD's permanently.*

Console HW shall meet following requirements

1. Desktop Model
2. Dual Core CPU
3. Processor speed of minimum 2.6 GHz
4. 2 GB RAM
5. 1 TB of Usable Storage on 300/450 GB Disks or higher to meet RAID 10
6. combo DVD RW drive
7. One Serial port & one parallel port
8. Two pairs of USB (USB 2.0 or above) ports
9. Two nos. of RJ45 GbE (10/100/1000) Ethernet ports
10. Preloaded OS with Original Licences copy (CD/DVD)
11. Desktop Antivirus, with one year subscription.
12. 17" TFT/ LCD monitor or higher.
13. External Hard disk of 1TB capacity.
14. 100 Writable DVD's

2.7. UPS for central site in University (2 KVA online)

2.8. GigE Optics - SFP Transceivers Requirement

- 2.8.1. Shall be Standards based—802.3z, 802.3ah, 802.3u, 802.3ae, and 802.3ak compliant where appropriate
- 2.8.2. Compliant with Requirements to Reduce Hazardous Substances RoHS 5 or RoHS 6 EU standards
- 2.8.3. Shall be compliant with requirements of International Safety Standards EN 60825-1, EN 60950-1
- 2.8.4. Shall be Hot swappable
- 2.8.5. Shall be usable in all active devices (Layer 3 devices, switches, Security applications) quoted

2.9. UTP CABLING SYSTEM

Type	Unshielded twisted pair cabling system, TIA/EIA 586-B.2, Category 6.
Networks Supported	10 / 100 Ethernet, 155 Mbps ATM, 1000 Mbps IEEE 802.3ab Ethernet
Approvals	
TIA / EIA 568-B.1	ETL verified
IEEE 802.3ab	Zero bit error, ETL verified
Warranty	20-Year Extended product warranty and Application Assurance
Performance characteristics to be provided along with bid	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR for channel should exceed the standard specs by 400% Margin.
Should support 6 Connection Channel and exceed CAT6 Specs	Within 100 mtrs of channel, 6 terminations of cable should guarantee CAT6 performance
Should perform to CAT6 with short channel	Should guarantee the CAT6 performance even when the termination of Information outlets are done within 15 mtrs of MDF

2.10. UTP CABLE

Type	Unshielded twisted pair, TIA/EIA 586-B.2, Category 6.
Material:	
Conductors	23 AWG solid bare copper



Insulation	Polyethylene
Pair Separation	Cross member fluted spline
Jacket	Flame Retardant PVC
Packing	Box of 305 meters
Delay Skew	45ns / 100m MAX.
Operating temperatures	-200C to + 600C
Approvals	UL Verified
Performance characteristics	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR

2.11.

UTP JACKS

Type	PCB based, Unshielded Twisted Pair, TIA / EIA 568-B.2-1, Category 6 - Modular Jack
Durability	750 mating cycles, 200 termination cycles
Approvals	UL listed
Performance characteristics	Insertion Loss, NEXT, FEXT and Return Loss rated at least 350 MHz
Dust Covers	Integrated hinged
Other features	Strain relief and band limiting boot for cable 94 V-0 rated
Jack Contacts	Phosphorous Bronze, Plated with 1.27 micro meter thick gold

2.12.

UTP PATCH PANEL

Type	24-port, Modular, PCB based, Unshielded Twisted Pair, TIA /EIA 568-B.2-1, Category 6- 1 U size
Ports	24
Port arrangement	Modules of 6-ports each
Category	TIA / EIA 568-B.2-1 category 6.
Circuit Identification Scheme	Icons on each of 24-ports
Port Identification	9mm or 12mm Labels on each of 24-ports (to be included in supply)
Height	2U including cable manager
Cable Management	Rear cable retention bar has to be provided Front patch cord organizer should be integral part
Durability	
Modular Jack	750 mating cycles
Wire terminal (110 block)	200 termination cycles
Approvals	UL listed
Termination Pattern	TIA / EIA 568 A and B;
Performance Characteristics to be Provided	Insertion Loss, NEXT, FEXT and Return Loss rated at least 350 MHz

**2.13. Information Outlet**

- 2.13.1. High performance Unshielded Modular Jacks with integrated Connecting blocks most suitable for CAT-6 applications
- 2.13.2. Supports 10BaseTx/100BaseTx/ 1000BaseTx (Gigabit) Ethernet communications.
- 2.13.3. Should Meet the specification of industry Standard parameters for CAT6 viz., NEXT, PSNEXT, ACR, PSACR, ELFEXT, PSELFEXT, Return Loss, Propagation Delay, Delay skew and Attenuation.
- 2.13.4. Compliant to EIA/TIA-568-A/B wiring standard for CAT-6 and UL Twisted pair qualification program
- 2.13.5. All parts qualified with TIA Certified Cable Tester
- 2.13.6. IO with bend limiting Strain Relief on back of IOs
- 2.13.7. Key stone Jack is 50 microns gold Plated for higher performance
- 2.13.8. Provision for write-on label.
- 2.13.9. Frequency: 1-250 Mhz
- 2.13.10. Universal (TIA 568A/B) Colour coded connecting blocks with horizontal crimp style for easy wiring
- 2.13.11. Cable tie eyelets for rear cable management and strain relief.
- 2.13.12. Automatic door shutter for eliminating dust particles when the port is not in use.
- 2.13.13. Stuffer caps are provided.

2.14. WORKSTATION /EQUIPMENT CORDS

Type	Unshielded twisted pair, TIA/EIA 586-B.2, Category 6.
Conductor	24 AWG 7 / 32, stranded copper
Length	2 Mtr or 1 Mtr
Plug Protection	Anti Snag
Warranty	20 -year component warranty
Category	Category 6.
Jacket	PVC
Insulation	Flame Retardant Polyethylene

2.15. 24 FIBER OF CABLE

- 2.15.1. The OF Cable shall be as per GR/OFC-17/01. JUN 2007 with latest amendments
- 2.15.2. 24F of cable shall have markings: purchaser name (BSNL), length in meters at regular intervals
- 2.16. 24F OF cable accessories: **10m FC-LC patch cards, 10 m SC pigtails shall as per GR/OFJ-02/01. MAY 2004 with latest amendments**
- 2.17. 96F FDMS along with '0' db connectors shall as per GR/FDM-01/02 APR 2007
- 2.18. 24F SJC/BJC shall as per GR/OJC-02/02 SEPT 2003
- 2.19. Wall Splicing Closure (WSC) for cable termination shall as per GR/FTB-02/01 SEPT 2005. However, it shall meet the following requirements which shall over ride the requirements spelt out in the GR.
- **It shall support termination of 2x24F cable**
 - **Casing made of suitable material which shall be weather proof suitable for indoor and outdoor applications**
- 2.20. 40/33 mm PLB of 1km length duct shall be as per GR/CDS-08/02. NOV'2004 with latest amendments. PLB pipe shall have markings: purchaser name (BSNL), length in meters at regular intervals
- 2.21. The PLB accessories (Push fit Couplers, End Plugs Cable, sealing plug, End caps) shall be as per GR/CDS-08/02. NOV'2004 with latest amendments
- 2.22. The DWC/GI Pipes shall be as per GR/DWC-34/01 SEP 2007 with latest amendments.



**SECTION VII
PART-I
BID FORM**

RFP No.

Date :

To

Chief General Manager,
Southern Telecom Projects,
Chennai-28.

Dear Sir,

1. Having examined the conditions of contract and specifications including addenda Nos.....the receipt of which is hereby duly acknowledged, we, undersigned, offer to supply and deliver in conformity with the said drawings, conditions of contract and specifications for the sum shown in the schedule of prices attached herewith and made part of this Bid.
2. We undertake, if our Bid is accepted , to commence deliveries within () months and to complete delivery of all the items specified in the contract within () months calculated from the date of issue of your advance purchase order.
3. If our Bid is accepted, we will obtain the performance guarantees of a Scheduled Bank for a sum @ 5% of the contract value for the due performance of the contract.
4. We agree to abide by this Bid for a period of ----- days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Until a formal Purchase Order of Contract is prepared and executed, this Bid together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.
6. Bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.
7. We understand that you are not bound to accept the lowest or any bid, you may receive.

Dated this day of 2011

Name and Signature -----

In the capacity of -----

Duly authorised to sign the bid for and on behalf of

witness

Address



SECTION VII PART-II PRICE SCHEDULE FOR INDEGENOUS ITEMS (A)- Year-I

Sl.No	Unit	Total Quantity	Ex-factory Price(Basic Unit Price Exclusive of all levies and charges)	Excise Duty		Sales Tax		Freight, Forwarding, Packaging & Inland charges		Other Levies & Charges if any (4+6+8+10+11)	Price per Unit Price (all Inclusive) (12)	Duties and Taxes CENVAT able on Unit Price (13)	Unit Price Excluding Duties & Taxes CENVAT able(12-13)	Total Price Inclusive of all levies and charges Excluding Duties and Taxes (3*14)	Discount offered, if any. (16)	Total Discounted Price Excluding duties & taxes CENVAT able (15-16)	Excise Duty Tariff Head	Import Content	Percentage (%) of Customs Duty	Customs Tariff Head
				% (5)	Amount (6)	% (7)	Amount (8)	% (9)	Amount (10)											
(1)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1																				
1.1																				
a)	Nos	30																		
b)	Nos	30																		
c)	Nos	600																		
1.2																				
a)	Nos	70																		
b)	Nos	70																		
c)	Nos	1400																		
1.3	Nos	100																		
1.4	Nos	1																		
1.5	Nos	1																		
1.6	Nos	1																		
1.7	Nos	1																		
1.8	Nos	100																		
1.9	Nos	100																		

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SECTION VII PART-II PRICE SCHEDULE FOR IMPORTED ITEMS (B)- Year-I

Sl.No	Unit	Total Quantity	Ex-factory Price(Basic Unit Price Exclusive of all levies and charges)	Excise Duty		Sales Tax		Freight, Forwarding, Packaging & Inland charges		Other Levies & Charges if any	Price per Unit Price (all Inclusive) (4+6+8+10+11)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(12-13)	Total Price Inclusive of all levies and charges Excluding Duties and Taxes (3*14)	Discount offered, if any.	Total Discounted Price Excluding duties & taxes CENVAT able (15-16)	Excise Duty Tariff Head	Import Content	Percentage (%) of Customs Duty	Customs Tariff Head	
				% (5)	Amount (6)	% (7)	Amount (8)	% (9)	Amount (10)												(11)
1		(3)	(2)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1.1																					
a)	Nos	30																			
b)	Nos	30																			
c)	Nos	600																			
1.2																					
a)	Nos	70																			
b)	Nos	70																			
c)	Nos	1400																			
1.3																					
1.4																					
1.5																					
1.6																					
1.7																					
1.8																					
1.9	Nos	100																			

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**SECTION VII PART-II PRICE SCHEDULE FOR
INSTALLATION AND COMMISSIONING (C) -Year-I**

Sl.No	Item Description	Unit	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other fees, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	CENVAT able(9-10)	Total Charges(3+11)	Remarks
				(5)	(6)	(7)	(8)	(9)	(10)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
1	Trenching & PLB pipe laying and leading into the room	mtr	700000											
2	24 F OFC Blowing	mtr	750000											
3	24 F OF Cable splicing of UJC	Nos	375											
4	Clamping the leading in OFC through flexible PVC upto WSC, WSC installation, splicing, extending 24F patch cords to FDF through flexible pipe arranging neatly and extension to the switches, patching other fibers.	Job	1200											
5	Installation and commissioning Router-Type-A along with Patch panel	Job	30											
6	Installation and commissioning Firewall-Type-A	Job	30											
7	Installation and commissioning Layer-2 Ethernet Switch along with Patch panel	Job	600											
8	Installation and commissioning Router +Firewall-Type-B along with Patch panel	Job	70											
9	Installation and commissioning Layer-3 Ethernet Switch along with Patch panel	Job	70											
10	Installation and commissioning Edge (Layer-2 Ethernet) Switch(24 Ports) along with Patch panel	Job	1400											
11	Installation and commissioning of eMS L-1 quantity	Job	1											
12	Installation and commissioning of eMS L-2 quantity	Job	1											
13	Installation & Commissioning of IO's	Nos	25000											
14	Fixing of PVC conduit	mtr	900000											
15	Installation of UTP cabling through conduit	mtr	900000											
16	Rack for the Router, Switch etc at the university central location	Nos	100											

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SECTION VII PART-II PRICE SCHEDULE FOR AMC (D)-Year-I

Sl.No	Item Description	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other levies, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(9-10)	Total Charges(3*11)	Remarks
			(3)	(4)	(5)	(6)	(7)	(8)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
Total AMC Charges (after 2 years warranty)													
1	For Year-3 Actual AMC Charges												
2	For Year-4 Actual AMC Charges												
3	For Year-5 Actual AMC Charges												
4	Total Actual AMC Charges for 3 to 5 years												
NPV Charges calculated													
5	For Year-3 NPV=Column-10 of year-3/1.12^3												
6	For Year-4 NPV=Column-10 of year-4/1.12^4												
7	For Year-5 NPV=Column-10 of year-5/1.12^5												
8	NPV Total at Column-10 for Year-3 to 5												

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SECTION VII PART-II PRICE SCHEDULE FOR Facility Management Charges (E)-Year-I

Sl.No	Item Description	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other levies, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(9-10)	Total Charges(3+11)	Remarks
			(4)	(5)	(6)	(7)	(8)	(9)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
Total facility Management Charges (after commissioning of equipment)													
1	For Year-1 Actual facility Mangament Charges	As per facility ammangement Details											
2	For Year-2 Actual facility Mangament Charges	As per facility ammangement Details											
3	For Year-3 Actual facility Mangament Charges	As per facility ammangement Details											
4	For Year-4 Actual facility Mangament Charges	As per facility ammangement Details											
5	For Year-5 Actual facility Mangament Charges	As per facility ammangement Details											
6	Total for Facility Management Charges for 1 to 5 years	As per facility ammangement Details											
NPV Charges calculated													
7	For Year-1 NPV=Column-10 of year-1/1.12^1	As per facility ammangement Details											
8	For Year-2 NPV=Column-10 of year-2/1.12^2	As per facility ammangement Details											
9	For Year-3 NPV=Column-10 of year-3/1.12^3	As per facility ammangement Details											
10	For Year-4 NPV=Column-10 of year-4/1.12^4	As per facility ammangement Details											
11	For Year-5 NPV=Column-10 of year-5/1.12^5	As per facility ammangement Details											
12	NPV Total at Column-10 for Year-1 to 5	As per facility ammangement Details											

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SECTION VII PART-II PRICE SCHEDULE FOR INDEGENOUS ITEMS (A)- Year-II

Sl.No	Unit	Total Quantity	Ex-factory Price(Basic Unit Price Exclusive of all levies and charges)	Excise Duty		Sales Tax		Freight, Forwarding, Packaging & Inland charges		Other Levies & Charges if any	Price per Unit Price (all Inclusive) (4+6+8+10+11)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(12-13)	Total Price Inclusive of all levies and charges (3*14)	Discount offered, if any.	Total Discounted Price Excluding duties & taxes CENVAT able (15-16)	Excise Duty Tariff Head	Import Content	Percentage (%) of Customs Duty	Customs Tariff Head	
				%	Amount	%	Amount	%	Amount												%
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
1																					
1.1	Centralized Equipment																				
	Requirement for Nodal Universities																				
a)	Router- Type-A	Nos	40																		
b)	Firewall- Type-A	Nos	40																		
c)	Layer-2 Ethernet Switch	Nos	800																		
1.2	Requirement for Other Universities																				
a)	Router +Firewall-Type-B	Nos	110																		
b)	Layer-3 Ethernet Switch	Nos	110																		
c)	Edge (Layer-2 Ethernet) Switch(24 Ports)	Nos	2200																		
1.3	UPS for the Core equipment (Online with Four hour backup)	Nos	150																		
1.4	Desktop for facility management H/W & SW	Nos	150																		
1.5	Rack for the Router, Switch etc at the university central location	Nos	150																		

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SECTION VII PART-II PRICE SCHEDULE FOR IMPORTED ITEMS (B)- Year-II

Sl.No	Unit	Total Quantity	Ex-factory Price(Basic Unit Price Exclusive of all levies and charges)	Excise Duty		Sales Tax		Freight, Forwarding, Packaging & Inland charges		Other Levies & Charges if any (4+6+8+10+11)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(12-13)	Total Price Inclusive of all levies and charges Excluding Duties and Taxes (3*14)	Discount offered, if any.	Total Discounted Price Excluding duties & taxes CENVAT able (15-16)	Excise Duty Tariff Head	Import Content	Percentage (%) of Customs Duty	Customs Tariff Head	
				% (5)	Amount (6)	% (7)	Amount (8)	% (9)	Amount (10)											(11)
1		(3)	(4)																	
1.1																				
a)	Router-Type-A	Nos 40																		
b)	Firewall-Type-A	Nos 40																		
c)	Layer-2 Ethernet Switch	Nos 800																		
1.2																				
a)	Router +Firewall-Type-B	Nos 110																		
b)	Layer-3 Ethernet Switch	Nos 110																		
c)	Edge (Layer-2 Ethernet) Switch(24 Ports)	Nos 2200																		
1.3	UPS for the Core equipment (Online with Four hour backup)	Nos 150																		
1.4	Desktop for facility management H/W & SW	Nos 150																		
1.5	Rack for the Router, Switch etc at the university central location	Nos 150																		

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**SECTION VII PART-II PRICE SCHEDULE FOR
INSTALLATION AND COMMISSIONING (C) - Year-
II**

Sl.No	Item Description	Unit	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other fees, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(9-10)	Total Charges(3+11)	Remarks
				(5)	(6)	(7)	(8)	(9)	(10)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
1	Trenching & PLB pipe laying and leading into the room	mtr	1050000											
2	24 F OFC Blowing	mtr	1125000											
3	24 F OF Cable splicing at UJC	Nos	565											
4	Clamping the leading in OFC through flexible PVC upto WSC. WSC installation, splicing, extending 24F patch cords to FDF through flexible pipe arranging neatly and extension to the switches, patching other fibers	Job	1800											
5	Installation and commissioning Router-Type-A along with Patch panel	Job	40											
6	Installation and commissioning Firewall-Type-A	Job	40											
7	Installation and commissioning Layer-2 Ethernet Switch along with Patch panel	Job	800											
8	Installation and commissioning Router +Firewall-Type-B along with Patch panel	Job	110											
9	Installation and commissioning Layer-3 Ethernet Switch along with Patch panel	Job	110											
10	Installation and commissioning Edge (Layer-2 Ethernet) Switch(24 Ports) along with Patch panel	Job	2200											
11	Installation & Commissioning of IO's	Nos	37500											
12	Fixing of PVC conduit	mtr	1350000											
13	Installation of UTP cabling through conduit	mtr	1350000											
14	Rack for the Router, Switch etc at the university central location	Nos	150											
	Total I&C													

READ, UNDERSTOOD AND COMPLIED WITH

SIGNATURE OF THE BIDDER



SECTION VII PART-II PRICE SCHEDULE FOR AMC (D)-Year-II

Sl.No	Item Description	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other levies, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(9-10)	Total Charges(3*11)	Remarks
			(3)	(4)	(5)	(6)	(7)	(8)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
Total AMC Charges (after 2 years warranty)													
1	For Year-3 Actual AMC Charges												
2	For Year-4 Actual AMC Charges												
3	For Year-5 Actual AMC Charges												
4	Total Actual AMC Charges for 3 to 5 years												
NPV Charges calculated													
5	For Year-3 NPV=Column-10 of year-3/1.12^4												
6	For Year-4 NPV=Column-10 of year-4/1.12^5												
7	For Year-5 NPV=Column-10 of year-5/1.12^6												
8	NPV Total at Column-10 for Year-3 to 5												

READ, UNDERSTOOD AND COMPLIED WITH

SIGNATURE OF THE BIDDER



SECTION VII PART-II PRICE SCHEDULE FOR Facility Management Charges (E)-Year-II

Sl.No	Item Description	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other levies, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(9-10)	Total Charges(3+11)	Remarks
			(4)	(5)	(6)	(7)	(8)	(9)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
Total facility Management Charges (after commissioning of equipment)													
1	For Year-1 Actual facility Mangament Charges	As per facility ammangement Details											
2	For Year-2 Actual facility Mangament Charges												
3	For Year-3 Actual facility Mangament Charges												
4	For Year-4 Actual facility Mangament Charges												
5	For Year-5 Actual facility Mangament Charges												
6	Total Actual Facility Management Charges for 1 to 5 years												
NPV Charges calculated													
7	For Year-1 NPV=Column-10 of year-1/1.12^2												
8	For Year-2 NPV=Column-10 of year-2/1.12^3												
9	For Year-3 NPV=Column-10 of year-3/1.12^4												
10	For Year-4 NPV=Column-10 of year-4/1.12^5												
11	For Year-5 NPV=Column-10 of year-5/1.12^6												
12	NPV Total at Column-10 for Year-1 to 5												

READ, UNDERSTOOD AND COMPLIED WITH

SIGNATURE OF THE BIDDER



SECTION VII PART-II PRICE SCHEDULE FOR INDEGENOUS ITEMS (A)- Year-III

Sl.No	Unit	Total Quantity	Ex-factory Price(Basic Unit Price Exclusive of all levies and charges)		Excise Duty		Sales Tax		Freight, Forwarding, Packaging & Inland charges		Other Levies & Charges if any (4+6+8+10+11)	Duties and Taxes CENVAT able on Unit Price (12-13)	Unit Price Excluding Duties & Taxes CENVAT able(12-13)	Total Price Inclusive of all levies and charges (3*14) Excluding Duties and Taxes (3*14)	Discount offered, if any.	Total Discounted Price Excluding duties & taxes CENVAT able (15-16)	Excise Duty Tariff Head	Import Content	Percentage (%) of Customs Duty	Customs Tariff Head	
			%	Amount	%	Amount	%	Amount	%	Amount											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
1	Centralized Equipment																				
1.1	Requiem for Nodal Universities																				
a)	Router- Type-A	Nos	30																		
b)	Firewall- Type-A	Nos	30																		
c)	Layer-2 Ethernet Switch	Nos	600																		
1.2	Requiem for Other Universities																				
a)	Router +Firewall-Type-B	Nos	120																		
b)	Layer-3 Ethernet Switch	Nos	120																		
c)	Edge (Layer-2 Ethernet) Switch(24 Ports)	Nos	2400																		
1.3	UPS for the Core equipment (Online with Four hour backup)	Nos	150																		
1.4	Desktop for facility management H/W & S/W	Nos	150																		
1.5	Rack for the Router, Switch etc at the university central location	Nos	150																		

READ, UNDERSTOOD AND COMPLIED WITH

SIGNATURE OF THE BIDDER



**SECTION VII PART-II PRICE SCHEDULE FOR IMPORTED ITEMS (B)-
Year-III**

Sl.No	Unit	Total Quantity	Ex-factory Price(Basic Unit Price Exclusive of all levies and charges)		Excise Duty		Sales Tax		Freight, Forwarding, Packaging & Inland charges		Other Levies & Charges if any	Price per Unit Price (all Inclusive) (4+6+8+10+11)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(12-13)	Total Price Inclusive of all levies and charges Excluding Duties and Taxes (3*14)	Discount offered, if any.	Total Discounted Price Excluding duties & taxes CENVAT able (15-16)	Excise Duty Tariff Head	Import Content	Percentage (%) of Customs Duty	Customs Tariff Head
			%	Amount	%	Amount	%	Amount	%	Amount											
(1)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
1																					
1.1																					
a)	Router-Type-A	Nos	30																		
b)	Firewall-Type-A	Nos	30																		
c)	Layer-2 Ethernet Switch	Nos	600																		
1.2																					
a)	Router +Firewall-Type-B	Nos	120																		
b)	Layer-3 Ethernet Switch	Nos	120																		
c)	Edge (Layer-2 Ethernet) Switch(24 Ports)	Nos	2400																		
1.3	UPS for the Core equipment (Online with Four hour backup)	Nos	150																		
1.4	Desktop for facility management H/W & S/W	Nos	150																		
1.5	Rack for the Router, Switch etc at the university central location	Nos	150																		

READ, UNDERSTOOD AND COMPLIED WITH

SIGNATURE OF THE BIDDER



SECTION VII PART-II PRICE SCHEDULE FOR INSTALLATION AND COMMISSIONING (C) -Year-III

Sl.No	Item Description	Unit	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other fees, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(9-10)	Total Charges(3*11)	Remarks
				(5)	(6)	(7)	(8)	(9)	(10)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
1	Trenching & PLB pipe laying and leading into the room	mt	1050000											
2	24 F OFC Blowing	mt	1125000											
3	24 F OF Cable splicing at UJC	Nos	565											
4	Clamping the leading in OFC through flexible PVC upto WSC, WSC installation, splicing, extending 24F patch cords to FDF through flexible pipe arranging neatly and extension to the switches, patching other fibers	Job	1800											
5	Installation and commissioning Router-Type-A along with Patch panel	Job	30											
6	Installation and commissioning Firewall-Type-A	Job	30											
7	Installation and commissioning Layer-2 Ethernet Switch along with Patch panel	Job	600											
8	Installation and commissioning Router +Firewall-Type-B along with Patch panel	Job	120											
9	Installation and commissioning Layer-3 Ethernet Switch along with Patch panel	Job	120											
10	Installation and commissioning Edge (Layer-2 Ethernet) Switch(24 Ports) along with Patch panel	Job	2400											
11	Installation & Commissioning of IO's	Nos	37500											
12	Fixing of PVC conduit	mt	1350000											
13	Installation of UTP cabling through conduit	mt	1350000											
14	Rack for the Router, Switch etc at the university central location	Nos	150											
	Total I&C													

AMC CHARGES DETAILS-Year-III

READ, UNDERSTOOD AND COMPLIED WITH

SIGNATURE OF THE BIDDER



S/No	Item Description	Unit	Item per Unit	Total Quantity	AMC charges for the total quantity		
					Year-1	Year-2	Year-3
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Router-Type-A	Nos	1	30			
2	Firewall-Type-A	Nos	1	30			
3	Layer-2 Ethernet Switch	Nos	1	3000			
4	Router +Firewall-Type-B	Nos	1	120			
5	Layer-3 Ethernet Switch	Nos	1	120			
6	UPS for the Core equipment (Online with Four hour backup)	Nos	1	150			
7	Desktop for facility management HW & SW	Nos	1	150			
Total charges quoted							



SECTION VII PART-II PRICE SCHEDULE FOR AMC (D)-Year-III

Sl.No	Item Description	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other levies, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(9-10)	Total Charges(3*11)	Remarks
			(4)	(5)	(6)	(7)	(8)	(9)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
Total AMC Charges (after 2 years warranty)													
1	For Year-3 Actual AMC Charges												
2	For Year-4 Actual AMC Charges												
3	For Year-5 Actual AMC Charges												
6	Total Actual AMC Charges for 3 to 5 years												
NPV Charges calculated													
7	For Year-3 NPV=Column-10 of year-3/1.12^5												
8	For Year-4 NPV=Column-10 of year-4/1.12^6												
9	For Year-5 NPV=Column-10 of year-5/1.12^7												
10	NPV Total at Column-10 for Year-3 to 5												



SECTION VII PART-II PRICE SCHEDULE FOR Facility Management Charges (E)-Year-III

Sl.No	Item Description	Total Quantity	Basic Charges per quantity		Taxes applicable for column-4		Any other levies, if any, for column-4		Unit charge per quantity(4+6+8)	Duties and Taxes CENVAT able on Unit Price	Unit Price Excluding Duties & Taxes CENVAT able(9-10)	Total Charges(3*11)	Remarks
			(4)	(5)	(6)	(7)	(8)	(9)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
Total facility Management Charges (after commissioning of equipment)													
1	For Year-1 Actual facility Mangament Charges												
2	For Year-2 Actual facility Mangament Charges												
3	For Year-3 Actual facility Mangament Charges												
4	For Year-4 Actual facility Mangament Charges												
5	For Year-5 Actual facility Mangament Charges												
6	Total Actual Facility Management Charges for 1 to 5 years												
NPV Charges calculated													
7	For Year-1 NPV=Column-10 of year-1/1.12^3												
8	For Year-2 NPV=Column-10 of year-2/1.12^4												
9	For Year-3 NPV=Column-10 of year-3/1.12^5												
10	For Year-4 NPV=Column-10 of year-4/1.12^6												
11	For Year-5 NPV=Column-10 of year-5/1.12^7												
12	NPV Total at Column-10 for Year-1 to 5												



SECTION VIII

BID SECURITY FORM

Whereas (hereinafter called "the Bidder") has submitted its bid dated.....for the supply of vide Tender No..... dated..... KNOW ALL MEN by these presents that WE OF having our registered office at(hereinafter called "the Bank") are bound unto Bharat Sanchar Nigam Limited (hereinafter called "the Purchaser") in the sum of Rs..... for which payment will and truly to be made of the said Purchaser, the Bank binds itself, its successors and assigns by these present.

THE CONDITIONS of the obligation are :

1. If the Bidder withdraws his bid during the period of bid validity specified by the Bidder on the Bid form or
2. If the Bidder, having been notified of the acceptance of his bid by the Purchaser during the period of bid validity
 - (a) **fails or refuses to execute the Contract, if required; or**
 - (b) **fails or refuses to furnish the Performance Security, in accordance with the instructions to Bidders.**

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

This guarantee will remain in force as specified in clauses 12 and 28.2 of section II of the Bid Document upto and including THIRTY (30) days after the Period of bid validity and any demand in respect thereof should reach the Bank not later than the specified date/dates.

Signature of the Bank Authority.

Name

Signed in Capacity of

Name & Signature of witness

Full address of Branch

Address of witness

Tel No. of Branch

Fax No. of Branch



SECTION IX

PERFORMANCE SECURITY GUARANTEE BOND

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

2. We (name of the bank) _____ do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the BSNL by reason of breach by the said contractor(s)' of any of the terms or conditions contained in the said Agreement or by reason of the contractors(s)' failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of BSNL in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.

3. We under take to pay to the BSNL any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.

4. We(name of the bank) _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the BSNL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____(office/Department) BSNL certifies that the terms and conditions of the said Agreement have been fully or properly carried out by the said contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of 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)



SECTION X

LETTER OF AUTHORISATION FOR ATTENDING BID OPENING

(To reach AGM (MM) O/o CGMP Chennai before date of bid opening)

To

The AGM (MM),
O/o CGM, STP,
Chennai-28

Subject: Authorisation for attending bid opening on _____(date) in the Tender of _____.

Following persons are hereby authorised to attend the bid opening for the tender mentioned above on behalf of _____ (Bidder) in order of preference given below.

Order of Preference	Name	Specimen Signatures
I.		
II.		
Alternate Representative		

Signatures of bidder

Or

Officer authorized to sign the bid Documents on behalf of the bidder.

- Note :
1. Maximum of two representatives will be permitted to attend bid opening. In cases where it is restricted to one, first preference will be allowed. Alternate representative will be permitted when regular representatives are not able to attend.
 2. Permission for entry to the hall where bids are opened, may be refused in case authorization as prescribed above is not recovered.



SECTION XI

(Undertaking to be given by All technology Partners)

**To:
AGM (MM)
O/o CGM STP
Chennai**

Subject: UNIVERSITY LAN implementation for BSNL – Undertaking by Technology Partner

In compliance to clause _____ of the tender No. _____ dated: _____, we undertake the following:

(1) The Bidder M/s <_____> and the Technology partner <M/s _____> shall be liable for due performance of the contract severally, whereas the liability of the technology partner shall be for the obligations in the contract for products and / or services as defined in the agreement signed between the Bidder and the Technology partner <_____> and in accordance with the proposal submitted by the technology partner <_____> to the Bidder.

[Bidder's Signature]

[Technology Partner's Signature]

**ANNEXURE - 1****FIBER OPTIC CABLING IN UNIVERSITY CAMPUSES**

This elaborates the procedure for supply and commissioning of OF cable in the campuses of universities for LAN connectivity.

SCOPE IN GENERAL:

The job mainly involves survey of the route(s), obtaining permissions from the respective university authorities for laying the OFC in the university premises, consolidating the requirement of PLB pipes, OF cable and accessories, project the same campus wise to BSNL and upon placement of work order procure & transport them to the site and complete the OF cable commissioning process as per the BSNL standards laid down below. All the material used shall be as per specifications given below.

Sl.NO	Item	G.R.No.	Remarks
1	40/33 mm PLB of 1km length duct and accessories	GR/CDS-08/02. NOV'2004 with latest amendments	PLB pipe shall have markings: purchaser name (BSNL), length in meters at regular intervals
2	PLB accessories a. Push fit Couplers b. End Plugs c. Cable sealing plug d. End caps	GR/CDS-08/02. NOV'2004 with latest amendments	
3	24F OF cable	GR/OFC-01/04. SEP 2003 with latest amendments	24F of cable shall have markings: purchaser name (BSNL), length in meters at regular intervals
4	24F OF cable accessories a. 10m FC-LC patch cards b. 10 m SC pigtails c. Green pipe/flexible pipe of required diameter for fixing CT box	GR/OFC-01/04. SEP 2003 with latest amendments	a) Duplex, 9/125 micron SM fibre, SC connector at one end and LC connector at the other end, length of 10 feet with factory mount mono type connector at both end
5	Wall Splicing Closure (WSC).		For cable termination
6	24F SJC/BJC		for Jointing of OF cable
7	48F FDF along with 'o' db connectors of Mono type		

The bidder shall specify the manufacturer of the PLB pipes, OF cable & accessories to BSNL and submit consent letter from the supplying firm(s) along with supporting documents for eligibility. Quality policy of the said firm(s) shall be furnished.

Part - I**A) Trenching & PLB Laying:**

The bidder shall adhere to the following practices

- 1) Trenching should be done as per the marking given by the site incharge in consultation with the university authorities.
- 2) Obtain Right of way / way leave permission from Road/ Railway/ Municipal Corporation/ Local bodies/ Police/ other authorities etc.
- 3) Avoid using machinery for trenching in the university campuses. Manual trenching is desirable.
- 4) Bidder shall comply with labor act in force in respect of labor engaged for trenching, pipe laying, and cable blowing. Bidder shall remain principle employer for the labor so engaged & BSNL shall in no way be responsible for the omissions/commissions made by the bidder on this account.
- 5) Excavation of trench up to a depth of 100 cms according to construction specifications inside the university campus and other public roads.
- 6) Soil shall be filled up to a height of 250mm above the cable and covered with warning tape. The remaining height of the trench shall be filled with soil.



- 7) If the laying has to be done outside the campus along/across the public roads, protection with GI/DWC has to be provided at depth of 100cm.
- 8) Laying of PLB pipes/coils coupled by PLB push fit couplers in excavated trenches and also on bridges and culverts.
- 9) Providing mechanical protection by R.C.C. Pipes/GI Pipes and /or concreting / chambering according to construction specifications, wherever depth of the trench is less than 100cm as below. Bidder shall however seek & obtain separate approval from site incharge of BSNL for all such cases.
- | | |
|-------------------------------|--|
| a) Between 90cm – 100cm ----- | RCC Full round pipes |
| b) Between 90cm – 100cm ----- | GI pipe when there is vehicular traffic expected over the trench |
| c) Between 60cm – 90cm ----- | CC (20X30Cm) over GI |
- 10) Excavated trenches should be back filled and neatly rammed to its original position.
- 11) Sub-ducting shall be done in existing telecom ducts/ troughs (RCC) wherever required.
- 12) Duct integrity test shall be done immediately after completion of the pipe laying work as a prerequisite before taking up the cable blowing work.
- 13) The cable shall be led in, to the exchange or desired site like server room in the university campus etc., maintaining the aesthetics of the site with proper usage of latest LAN cabling technologies.
- 14) The joint chambers are to be provided at every joint to keep the O.F.C. joint well protected and also to keep extra length of cable, which may be required to attend the faults at a later date. Jointing chambers are to be prepared normally at a distance of every 2 kms. Actual location of jointing chamber depends on length of cable drum and appropriateness of location for carrying out jointing work. The jointing chambers are constructed either of brick masonry work at site & pre cast RCC slabs for covers or by way of fixing pre-cast RCC chambers and covers.
- 15) For fixing pre cast RCC chamber, first a pit of size 2m x 2m x 1.8 m depth is required to be dug. Pre cast RCC chamber consists of three parts (i) round base plate in two half of 140 cm dia and 5 cm thickness (ii) full round RCC joint chamber with dia of 120 cm and height of 50 cm and thickness of 5 cm (iii) round top cover will be in two halves with dia of 140 cm and thickness of 5 cm having one handle for each half in center and word 'OFC-NME' engraved on it. The full round RCC chamber may be of different height or in two halves, as per the requirement of local conditions. Pre cast RCC chamber (which is coming in part) should be placed in the pit and parts should be fixed by applying cement mortar. After, fixing the pre cast RCC joint chamber, the joint chamber is filled with clean sand before closing. Lastly, back filling of joint chamber pit with excavated soil should be carried out up to normal ground level and compacted.
- 16) Cable shall be blown after pipe laying is completed.
- 17) The route/joint indicators made of pre-cast RCC shall be supplied by the bidder and shall have the following dimensions approx : Base - 250 mm x 150 mm; Top - 200 mm x 75 mm; Height- 1250 mm

Part - II

A) 24F metal free Optical fiber cable Laying:

The Optical Fibre Cable shall be laid through PLB Pipes buried at a depth of 165 cms. The steps involved in OF Cable construction are as under:

- 1) Before commencing the cable blowing, Duct Integrity Test should be conducted for duct length exceeding 2km.
- 2) RCC joint chamber shall be constructed at every 2 kms/ at each jointing point and also at each termination point.
- 3) Joint pits should be closed, after completion of cable blowing and splicing works.
- 4) Supply of Jointing kits (24F SJC/BJC) and splicing of OF cable has to be carried out by the tenderer.
- 5) Supply of wall mountable closures (24F OFC) and terminations have to be carried out by the tenderer.
- 6) The associated jobs involved in the above work are as follows.
 - a) Keeping 30mtr. Coil in every Chamber
 - b) Construction and filling the jointing chamber with sand up to the brim of the RCC Chamber once cable is blown.



- c) If any coupler is not connected properly, they should be re-connected at the coupling points, if required the coupling points are to be dug opened for this purpose.
- d) Cable name tag has to be tied to the cable in all the Man holes in the route. Cable name tag will be supplied by vendor.
- e) The work may vary from 100 mts to 2000 Mtrs or more at different locations. The work shall be awarded as and when required by BSNL.
- f) Work has to be carried out under the supervision of site incharge (SDE / representative of the Department).
- g) The existing cable networks in the campus should not be disturbed. Utmost care should be taken to protect the other installations in the route. Necessary warning boards should be displayed at the work site.
- h) The bidder is responsible for the safety of any of the assets of the university, while executing the job of this tender. In case of any damages, penalties leviable shall be payable by the bidder.

B) TESTING:

1. Cable testing from end to end i.e. FDF to FDF termination to be taken up and the results to be submitted along with OTDR traces.
2. Any losses beyond 0.3db/km on average may require re doing work till the desired results are achieved.



ANNEXURE – II
Tentative List of Universities

Sl. No	Name of Universities	Name of State
1	Acharya N.G. Ranga Agricultural University, Hyderabad -500030. (State University)	Andhra Pradesh
2	Acharya Nagarjuna University, Nagarjuna Nagar, Guntur-522510. (State University)	Andhra Pradesh
3	Andhra Pradesh University of Health Sciences, Vijayawada-520008. (State University)	Andhra Pradesh
4	Andhra University, Vishakhapatnam-530003. (State University)	Andhra Pradesh
5	Dr. B.R. Ambedkar Open University, Jubilee Hills, Hyderabad-500033. (State University)	Andhra Pradesh
6	Dravidian University, Kuppam-517425. (State University)	Andhra Pradesh
7	Gandhi Institute of Technology and management (GITAM), Gandhi Nagar Campus, Rushikonda, Visakhapatnam-530045. (Deemed University)	Andhra Pradesh
8	Hyderabad University, Hyderabad-500046. (Central University)	Andhra Pradesh
9	ICFAI Foundation for Higher Education, Hyderabad, Andhra Pradesh. (Deemed University)	Andhra Pradesh
10	International Institute of Information Technology, Hyderabad-500072. (State University)	Andhra Pradesh
11	Jawaharlal Nehru Technological University, Anantpur, Andhra Pradesh. (State University)	Andhra Pradesh
12	Jawaharlal Nehru Technological University, Hyderabad-500072. (State University)	Andhra Pradesh
13	Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh. (State University)	Andhra Pradesh
14	Kakatiya University, Warangal-506009. (State University)	Andhra Pradesh
15	Koneru Lakshmaiah Education Foundation, Greengields, Kunchabnapli Post, Vaddeswaram, Guntur District, Andhra Pradesh (Deemed University)	Andhra Pradesh
16	Mahatma Gandhi University, Panagal, Nalgonda-500803, Andhra Pradesh. (State University)	Andhra Pradesh
17	Maulana Azad National Urdu University, Hyderabad-500803. (Central University)	Andhra Pradesh
18	National Academy of Legal Studies & Research University, Hyderabad-500027. (State University)	Andhra Pradesh
19	Osmania University, Hyderabad-500007. (State University)	Andhra Pradesh
20	Potti Sreeramulu Telugu University, Hyderabad-500004. (State University)	Andhra Pradesh



21	Rashtriya Sanskrit Vidyapeeth, Tirupati-517507. (Deemed University) (State University)	Andhra Pradesh
22	Sri Krishnadevaraya University, Anantapur -515003. (State University)	Andhra Pradesh
23	Sri Padmavati Mahila Vishwavidyalayam, Tirupati-517507. (State University)	Andhra Pradesh
24	Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, Anantapur-515134. (Deemed University)	Andhra Pradesh
25	Sri Venkateswara University, Tirupati-517507. (State University)	Andhra Pradesh
26	Sri Venkateswara Vedic University, Purandaradas Complex, Prakasam Road, Tirupati. (State University)	Andhra Pradesh
27	The English and Foreign Languages University, Hyderabad-500007. (Central University)	Andhra Pradesh
28	Vignans Foundation for Science, Technology and Research, Vadlmaudi, Guntur District, Andhra Pradesh. (Deemed University)	Andhra Pradesh
29	Yogi Vemana University, Vemanapuram, Kadapa-516003, AP. (State University)	Andhra Pradesh
30	Rajiv Gandhi University of Knowledge Technologies	Andhra Pradesh
31	NIT Warangal	ANDHRAPRADESH
32	North Eastern Regional Institute of Science & Technology, Nirjuli, Itanagar, Arunachal Pradesh-791109. (Deemed University)	ARUNACHAL PRADESH
33	Rajiv Gandhi University, Itanagar-79112. (Central University)	ARUNACHAL PRADESH
34	Assam Agricultural University, Jorhat- 785013 (State University)	ASSAM
35	Assam University, Silchar-788011 (Central University)	ASSAM
36	Dibrugarh University, Dibrugarh-78004 (State University)	ASSAM
37	Gauhati University, Guwahati-781014 (State University)	ASSAM
38	Tezpur University, Tezpur-784028 (Central University)	ASSAM
39	Guwahati University Campus, Kokrajhar	ASSAM
40	NIT Silchar	ASSAM
41	Babasaheb Bhimrao Ambedkar Bihar University, Muzaffarpur-842001 (State University)	BIHAR
42	Bhupendra Narayan Mandal University, Madhepura-852113 (State University)	BIHAR
43	Bihar Yoga Bharati, Munger-811201. (Deemed University)	BIHAR
44	Chanakya National Law University, A.N. Sinha Institute of Social Studies Campus, Gandhi Maidan, Patna-800001 (State University)	BIHAR
45	Central University of Bihar, Phaneeshwarnath Renu, Hindi Bhawan, Chhajjubagh, Patna-1, (Central University)	BIHAR

READ, UNDERSTOOD AND COMPLIED WITH



46	K.S. Darbhanag Sanskrit Vishwavidyalaya, Darbhanga-846008(State University)	BIHAR
47	Lalit Narayan Mithila University, Darbhanga-846008(State University)	BIHAR
48	MagadhUniversity, Bodh Gaya-824234(State University)	BIHAR
49	Maulana Mazharul Haque Arabic & Persian University, 3 Polo Road, Patna-800001 (Bihar) (State University)	BIHAR
50	Nalanda Open University, Patna-800001(State University) *	BIHAR
51	Patna University, Patna-800005(State University)	BIHAR
52	Rajendra Agricultural University, Samastipur-848125(State University)	BIHAR
53	T.M. University, Bhagalpur-812007(State University)	BIHAR
54	Veer Kunwar Singh University, Arrah-802301. (State University)	BIHAR
55	NIT Patna	BIHAR
56	Chhattisgarh Swami vivekanand Technical University, Bhilai (Chhattisgarh) (State University)*	CHHATTISGARH
57	Guru Ghasidas Vishwavidyalaya, Bilaspur-495009 (Converted State University to Central University) (Central University)	CHHATTISGARH
58	Hidayatullah National Law University, Civil Lines, Raipur-492001. (State University)	CHHATTISGARH
59	Indira Gandhi Krishi Vishwavidyalaya, Raipur-492006(State University)	CHHATTISGARH
60	Indira Kala Sangeet Vishwavidyalaya, Khairagarh-491880. (State University)	CHHATTISGARH
61	Kushabhau Thakre Patrakarita Avam Jansanchar Vishwavidyalaya, Raipur (Chhattisgarh) (State University)	CHHATTISGARH
62	Pt. Ravishankar Shukla University,Raipur-492010(State University)	CHHATTISGARH
63	Pt. Sundarlal Sharma (Open) University, Bilaspur,Chhatisgarh (State University)	CHHATTISGARH
64	NIT Raipur	CHATTISGARH
65	Goa University, Goa -403206(State University)	GOA
66	Bhavnagar University, Bhavnagar-364002 (State University)	GUJARAT
67	Central University, of Gujarat, Plot No. 95/1, Sector2A, Gandhinagar-3820007 Gujarat (Central University).	GUJARAT
68	Central for Environmental Planning and technology University, University Road, Narvrangpura Ahemdabad-380009 (Gujarat)* (State University)	GUJARAT
69	Dhirubhai Ambani Institute of Information and communication Technology, Gandhinagar, Post Box No.4, Gandhinagar-382007. (Private University)*	GUJARAT



70	Dr. Babasaheb Ambedkar Open University, Ahmedabad-380003 (State University)*	GUJARAT
71	Gujarat Agricultural university, Sardar Krushinagar, Banaskantha-385506 (State University)	GUJARAT
72	Gujarat Ayurveda University, Jamnagar-361008. (State University)	GUJARAT
73	Gujarat National Law University, E-4 GIDC, Electronics, Gandhinagar-382028. (State University)	GUJARAT
74	Gujarat Technological University, JACPC Building, L.D.College of Engineering Campus, Navrangpura, ahmedabad, Gujarat. (State University)	GUJARAT
75	Gujarat University, Ahmedabad-380009(State University)	GUJARAT
76	Hemchandraacharya North Gujarat University, P.B. No. 21, University Road, Patan-384265(State University)	GUJARAT
77	Kadi Sarva Vishwavidyalaya, Srva Vidyalayam, CS-60, Jubilee Ground, Bhuj-Kachchh-370001.* (State University)	GUJARAT
78	Krantiguru shyamji Krishna Verma Kachchh University, CS-60, Jubilee Ground, Bhuj-Kachchh-370001.* (State University)	GUJARAT
79	Maharaja Sayajirao University of Baroda, Vadodara-390002(State University)	GUJARAT
80	Nirma University of Science & Technology, Sarkhej, Gandhinagar Highway, Village-Chharodi, Ahmedabad, Gujarat (Private University).*	GUJARAT
81	Sardar Patel University, Vallabh Vidhanagar-388120(State University)	GUJARAT
82	Saurashtra University, Rajkot-360005(State University)	GUJARAT
83	Shree Somnath Sanskrit University, Ta: Veraval, District Junagarh-360068 (Gujarat). (State University)*	GUJARAT
84	South Gujarat University, Surat-395007, (State University)	GUJARAT
85	Sumandeep Vidyapeeth, village Piparia, Taluka Waghodia, District Vadodara (Deemed University)	GUJARAT
86	NIT Surat	GUJARAT
87	Bhagat Phool Singh Mahila vishyavidyalaya, Khanpur Kalan Sonipat, Haryana. (State University)	HARYANA
88	Chaudhary Devi Lal University, Sirsa. (State University)	HARYANA
89	Choudhary Charan singh HaryanaAgricultural University, Hisar-125004(State University)	HARYANA
90	Deen Bandhu chhotu Ram University of Science & Technology, Murthal, Haryana (State University)	HARYANA
91	Guru Jambeshwar University of Science and Technology, Hisar-125001(State University)	HARYANA
92	Kurukshetra University, Kurukshetra-136119(State University)	HARYANA



93	Maharishi Dayanand University, Rohtak-124001(State University)	HARYANA
94	Maharishi Markandeshwar Education Trust,55, Model Town, Ambala city-134003, Haryana (Deemed University)	HARYANA
95	NIT Kurukshetra	HARYANA
96	Central University of Himanchal Pradesh (Central University)	HIMANCHAL PRADESH
97	Dr. Y.S. Parmar University of Horticulture & Forestry, Nauni-173230(State University)*	HIMANCHAL PRADESH
98	Chitkara University, HIMUDA Education Hub, Kallujhanda(Barotiwala), Distt. Solan-174103, Himachal Pradesh (State University)	HIMANCHAL PRADESH
99	Himachal Pradesh Agriculture University, Palampur-176062 (State University)	HIMANCHAL PRADESH
100	Himachal Pradesh University, Shimla-171005 (State University)	HIMANCHAL PRADESH
101	NIT Hamirpur	HIMACHAL PRADESH
102	Baba Ghulam Shah Badshah University, Rajouri Camp office, Bye- pass Road, Opp. Chennai Himmat, Jammu (State University)*.	JAMMU& KASHMIR
103	Central of University of Jammu & Kashmir, Qureshi Manzil, 50-Naseemabad, Saderbal, Srinagar -190006(Central University)	JAMMU& KASHMIR
104	Islamic University of Science & Technology University, University Avenue, awantipora, Pulwama-192122 (J&K) (State University)	JAMMU& KASHMIR
105	Jammu University, Jammu Tawi-180006(State University)	JAMMU& KASHMIR
106	Kashmir University, Srinagar-190006 (State University)	JAMMU& KASHMIR
107	Sher-e-Kashmir University of Agricultural Science & Technology, srinagar-191121(State University)	JAMMU& KASHMIR
108	Shri Mata Vaishno Devi University, Kakrayal P.O. Kakryal, Sist. Udhampur-182121, Jammu-180004. (State University)	JAMMU& KASHMIR
109	NIT Srinagar	JAMMU
110	Birla Institute of Technology, Mesra, Ranchi-835215.(Deemed University)	JHARKHAND
111	Birsa Agricultural University, Ranchi-834006(State University)	JHARKHAND
112	Central University of Jharkand, State Guest House, Ranchi-9, Jharkhand (Central University)	JHARKHAND
113	Ranchi University, Ranchi-834001(State University)	JHARKHAND



114	Sido Kanhu Murmu University, Dumka-814101(State University)	JHARKHAND
115	Vinoba Bhave University, Hazaribagh-825301(State University)	JHARKHAND
116	NIT Jamshedpur	JHARKAND
117	Bangalore University, Bangalore-560056(State University)	KARNATAKA
118	B.L.D.E. University, Bijapur, Karnataka (Deemed University)	KARNATAKA
119	Central University of Karnataka, 2 nd Floor, Karya Saudha, Gulbarga University,Gulbarga-585106 Karnataka (Central Univrsity)	KARNATAKA
120	Gulbarga University, Gulbarga-585106(State University)	KARNATAKA
121	International Institute of Information Technology, 26/c, Opp.Infosys (Gate-1), Electronic City, Hosur Road, Bangalore, 560100, Karnataka (Deemed University)	KARNATAKA
122	Jagadguru Sri Shivarathreeswara University, Jagadguru Dr. Sri Shivarathri Rajendra Circle, Ramanuja Road, Mysore-570004, Karnataka.(Deemed University)	KARNATAKA
123	Jain University, 91/2, Dr. A. N. Krishna Rao Road, V.V. Puram, Bangalore, Karnataka. (Deemed University)	KARNATAKA
124	Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur Campus, Banglore-560064.(Deemed University)	KARNATAKA
125	Karnataka State Open University, Mysore-570006 (State University)	KARNATAKA
126	Karnataka State Women University, Bijapur-580003(State University)	KARNATAKA
127	Karnataka University , Dharwad-580003(State University)	KARNATAKA
128	Kannada University, Hampi, Bellary District, Kamalapura-583276(State University)	KARNATAKA
129	Karnataka Veterinary, Animal & Fisheries Science University, Nandinagar, PB No. 6, Bidar-585401 (Karnataka) (State University)	KARNATAKA
130	Kuvempu University, Shankaraghatta-577451) (State University)	KARNATAKA
131	Mangalore University, Mangalore-574199) (State University)	KARNATAKA
132	Manipal Academy of Higher Education, Manipa-576104. (Deemed University)	KARNATAKA
133	Mysore University, Mysore-570005) (State University)	KARNATAKA
134	National Institute of Mental Health & Neuro Science, Bangalore-560029. (Deemed University)	KARNATAKA
135	National law School of India University, Bangalore-5600072) (State University)	KARNATAKA



136	NITTE University, Mangalore575003, Karnataka. (Deemed University)	KARNATAKA
137	Rajiv Gandhi University of Health Sciences, Bangalore-560041) (State University)*	KARNATAKA
138	Sri Devraj Urs Academy of Higher Education and Research, Tamaka, Kolar, Karnataka (Deemed University)	KARNATAKA
139	Sri Siddhartha Academy of Higher Education , Tumkur district-572102, Karnataka (Deemed University)	KARNATAKA
140	Swami Vivekananda Yoga Anusadhana Samsthana, Bangalore. (Deemed University)	KARNATAKA
141	Tumkur University, 1 st Floor, Dr B.R. Ambedkar Bhawan, M.G. Road, Tumkur-572101(State University)*	KARNATAKA
142	University of Agricultural Sciences, Bangalore-560065(State University)	KARNATAKA
143	Visveswaraiah Technological University, Belgaum-590010*(State University)	KARNATAKA
144	Yenepoya University, Mangalore, Karnataka(Deemed University)	KARNATAKA
145	Christ University, Bangalore	KARNATAKA
146	NIT Surathkal	KARNATAKA
147	Calicut University, Trichy Palary, Malapuram District, Kopzhikode-673635(State University)	KERALA
148	Cochin University of Science & Technology, Kochi-682022(State University)	KERALA
149	Kannur University, Kannur-670562(State University)	KERALA
150	Kerala Agricultural University, Thrissur-680656(State University)	KERALA
151	Kerala University, Thiruvananthapuram-695034(State University)	KERALA
152	Mahatma Gandhi University, Kottayam-686560(State University)	KERALA
153	NIT Calicut	KERALA
154	Awadesh Pratap Singh University, Rewa-486006(State University)	MADHYA PRADESH
155	Barkatullah University, Bhopal-462026(State University)	MADHYA PRADESH
156	Devi Ahilya Vishwavidyalaya, Indore -452001(State University)	MADHYA PRADESH
157	Dr Harisingh Gour Vishwavidyalaya, Sagar-470003 (Converted form State University to Central University) (Central University)	MADHYA PRADESH
158	Indian Institute of Information Technology and Management, Gwalior(Deemed university)	MADHYA PRADESH



159	Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur-482001(State University)	MADHYA PRADESH
160	Jiwaji University, Gwalior-474011(State University)	MADHYA PRADESH
161	Lakshmbai National Institute of Physical Education,Gwalior-474002 (Deemed University)	MADHYA PRADESH
162	Maharishi Mahesh Yogi Vedic Vishwavidyalaya, Jabalpur-482001(State University)*	MADHYA PRADESH
163	Makhanlal Chaturvedi Rashtriya Patrakarita National University f Journalism, Bhopal-462039* (State University)	MADHYA PRADESH
164	M.G. Gramodaya Vishwavidyalaya, Chitrakoot-485331, District Satna (State University)	MADHYA PRADESH
165	M.P.Bhoj (open) University, Bhopal-462016(State University)	MADHYA PRADESH
166	National Law Institute University, Bhaadhbhada Road, Barker Kalan, Bhopal(State University)	MADHYA PRADESH
167	Rajiv Gandhi Prodyogiki Vishwavidyalaya, Bhopal-462036(State University)	MADHYA PRADESH
168	Rani Durgavati Vishwavidyalaya, Jabalpur-482001(State University)	MADHYA PRADESH
169	Vikram University, Ujjain-456010(State University)	MADHYA PRADESH
170	NIT Bhopal	MADHYA PRADESH
171	Bharati Vidyapeeth, Pune-411030. (Deemed University)	MAHARASHTRA
172	Datta Meghe Institute of Medical Sciences, Nagpur-440022(Maharashtra). (Deemed university)	MAHARASHTRA
173	Deccan College of Post-Graduate & Research Institutet, Pune-411006.(Deemed University)	MAHARASHTRA
174	Dr. Babasaheb Ambedka Marathwada University, Aurangabad-431004(State University)	MAHARASHTRA
175	Dr. Babasaheb Ambedkar Technological University, Lonere-402103(State University)	MAHARASHTRA
176	Dr. D.Y. Patil Vidhapeeth, Pimpri, Pune-411018 (deemed University)	MAHARASHTRA
177	Dr.Punjabrao Deshmukh Krishi Vidyapeeth, Akola-4444104(State University)	MAHARASHTRA
178	Gokhale Institute of Politics & Economics, Pune-411004. (Deemed University)	MAHARASHTRA
179	Kavi Kulguru Kalidas Sanskrit Vishwavidyalaya, Nagpur-441106(State University)*	MAHARASHTRA
180	Konkan Krishi Vidyapeeth, Dapoli, district Ratnagiri-415712(State University)	MAHARASHTRA
181	Maharashtra Animal & Fishery Sciences University, Seminary Hills, Nagpur-440006(State University)*	MAHARASHTRA

READ, UNDERSTOOD AND COMPLIED WITH



182	Maharashtra University of Health Sciences, Nashik-42201(State University)*	MAHARASHTRA
183	Mahatma Gandhi antarrashtriya Hindi Vishwavidyalay, Wardha, (CentralUniversity)	MAHARASHTRA
184	Mahatma Phule Krishi Vidyapeeth, Tahuri -413722(State University)	MAHARASHTRA
185	Marathwada Agricultural University, Parbhani-431402(State University)	MAHARASHTRA
186	North Maharashtra University, Jalgaon-425001(State University)	MAHARASHTRA
187	Pravara Institute of Medical Sciences, Loni, District Ahmednagar-413736 (Deemed University)	MAHARASHTRA
188	Pune University, Pune-411007 (State University)	MAHARASHTRA
189	Sant Gadge Baba Amravati Universtiy, Amravati-444602(State University)	MAHARASHTRA
190	Shivaji University, Kolhapur-416004(State University)	MAHARASHTRA
191	Solapur University, Solapur Pune Road, Kegaon, Solapur-413255(State University)*	MAHARASHTRA
192	Swami Ramanand Teerth Marathwada University, Nanded-431606 (State University)	MAHARASHTRA
193	SYMBIOSIS International University, Pune-411004. (Deemed University)	MAHARASHTRA
194	The Rashtrasant tukadoji Maharaj Nagpur University, Nagpur-440001 (M.S.)	MAHARASHTRA
195	Tilak Maharashtra Vidyapeeth, Pune-411037.(Deemed University)	MAHARASHTRA
196	Yashwant Rao Chavan Maharashtra Open University, Nashik-422222(State University)	MAHARASHTRA
197	S. C. Mutha Aryangla Vidyak Mahavidyalaya	MAHARASHTRA
198	NIT Nagpur	MAHARASHTRA
199	Central Agricultural University, Imphal-795004 (Central University)	MANIPUR
200	Manipur University, Imphal-795003 (Central University)	MANIPUR
201	North Eastern Hill University, Shilong-793022. (Central University)	MEGHALYA
202	Techno Global University, anita Mension Bishnupur, Lawsohtun Road Shillong-793001. (private University)	MEGHALYA
203	Mizoram University, Aizawal-796012 (Central University)	Mizoram
204	Nagaland University, Nagaland-797001 (Central University)	NAGALAND
205	The Global Open University, Wokah-797111, Nagaland (Private University)**.	NAGALAND
206	Berhampur University, Berhampur -760007(State University)	ORISSA



207	Biju Patnaik University of Technology, Rourkela (State University)*	ORISSA
208	Central University of Orissa, Camp office-28/6 betin Pal Road Extn. PO-Kalighat, Kolkata-700026(Central University).	ORISSA
209	Fakir Mohan University, Balasore-596019(State University)	ORISSA
210	Kalinga Institute of Industrial Technology, Bhubaneswar-751024 (Deemed University)	ORISSA
211	North Orissa University, Baripada, Kistrict Mayurbhanj-757003, Bhubaneswar (State University)	ORISSA
212	Orissa University of Agriculture & Technology, Bhubaneswar-751003(State University)	ORISSA
213	Ravenshaw University, Cuttak-753003(State University)	ORISSA
214	Sambalpur University, Sambalpur-768019(State University)	ORISSA
215	Shri Jagannath Sanskrit Vishwavidyalaya, Puri-752003 (State University)	ORISSA
216	Utkal University, Bhubaneswar-751004(State University)	ORISSA
217	The National Law University	ORISSA
218	NIT Rourkela	ORISSA
219	Baba Farid University of Health & Medical Sciences, Kotkapura, Faridkot-151203(State University)*	PUNJAB
220	Central University of Punjab, P.O. Box-55, Bathinda, Punjab-151001(Central university)	PUNJAB
221	Guru angad Dev veterinary & Animal Sciences University, Ludhiana-141004*(State University)	PUNJAB
222	Guru Nanak Dev University, Amritsar-143005(State University)	PUNJAB
223	Lovely Professional University, Jalandhar- Ludhiana, G.T. Road, Near Chehru Railway Bridge, Phagwara, district-Kapurthala, Punjab-144002. (Private University)*	PUNJAB
224	Punjab Agricultural University, Jalandhr-Ludhiana-141004(State University).	PUNJAB
225	Punjab Technical University, Jalandhar-144011(State University)*	PUNJAB
226	Punjab University, Patiala-147002(State University)	PUNJAB
227	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, District Sangrur, Punjab (Deemed University)	PUNJAB
228	Thapar Institute of Engineering & Technology, Patiala-147004. (Deemed University)	PUNJAB
229	The Rajiv Gandhi National University of Law, Patiala-147001(State University)	PUNJAB
230	NIT Jalandhar	PUNJAB



231	Amity University, Rajasthan NH-11C, Kant Kalwar, Jaipur -303002, Rajasthan. (Private University)	RAJASTHAN
232	Banasthali Vidyapity, Banasthali-304022. (Deemed University)	RAJASTHAN
233	Bhagwant University, Post Box No. 87, Sikar Road Ajmer-305001, Rajasthan (Private University)	RAJASTHAN
234	Birla Institute of Technology & Science, Pilani-333031. (Deemed University)	RAJASTHAN
235	Central University of Rajasthan, RoomNo. 2007, Main Building, secretariat, Jaipur, Rajasthan-302005 (Central University)	RAJASTHAN
236	Institute of Advanced Studies in Education of Gandhi vidya Mandir, Sardarshahr-331401. (Deemed University)	RAJASTHAN
237	IIS University, Gurukul Marg, Mansarovar, Jaipur, Rajasthan (Deemed University)	RAJASTHAN
238	Jagadguru Ramanadacharya Sanskrit University, 2-2 A Jhalana Doongri, Jaipur (Rajasthan) (State University)*	RAJASTHAN
239	Jagannath University, Rajasthan (Privatet University)**	RAJASTHAN
240	Jai Narain Vyas University, Jodhpur-342001(State University)	RAJASTHAN
241	Jain Vishva Bharati Institite, Ladnun-341306. (Deemed University)	RAJASTHAN
242	Jaipur National University, Jagatpura, Jaipur Rajasthan (Private University)	RAJASTHAN
243	Janardan Rai Nagar Rajasthan Vidyapeeth, Udiapur-313001. (Deemed University)	RAJASTHAN
244	Jodhpur National University, Narnadi Jhanwar Road, Jodhpur-342001, Rajasthan (Private University)	RAJASTHAN
245	Jyoti Vidyapeeth Women's University, Vedant Gyan Valley village, Jharna Matpala Jabner, Link Road NH-8, Jaipur, Rajasthan (Private University)	RAJASTHAN
246	LNM Institite of Information Technology, LNM Institute of Inforamation Technology, Gram-Rupa ki nagal, Post- sumel, Via Kanata, Dist. – Jaipur-303012 (Rajasthan). (Deemed University)	RAJASTHAN
247	Maharana Pratap University of agriculture & Technology, Udaipur-313001(State University)*	RAJASTHAN
248	Maharishi Dayanand saraswati University, ajmer-305009(State University)	RAJASTHAN
249	Mewar University, chittorgarh, University, ajmer-305009(State University)	RAJASTHAN
250	Mody Institute of Technology and Science, Lakshmangarh, district Sikar Rajasthan, (Deemed University)	RAJASTHAN
251	Mohan Lal Sukhadia University, Udaipur-313001(State University)	RAJASTHAN



252	National Law University, Jodhpur-342004(State University)	RAJASTHAN
253	NIMS University, Shobha Nagar, Jipur-303001. Rajasthan (Private University)**	RAJASTHAN
254	Rajasthan Agricultural University, Bikaner-334006(State University)	RAJASTHAN
255	Rajasthan ayurveda University, Jodhpur(State University)*	RAJASTHAN
256	Rajasthan Technical University, Akelgarh, Rawat Bhata Road, Kota-324010(State University)*	RAJASTHAN
257	Rajasthan University, Jaipur-302004(State University)	RAJASTHAN
258	Rajasthan University of Health Sciences, B-1, Swai Man Singh Road (Opp SMS Hospital), Jaipur(State University)*	RAJASTHAN
259	Singhania University, Pacheribari, Jhunjunu, Rajasthan. (Private University)*	RAJASTHAN
260	Sir Padmapat Singania University, Bhatewar Udaipur-313601, Rajasthan (Private University)*	RAJASTHAN
261	Suresh Gyan Vihar University, Mahal Jagatpoura, Jaipur, Rajasthan. (Private University)**	RAJASTHAN
262	University of Bikaner, 23, Civil Lines, Bikaner (State University)*	RAJASTHAN
263	University of Kota (Rajasthan) (State University)*	RAJASTHAN
264	Vardhman Mahaveer Open University, Kota-324010 (Rajasthan) (State University)	RAJASTHAN
265	MNIT Jaipur	RAJASTHAN
266	Eastern Institute for integrated Learning in Management University, Jorethang, Sikkim (Private University)	SIKKIM
267	Sikkim- Manipal University of Health, Medical & Technological Sciences, Gangtok-737101. (Private University)	SIKKIM
268	Sikkim University, Gangtok (Central University)	SIKKIM
269	Acedemy of Maritime Education and Training, 5107, H2,2nd Avenue, 1st Floor, Anna Nagar, Chennai-600040. (Deemed University)	TAMILNADU
270	Alagappa University, Alagappa Nagar, Karaaikudi-630003(State University)	TAMILNADU
271	Amrita Vishwa Vidyapeetham, Coimbatore-641105. (Deemed University)	TAMILNADU
272	Anna University, GCT Campus, Thandagam Road, Coimbarote-641013, Tamilnadu(State University)*	TAMILNADU
273	Anna University, Guindy, Chennai-600025.* (State University)	TAMILNADU
274	Anna University, Tiruchirapalli, Tamilnadu.* (State University)	TAMILNADU
275	Anna University Tirunelveli, tirunelveli, Tamilnadu*(State University)	TAMILNADU



276	Annamalai University, Annamalainagar-608002(State University)	TAMILNADU
277	Avinashilingam Institute for Home Science & Higher Education for Women, coimbatore-641043. (Deemed University)	TAMILNADU
278	B.S. abdur Rahman Institute of Science and Technology, vandalur, Chennai, tamil Nadu. (Deemed University)	TAMILNADU
279	Bharath Institute of Higher Education & Research, Chennai-600073 (Deemed University)	TAMILNADU
280	Bharathiar University, Coimbatore-641046 (State University)	TAMILNADU
281	Bharathidasan University, Tiruchirappalli-620024(State University)	TAMILNADU
282	Chennai Mathematical Institute, Plot Nos.D-19 & D-20, SIPCOT IT Park, Padur Post, siruseri-603103, Tamil Nadu. (Deemed University)	TAMILNADU
283	Chettinad Academy of Research and Education (CARE), Padur, Kelambakkam, Kancheepuram District, Tamil Nadu.(Deemed University)	TAMILNADU
284	Central University of Tamil Nadu, C/o Collectorate Annexe, Tiruvarur-610001, Tamil Nadu (Central University)	TAMILNADU
285	Gandhigram Rural Institute, Gandhigram-624302. (Deemed University)	TAMILNADU
286	Hindustan College of Engineering, Padur, Old Mahabalipuram Road, Kelamballam, Kancheepuram District. (Tamilndu). (Deemed University)	TAMILNADU
287	Kalasalingam Academy of Research and Higher Education, Anand Nagar, krishnankoil, Virudhunagar-626190, via Srivilliputhrur, Tamilnadu. (Deemed University)	TAMILNADU
288	Karpagam Academy of Higher Education, Pollachi Main Road, Coimbatore, Tamilnadu. (Deemed University)	TAMILNADU
289	Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbtore-64114 (Tamil Nadu). (Deemed University)	TAMILNADU
290	M.G.R. Educational and Research Insititute, Chennai-600095 (Deemed University)	TAMILNADU
291	Madras University, Chennai-600005 (State University).	TAMILNADU
292	Madurai Kamraj University, Madurai-625021(State University)	TAMILNADU
293	Manonmaniam Sundarnar University, Thirunelveli-627012.	TAMILNADU
294	Meenakshi Academy of Higher Education and Research , Chennai-600092.(Deemed University)	TAMILNADU
295	MotherTeresa Women's University, Kodaikanal-624102(State University)	TAMILNADU



296	Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay, Kanyakumari District, Tamil Nadu-629175. (Deemed University).	TAMILNADU
297	Periyar Maniammai Institute of Science & Technology (PMIST), Periyar Nagar, Vallam, Thanjavur-613403, Tamil Nadu (Deemed University)	TAMILNADU
298	Periyar University, Salem-636011 (State University)	TAMILNADU
299	Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Yagappa Chavadi, Thanjavur-614904, Tamilnadu (Deemed University)	TAMILNADU
300	Rajiv Gandhi National Institute of Youth Development, Sriperumbudur, Tamilnadu-602105 (Deemed University)	TAMILNADU
301	S.R.M. Institute of Sciences and Technology, Chennai-600033. (Deemed University)	TAMILNADU
302	Shanmugha Arts, Science, Technology, Research & Academy (SASTRA), Thanjavur-613402. (Deemed University)	TAMILNADU
303	Sathyabama Institute of Science and Technology, Chennai-600119. (Deemed University)	TAMILNADU
304	Saveetha Institute of Medical and Technical Sciences, Post Box No. 6 No.162, Poonamalle High Road, Velappanchavadi, cheennai-600077(Deemed University)	TAMILNADU
305	Sri Chandrasekharandra Saraswati Vishwa Mahavidyalaya, Kancheepuram-631651. (Deemed University)	TAMILNADU
306	Sri Ramachandra Medical College and Research Institute, cheennai-600116. (Deemed University)	TAMILNADU
307	Tamil University, Thanjavur-613005(State University)	TAMILNADU
308	Tamilnadu agricultural University, Combatore-641003(State University)	TAMILNADU
309	Tamilnadu Dr. Ambedkar Law University, Chennai-600028(State University)	TAMILNADU
310	Tamilnadu Dr.M.G.R. Medical University, Anna Salai, Chennai-600032 (State University)	TAMILNADU
311	Tamilnadu Open University, Directorate of Technical Education Campus, Guindy, Chennai-600025(State University)*	TAMILNADU
312	Tamilnadu Veterinary & Animal sciences University, cheeani-600051(State University)	TAMILNADU
313	Thiruvalluvar University, fort Vellore-632004(State University)*	TAMILNADU
314	Vellore Institute of Technology, Vellore-632014. (Deemed University)	TAMILNADU
315	Vinayaka Mission's Research Foundation, Salem-636308. (Deemed University)	TAMILNADU



316	St. Peter's Institute of Higher Education and Research, Chennai, Tamilnadu. (Deemed University)	TAMILNADU
317	Vel's Institute of Science, Technology & advanced Studies(VISTAS), Pallavaram, Chennai, (Deemed University)	TAMILNADU
318	Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Chennai, Tamilnadu. (Deemed University)	TAMILNADU
319	NIT Trichy	TAMILNADU
320	Institute of Chartered Financial Analysts of India, (ICFAI) (Private University), agartala, Tripura-799001. (Private University)	TRIPURA
321	Tripura University, Agartala-799130. (Central University)	TRIPURA
322	Allahabad Agricultural Insititute, allahabad-211007. (Deemed University)	UTTAR PRADESH
323	University of Allahabad, Allahabad-211002 (Central University).	UTTAR PRADESH
324	Babasaheb Bhimrao Ambedkar University, Lucknow-226025 (Central University)	UTTAR PRADESH
325	Bhatkhande Music Institute, Kaiserbag, Lucknow-226001 (Deemed University)	UTTAR PRADESH
326	Banaras Hindu University, Varanasi-221005 (Central University)	UTTAR PRADESH
327	Bundelkhand University, Jhansi-284128. (State University)	UTTAR PRADESH
328	Central Institute of Higher Tibetan studies, Samath, Varanasi-221007. (Deemed University)	UTTAR PRADESH
329	Chandra shekhar Azad University of Agriculture & Technology, Kanpur-208002(State University)	UTTAR PRADESH
330	Chatrapati sahuji Maharaj Kanpur University, Kanpur-208024(State University)	UTTAR PRADESH
331	Choudhary Charan Singh University,Meerut-250005(State University)	UTTAR PRADESH
332	Deen Dayal Upadhyay gorakhpur University, Gorakhpur-273009(State University)	UTTAR PRADESH
333	Dr. B.R. Ambedkar University, Agra-282004(State University)	UTTAR PRADESH
334	Dr Ram Manohar Lohia Awadh University, Faizabad-224001 (State University)	UTTAR PRADESH
335	Dr. Ram Manohar Lohiya National Law University, Sector-D-1, L.D. 'A', Kanpur Road Scheme, Lucknow (State University)	UTTAR PRADESH
336	Dr. Shukantla Mishra Uttar Pradesh Viklang Vishwavidyalaya, Lucknow, Uttar Pradesh (State University)	UTTAR PRADESH



337	Gautam Buddha University, Greater Noida, District-Gautam Budh Nagar, Uttar Pradesh-201308 (State University)	UTTAR PRADESH
338	Indian Institute of Information Technology, Allahabad-211002. (Deemed University)	UTTAR PRADESH
339	Indian Veterinary Research Institute, Izatnagar-243122. (Deemed University)	UTTAR PRADESH
340	Integral University, Kursi Road, Lucknow-226026 (U.P) (Private University)	UTTAR PRADESH
341	Jagadguru Rambhadracharya Handicapped University, Chitrakoot Dham-210204. (Private University)	UTTAR PRADESH
342	Jaypee Institute of Information Technology, A-10, Sector62, Noida-201307 (U.P) (Deemed University)	UTTAR PRADESH
343	King Georges Medical University, Lucknow-226003 (State University)	UTTAR PRADESH
344	M. J.P. Rohilkhand University, Bareilly-226006 (State University)	UTTAR PRADESH
345	Mahatma Gandhi Kashi Vidyapeeth, Varanasi-221002 (State University)	UTTAR PRADESH
346	Narendra Deo University of Agriculture & Technology, Faizabad-224229 (State University)	UTTAR PRADESH
347	Nehru Gram Bharti Vishwavidyalaya, Kotwa- Jamunipur, Dubwali Disst., Allahabad, Uttar Pradesh (Deemed University)	UTTAR PRADESH
348	Sampurananand Sanskrit Vishwavidyalaya, Varanasi-221002 (State University)	UTTAR PRADESH
349	Sardar Vallabh Bhai Patel University of Agriculture & Technology, Meerut-250110 (U.P)	UTTAR PRADESH
350	Sharda University, Gautam Budh Nagar, Uttar Pradesh (Private University)	UTTAR PRADESH
351	Shobit Institute of Engineering & Technology, Dulhera Marg, Roorkee Road, Meerut-250010 (U.P) (Private State)	UTTAR PRADESH
352	Swami Vivekanand Subharti University, Subharti Puram, Delhi-Haridwar By Pass Road Meerut, (U.P) (Private University)	UTTAR PRADESH
353	Teerthanker Mahaveer University, Delhi Road, Moradabad (State University)	UTTAR PRADESH
354	U.P. King George's University of Dental science, Lucknow-226003, Uttar Pradesh (State University)	UTTAR PRADESH
355	U.P Rajarshi Tandon Open University, 17, Maharshi Dayanand Marg, (Thornhill Road), Allahabad-211001, Uttar Pradesh (State University)	UTTAR PRADESH
356	Uttar Pradesh Technical University, Sitapur Road, Moradabad (State University)	UTTAR PRADESH



357	Veer Bahadur Singh Purvanchal University, Jaunpur-222002 (State University)	UTTAR PRADESH
358	SRM university NCR campus,modinagar	UTTAR PRADESH
359	University of Agricultural Sciences,	UTTAR PRADESH
360	Amity University, Lucknow Private	UTTAR PRADESH
361	University of Lucknow	UTTAR PRADESH
362	MNNIT Allahabad	UTTAR PRADESH
363	Dev Sanskriti Vishwavidyalaya, Gayatrikunj, Shantikunj, Haridwar-249411. (Private University)	UTTARAKHAND
364	Doon University, Campus Office, 388/2, Indira Nagar Dehradun. (Private University)	UTTARAKHAND
365	Forest Research Institute, Dehradun-248195. (Deemed University)	UTTARAKHAND
366	G.B. Pant University of Agriculture and Technology, Pantnagar-263145 (State University)	UTTARAKHAND
367	Graphic Era University, 566/6 Bell Road, Clement Town, Dehradun, Uttrakhand. (DeemedUniversity)	UTTARAKHAND
368	Gurukul Kangri Vishwavidyalaya, Haridwar-249404. (Deemed University)	UTTARAKHAND
369	Hemwati Nandan Bahuguna Garhwal University, Srinagar-246174. (Converted from State University to Central University) (Central Univcrsity)	UTTARAKHAND
370	HIHT University, Swami Rama Nagar, Jolly Grant, P.O. Doiwala, Dehradun, Uttarakhand. (Deemed University)	UTTARAKHAND
371	Himgiri Nabh Vishwavidyalaya (University in the Sky), Dehradun. (Private University)	UTTARAKHAND
372	Institute of Chartered Financial Analysts of India (ICFAI) (Private University), C-1/103, Indira Nagar, Dehradun-248006, Uttrakhand (Private Univrsity)	UTTARAKHAND
373	Kumaun University, Nainital-263001 (State university)	UTTARAKHAND
374	University of Patanjali, Patanjali Yogpeeth, Haridwar (Private University)	UTTARAKHAND
375	University of Petroleum and Energy Studies, Building No.-7, Street No. 1, Vasant Vihar Enclave, Dehradun-284006, Uttrakhand (Private University)	UTTARAKHAND
376	Uttaranchal Sanskrit University, Haridwar-249401, Uttrakhand (State University)	UTTARAKHAND
377	Aliah University, Kolkota, West Bengal (State University)	WEST BENGAL
378	Bidhan Chandra Krishi Vishwavidyalaya, Mohanpur, Nadia-714252 (State University)	WEST BENGAL
379	Burdwan University, Kolkata-700032 (State University)	WEST BENGAL
380	Calcutta University, Kolkata-700073 (State University)	WEST BENGAL
381	Gaur Banga University, Rabindra Avenue, Malda College Campus, P.O. & Disst-Malda-732101, (State University)	WEST BENGAL
382	Jadavpur University, Calcutta-700073 (State University)	WEST BENGAL

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383	Kalyani University, Kalyani-741235 (State University)	WEST BENGAL
384	Netaji Subhash Open Univesity, Kolkata-700020 (State University)	WEST BENGAL
385	North Bengal University, Raja Ram Mohanpur, Darjeeling-734430 (State University)	WEST BENGAL
386	Rabindra Bharati University, Kolkata-700050 (State University)	WEST BENGAL
387	Ramakrishna Mission Vivekananda Educational and Research Institute , Belur Math, Howrah, West Bengal (Deemed University)	WEST BENGAL
388	The Bengal Engineering & Science University, Shibpur, Howrah-711103. (converted from Deemed University to State University)	WEST BENGAL
389	The West Bengal National University of Juridical science, NUJS Bhava, 12 LB Block, Sector-III, Salt Lake City, Kolkata (State University)	WEST BENGAL
390	The West Bengal University of Health Sciences, DD-36, Sector-1, Salt Lake, Kolkata-700064 (State University)	WEST BENGAL
391	Uttar Bangal Krishi Vishwavidyalaya, District-Cooch Behar-736165 (State University)	WEST BENGAL
392	Vidya Sagar University, Midnapor-721102 (State University)	WEST BENGAL
393	Vishwa Bharati University, Shanti Niketan-731235 (Central University)	WEST BENGAL
394	West Bengal State University , Barasat Govt. College, Annexure Building, 10, KNC Road, Kolkata-700124. (State University)	WEST BENGAL
395	West Bengal State University of Animal and Fishery Sciences, Belgachia, Kolkota-700037 (State University)	WEST BENGAL
396	West Bengal University of Technology, Kolkata-700064 (State University)	WEST BENGAL
397	NIT Durgapur	WEST BENGAL
398	Punjab Engineering College, Chandigarh-160009. (Deemed University)	CHANDIGARH
399	Punjab University, Chandigarh-160014 (State University)	CHANDIGARH
400	Pondicherry University, Pondicherry-605014. (Central University)	PONDICHERRY



ANNEXURE –III

**FACILITY MANAGEMENT CONTRACT FOR
CAMPUS WIDE LAN INFRASTRUCTURE PROJECT**

Agreement is made on the _____ day of _____ (year) to be effective from _____ between M/s. Bharat Sanchar Nigam Limited a company registered under the Companies Act 1956 having licence to provide all types of services of Telegraph and having its registered office at Bharat Sanchar Bhawan, H.C. Mathur Lane, Janpath, New Delhi – 110 001 and Corporate Office at Bharat Sanchar Bhawan, H.C. Mathur Lane, Janpath, New Delhi – 110 001 (hereinafter called BSNL) of the ONE PART and _____ a company registered under the Companies Act 1956 and having its registered office at _____

(hereinafter called SUPPLIER, which expression shall, unless repugnant to the context, include its successors in business, legal representatives and administrators or permitted assigns) of the OTHER PART.

WHEREAS, BSNL has placed purchase order on the SUPPLIER vide No. _____ dated _____ for supply, installation, commissioning, AMC & Facility Management of NME LAN Project against Tender No. _____ Dated at Delhi the _____.

WHEREAS the SUPPLIER has made the offer to duly comply with all the provisions of the Bid Document, including those pertaining to Facility Management, after making himself fully aware and understanding fully the implications of the terms and conditions and specifications mentioned therein and which has been accepted by BSNL on the terms and conditions mentioned hereafter and after ascertaining that the SUPPLIER is fully capable of complying with the afore said terms of the Bid Document.

NOW the AGREEMENT WITNESSETH as follows:

1. PERIOD OF VALIDITY OF THE AGREEMENT

- 1.1 This Agreement shall remain in force for five years from the date of successful installation and commissioning of equipment.
- 1.2 Extension of this Agreement shall be negotiable for the second term depending on the performance of the SUPPLIER during the period of the initial term.
2. In addition to complying with all the terms and conditions recorded in the Bid Document, the SUPPLIER hereby agrees and unequivocally undertakes to fully comply with all the terms and conditions stipulated in this Agreement and without any deviation or reservations of any kind.
3. Unless otherwise mentioned or appearing from the context, the RFP (Bid) Document and any clarifications thereof and the purchase order shall form part and parcel of this agreement, provided that in case of conflict or inconsistency on any issue relating to this Agreement, the terms set out in the body of this agreement with schedules and Annexure thereto shall prevail.
4. During the period of Facility Management the SUPPLIER shall inter-alia:
 - i) All activities and processes which are equipment specific, and overall operations, like performance management, security management, configuration Management, network and subsystem administration, fault management.
 - ii) The Operation & Management of LAN Infrastructure shall be carried through the NMS hosted out of the premises of the SUPPLIER at its own cost.
 - iii) All such activity, which is not explicitly covered under AMC but is essential, as part of the operations and management of LAN Infrastructure network shall also be performed by the Supplier. In case of any dispute in this regard, decision of BSNL shall prevail.
 - iv) All such equipment, which is not explicitly covered under AMC but is essential, as part of the operations and management of LAN network shall also be provided by the successful bidder. In case of any dispute in this regard, decision of BSNL shall prevail.
 - v) Facility Operations and Management Services have to be provided on 24x7 hour basis.
 - vi) The Supplier shall not, during the term of the contract and within five years after its expiry, disclose any proprietary or confidential information relating to the services, or BSNL's business or operations without prior written permission of BSNL.



- vii) Each University shall have a designated field engineer, responsible for operations of the LAN infrastructure in the University.
- viii) The entire network shall be managed centrally from the NMS hosted out of the Supplier premises at its own cost.
- ix) Remote access to any LAN infrastructure equipment shall not be permitted from anywhere other than the designated location and the service desk at the University to carry out operations and management of LAN. Overall performance optimization and tuning on a regular basis

5. OPERATION AND MAINTENANCE :

5.1 TECHNICAL SUPPORT CENTRE

- 5.1.1 The SUPPLIER shall have Technical support Centres in atleast Four cities With this support center the SUPPLIER shall meet the criteria for fault restoration/faulty unit repair times as mentioned in the facility Management. The SUPPLIER shall furnish the names, locations, complete postal address, Telephone numbers and FAX numbers of all the contact persons at the Technical support Centre at the time of signing this Agreement.
- 5.1.2 The SUPPLIER shall also provide the name of alternate contact person or Technical Support Centre with address & telephone /FAX no. which may be contacted by BSNL staff for support in case of no response/poor response from the designated Technical support centre. This, however, shall not preclude BSNL from imposing the penalties, if any, as applicable as per the terms & conditions of this agreement.
- 5.1.3 Any change in Address, Phone number, FAX Number etc shall have to be intimated in writing by the SUPPLIER to the concerned In charge of the BSNL & BSNL Corporate Office at the earliest.
- 5.1.4 The successful bidder shall not further sub-contract whole or part of this assignment to any third party and also ensure that the managers/engineers posted at BSNL NME LAN Project for the job are not assigned any other job during the contract period.
- 5.1.5 BSNL reserves the right to ask for change of personnel and expert(s) should their performance or conduct be found unsatisfactory by BSNL. Decision of BSNL in this regard shall be final and binding.
- 5.1.6 The successful bidder shall replace such person(s) within 3 days of receipt of such notice with suitable person having equivalent or better qualification and experience.

5.2 RESPONSIBILITIES OF TECHNICAL SUPPORT CENTER:

- 5.2.1 The SUPPLIER shall ensure that all the Technical Support Centres are manned by fully competent and responsible Engineers and are:
- 5.2.2 Capable of giving all types of necessary technical guidance/assistance over phone to the respective In-charge of respective University sites in respect of all the hardware and software components deployed against this project including and its Service Assurance, Fault and Performance analysis etc.
- 5.2.3 Capable of attending the faults at the sites whenever needed by deputing competitive technical expert.
- 5.2.4 The SUPPLIER shall also ensure that Technical support Centres are manned and are able to provide service for this project round the clock, all the seven days of the week throughout the year. The level of service provided for this project shall not go down during nighttimes or due to any day being holiday, or for any other reason.
- 5.2.5 The Technical support Centers shall receive the faulty cards/units/PCBs from University sites and repair/replace them with good cards during the period of AMC.
- 5.2.6 One or more of the Technical Support Center (s) shall also work as repair center (s) and the same shall be responsible for repairing the faulty cards/units/PCBs and shall also maintain a requisite minimum stock of such cards/equipment often going faulty, in order to keep the down time within limits as envisaged in the this agreement. The SUPPLIER shall be at liberty to distribute spares to the nodes as deemed fit or keep them at the designated repair centers.
- 5.2.7 The Technical support Centre shall regularly obtain feedback about the health of the systems under its jurisdiction from the respective in-charges of BSNL on monthly basis (or even more frequently) and maintain a proper record of such feedback. These shall be made available to the technical experts nominated by the SUPPLIER for analysis and such technical expert in turn shall give adequate and proper guidelines / technical advise to the in-charges of BSNL Nodes for taking necessary preventive measure/s for reducing the frequency of such faults and also for preventing such faults from re-occurring. This shall, however, not absolve the SUPPLIER from fulfilling his obligations under this agreement.
- 5.2.8 The first line maintenance shall be done by service desk staff deputed by Supplier by replacement of the faulty/affected module with a readily available good module, stocked at the site by the SUPPLIER at his (SUPPLIER's) cost or out of the spare capacity, if available, if no spares at site have been made available by the SUPPLIER. Decision whether the module/cards at any node can be made spare or not shall rest with BSNL/ University authorities. It shall not absolve the SUPPLIER from his responsibilities under this agreement for restoration of fault etc. All such change/replacement of faulty/affected modules shall be done by BSNL staff over the telephonic (or otherwise) instructions of the technical support centre.



- 5.2.9 The faulty module shall be sent by the Supplier to the SUPPLIER's designated Repair Center/ Technical support Center within shortest possible time.
- 5.2.10 The SUPPLIER shall arrange and ensure repair or replacement of the faulty equipment, to the concerned University site within 15 days of dispatch of the faulty module by BSNL to the SUPPLIER's designated Technical support Centre. While the responsibility of delivering the faulty module/Card/PCB/equipments to the SUPPLIER's premises will lie with BSNL, the responsibility of repairing and sending back the same to the respective BSNL site will be with the SUPPLIER.
- 5.2.11 This 15 days time shall be calculated from the date of dispatch of the faulty equipment at the SUPPLIER's designated premises to the date of receiving back of the repaired/ replacement of the same at the concerned BSNL site. Three days time in each direction shall be taken as transit time. Wherever sub-racks or other equipment are brought by the representative of the SUPPLIER at site for replacement the faulty unit/subrack/equipment shall be taken back by the said representative for further repair etc. at the cost of SUPPLIER.
- 5.2.12 The SUPPLIER shall ensure that a minimum stock of 5% of the Hardware shall be available in the coverage area as spare stock at the Technical support Centers. It will be at the option of the SUPPLIER to distribute the Hardware at different Nodes to meet his obligation under AMC.

5.3 TECHNICAL SUPPORT PROCEDURE:

- 5.3.1 The following procedure shall be followed for Technical support:
- 5.3.1.1 In case of any fault, abnormality in the system, partial or total failure of the system, the service desk staff in charge of the University LAN will immediately contact the designated Technical support Centre of the SUPPLIER and give information about the nature of fault over phone / FAX / e-mail.
- 5.3.1.2 The details of the faults reported shall be recorded in a prescribed format, called the "FAULT – DOCKET" as given in **Appendix-B** of this Agreement. Changes in the "FAULT – DOCKET" may be incorporated for better reporting and recording reconciliation of the faults and also at Technical support Centres of the SUPPLIER by mutual agreement and understanding, to best utilize the Fault Docket facility of NMS or as and when such need is felt. To this end changes in fault reporting procedures can also be incorporated.
- 5.3.1.3 Even if the fault is reported over phone to the Technical support Centre a copy of the "Fault Docket" duly filled in by the station In charge of BSNL shall be sent by FAX and also by post to the Technical support Centre of the SUPPLIER for records. The time of occurrence of fault as recorded in the fault docket shall only be taken into consideration for calculating the actual duration of faults.
- 5.3.1.4 Similarly, after rectification of fault a fresh Fault- Docket duly filled in and after recording the time of restoration and total duration of fault, will be sent by station In-charge of BSNL to the Technical support Centre, preferably by FAX, for records.
- 5.3.1.5 In case of any dispute arising regarding duration of fault etc, the Fault Docket as maintained at the BSNL Node shall be the guiding documents to be agreed by both parties.
- 5.3.1.6 The "Fault Docket" shall be filled with utmost care, giving all the details of the faults and other information as prescribed in the Fault Docket and the entries made shall be authenticated by signature of the Node In-charge of the station concerned.
- 5.3.1.7 Technical instructions shall be given to the person manning the concerned Node, over phone. If the fault is restored by following the instructions given over phone, the Node In-charge of BSNL will close the Fault Docket after making suitable entries and after satisfying himself of the proper restoration of the fault. A copy of the Fault Docket duly filled in shall be sent to the Technical support Centre for records.
- 5.3.1.8 The SUPPLIER shall also ensure visits of the expert and competent technical staff of the SUPPLIER in case the fault is not rectified to the satisfaction of BSNL even after following the telephonic instructions and advices.
- 5.3.1.9 Once the fault has been rectified and the system & services were restored to normalcy, the visiting engineer of the SUPPLIER shall record in the Node Log Book, the details of the works done by him for restoration of the faults and also record the details of steps to be taken and procedures to be followed for not only restoration of similar faults by BSNL staff but also for preventing the occurrence of similar faults in future. Similar entries shall be made in the fault docket also.

5.4 O & M REPORTS AND LOG BOOKS:

- 5.4.1 The SUPPLIER shall supply elaborate fortnightly Performance Report indicating routine and specific jobs done. Report shall also contain detailed status of various performance parameters monitored or being monitored.

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- 5.4.2 The SUPPLIER shall also provide Quarterly Performance Report, which would be a consolidation of all the fortnightly reports of the quarter indicating clearly the status of jobs done, jobs pending and performance based on set out parameters. Status of availability and quality of service based on set out parameters should be clearly brought out in the report. Constraints, if any, in achieving the targets should also be stated clearly. Status of other works, if any, requested to be done under this assignment should also be stated.

6 FACILITY MANAGEMENT CHARGES AND PAYMENTS :

- 6.1 The charges for facility management will be as given in the purchase order. A copy of the same is enclosed at Appendix D. (to be made part of the agreement at the time of signing this agreement).
- 6.2 For fulfilling the above obligations, the following procedure shall be followed for paying the SUPPLIER the charges for the services rendered by the SUPPLIER under this Agreement.
- 6.3 BSNL shall not pay any charges in advance. Bills for facility management shall be paid by BSNL at the end of each quarter, after successful execution of the works under this Agreement normally within 15 (fifteen) days of the receipt of the University-wise bills duly completed.
- 6.4 All payments shall be made by based on the fault report received, after deducting penalties if any. For this purpose, BSNL shall designate nodal officers at the respective circle headquarters.
- 6.5 BSNL reserves the right to adjust payment of Facility Management charges in any quarter, any time during the period of Operation & Maintenance of the System.

7 FORCE MEJEURE

Neither BSNL nor the SUPPLIER shall be liable to the other for any delay in or failure of performance of their respective obligation under the agreement caused by occurrences beyond the control of BSNL or the SUPPLIER including but not limited to fire (including failure or reductions), acts of God, acts to the public enemy, was, insurrections, riots, strikes, lockouts, sabotage, any law, status or ordinance, thereof of any other local authority, or any compliance therewith or any other causes, contingencies of circumstances similar to the above. Either party shall promptly but not later than twenty days thereafter notify the other of the commencement, and cessation of such contingencies, and if such contingencies continue beyond three months. Both parties agree upon the equitable solution for termination of this agreement or otherwise decide the course of action to be adopted.

8 DISPUTES & ARBITRATION:

- 8.1 In the event of any question, dispute or difference arising under this agreement or in connection there-with (except as to matter the decision of which is specifically provided under this agreement), the same shall be referred to sole arbitration of the CMD, BSNL, New Delhi or in case his designation is changed or his office is abolished then in such case to the sole arbitration of the officer for the time being entrusted (whether in addition to his own duties or otherwise) with the functions of the CMD, BSNL or by whatever designation such officers may be called (hereinafter referred to as the said officer) and if the CMD, BSNL or the said officer is unable or unwilling to act as such the sole arbitration or some other person appointed by the CMD, BSNL or the said officer. The agreement to appoint an arbitrator will be in accordance with the Arbitration and Conciliation Act, 1996.

There will be no objection to any such appointment on the ground that the arbitrator is BSNL Servant or that he has to deal with the matter to which the agreement relates or that in the course of his duties as BSNL Servant he has expressed views on all or any of the matter under dispute. The award of the arbitrator shall be final and binding on the parties to the agreement. In the event of such arbitrator to whom the matter is originally referred, being transferred or vacating his office or being unable to act for any reasons whatsoever the CMD, BSNL or the said officer shall appoint another person to act as arbitrator in accordance with terms of the agreement and the person so appointed shall be entitled to proceed from the stage at which it was left out by his predecessors.

- 8.2 The arbitrator may from time to time with the consent of parties enlarge the time for making and publishing the award. Subject to aforesaid Arbitration and Conciliation Act, 1996 and the Rules made there under, any modification thereof for the time being in force shall be deemed to apply to the arbitration proceeding under this clause.
- 8.3 The venue of the arbitration proceeding shall be the Office of the CMD, BSNL, New Delhi or such other Places as the arbitrator may decide.



8.4 Any party shall not use any information obtained from other party during the course of dispute resolution process under this clause for any purpose other than to resolve the dispute and such information shall not be used in any litigation.

8.5 Both parties shall use their best efforts in good faith and best intention to resolve disputes by mutual negotiation and consultation and shall settle amicably any dispute that may arise or relate to this agreement or breach thereof. Pending resolution of a dispute, the supplier shall continue to fulfill its obligations under this agreement.

9 Set Off:

Any sum of money due and payable to the SUPPLIER (including security deposit refundable to him) under this contract may be appropriated by the purchaser or the BSNL or any other person or persons contracting through the BSNL and set off the same against any claim of the Purchaser or BSNL or such other person or persons for payment of a sum of money arising out of this contract or under any other contract made by the SUPPLIER with the Purchaser or BSNL or such other person or persons contracting through BSNL.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed through their respective authorized representatives on the day and year first above written.

Signed and delivered for and on behalf of BHARAT SANCHAR NIGAM LIMITED.

By _____

Signed on behalf of M/s. _____

By Shri _____ holder of General Power of Attorney dated _____ executed in accordance with the Resolution No. Nil dated _____ passed by Board of Directors.

In the presence of:

Witness:

1. _____

2. _____



ANNEXURE –IV

**ANNUAL MAINTENANCE CONTRACT FOR
CAMPUS WIDE LAN INFRASTRUCTURE PROJECT**

Agreement is made on the _____ day of _____ (year) to be effective from _____ between M/s. Bharat Sanchar Nigam Limited a company registered under the Companies Act 1956 having licence to provide all types of services of Telegraph and having its registered office at Bharat Sanchar Bhawan, H.C. Mathur Lane, Janpath, New Delhi – 110 001 and Corporate Office at Bharat Sanchar Bhawan, H.C. Mathur Lane, Janpath, New Delhi – 110 001 (hereinafter called BSNL) of the ONE PART and _____ a company registered under the Companies Act 1956 and having its registered office at _____ (hereinafter called SUPPLIER, which expression shall, unless repugnant to the context, include its successors in business, legal representatives and administrators or permitted assigns) of the OTHER PART.

WHEREAS, BSNL has placed purchase order on the SUPPLIER vide No. _____ dated _____ for supply, installation, commissioning & Annual Maintenance of NME LAN Project against Tender No _____ Dated at Delhi the _____.

WHEREAS the SUPPLIER has made the offer to duly comply with all the provisions of the Bid Document, including those pertaining to Post Warranty Annual Maintenance Contract, after making himself fully aware and understanding fully the implications of the terms and conditions and specifications mentioned therein and which has been accepted by BSNL on the terms and conditions mentioned hereafter and after ascertaining that the SUPPLIER is fully capable of complying with the afore said terms of the Bid Document.

NOW the AGREEMENT WITNESSETH as follows:

6. PERIOD OF VALIDITY OF THE AGREEMENT

- 1.3 This Agreement shall remain in force for three years from the date of completion of two year warranty, while at the same time the term and conditions of this agreement except for payment of charges to the SUPPLIER shall also apply during warranty period.
- 1.4 Extension of this Agreement shall be negotiable for the second term depending on the performance of the SUPPLIER during the period of the initial term.
7. In addition to complying with all the terms and conditions recorded in the Bid Document, the SUPPLIER hereby agrees and unequivocally undertakes to fully comply with all the terms and conditions stipulated in this Agreement and without any deviation or reservations of any kind.
8. Unless otherwise mentioned or appearing from the context, the RFP (Bid) Document and any clarifications thereof and the purchase order shall form part and parcel of this agreement, provided that in case of conflict or inconsistency on any issue relating to this Agreement, the terms set out in the body of this agreement with schedules and Annexure thereto shall prevail.
9. Entire hardware/software including database shall be supported for 1 years warranty and 4 years AMC.
10. During the period of AMC the SUPPLIER shall inter-alia:
- x) Diagnose the hardware and software faults.
 - xi) Rectify the hardware/software faults detected.
 - xii) Repair and replace the faulty parts and any other equipment or part thereof.
 - xiii) Carry out the periodic preventive maintenance.
 - xiv) Upkeep the software periodically. Upgrade the software to latest version along with associated hardware, if any
 - xv) Create customized reports (detailed and summary ; text and graphical) from various systems required for day to day operations and maintenance, capacity, and trend analysis etc. including MIS reports for senior management of BSNL.
 - xvi) Provide alerts and notifications immediately on outbreak of virus attack and immediately provide and implement policies for prevention/spread.
 - xvii) Provide timely updates for security attack signatures for the entire security infrastructure.
 - xviii) Overall performance optimization and tuning on a regular basis



11. The supplier shall prepare the schedule of preventive maintenance for each quarter and shall submit the same to BSNL in advance. Schedule shall include in details, system wide preventive maintenance activities. The preventive maintenance shall not affect the normal functioning of the system.
 12. The SUPPLIER shall provide all global software upgrades to BSNL free of cost as a part of the AMC as well the maintenance of these upgrades.
 13. The SUPPLIER shall be solely responsible for the maintenance, repair & up gradation of the software/hardware systems, equipments and parts thereof and BSNL shall not be liable to interact with any of the part/ collaborators or subcontractors of the SUPPLIER.
 14. **REPAIR AND MAINTENANCE :**
- 9.1 **TECHNICAL SUPPORT CENTRE**
 - 9.1.1 The SUPPLIER shall have Technical support Centres in atleast Four cities With this support center the SUPPLIER shall meet the criteria for fault restoration/faulty unit repair times as mentioned in the AMC. The SUPPLIER shall furnish the names, locations, complete postal address, Telephone numbers and FAX numbers of all the contact persons at the Technical support Centre at the time of signing this Agreement.
 - 9.1.2 The SUPPLIER shall also provide the name of alternate contact person or Technical Support Centre with address & telephone /FAX no. which may be contacted by BSNL staff for support in case of no response/poor response from the designated Technical support centre. This, however, shall not preclude BSNL from imposing the penalties, if any, as applicable as per the terms & conditions of this agreement.
 - 9.1.3 Any change in Address, Phone number, FAX Number etc shall have to be intimated in writing by the SUPPLIER to the concerned In charge of the BSNL & BSNL Corporate Office at the earliest
 - 9.2 **RESPONSIBILITIES OF TECHNICAL SUPPORT CENTER:**
 - 9.2.1 The SUPPLIER shall ensure that all the Technical Support Centres are manned by fully competent and responsible Engineers and are:
 - 9.2.1.1 Capable of giving all types of necessary technical guidance/assistance over phone to the respective In-charge of respective University sites in respect of all the hardware and software components deployed against this project including and its Service Assurance, Fault and Performance analysis etc.
 - 9.2.1.2 Capable of attending the faults at the sites whenever needed by deputing competitive technical expert .
 - 9.2.2 The SUPPLIER shall also ensure that Technical support Centres are manned and are able to provide service for this project round the clock, all the seven days of the week throughout the year. The level of service provided for this project shall not go down during nighttimes or due to any day being holiday, or for any other reason.
 - 9.2.3 The Technical support Centers shall receive the faulty cards/units/PCBs from University sites and repair/replace them with good cards during the period of AMC.
 - 9.2.4 One or more of the Technical Support Center (s) shall also work as repair center (s) and the same shall be responsible for repairing the faulty cards/units/PCBs and shall also maintain a requisite minimum stock of such cards/equipment often going faulty, in order to keep the down time within limits as envisaged in the this agreement. The SUPPLIER shall be at liberty to distribute spares to the nodes as deemed fit or keep them at the designated repair centers.
 - 9.2.5 The Technical support Centre shall regularly obtain feedback about the health of the systems under its jurisdiction from the respective in-charges of BSNL on monthly basis (or even more frequently) and maintain a proper record of such feedback. These shall be made available to the technical experts nominated by the SUPPLIER for analysis and such technical expert in turn shall give adequate and proper guidelines / technical advise to the in-charges of BSNL Nodes for taking necessary preventive measure/s for reducing the frequency of such faults and also for preventing such faults from re-occurring. This shall, however, not absolve the SUPPLIER from fulfilling his obligations under this agreement.



- 9.2.6 The first line maintenance shall be done by service desk staff deputed by Supplier by replacement of the faulty/affected module with a readily available good module, stocked at the site by the SUPPLIER at his (SUPPLIER's) cost or out of the spare capacity, if available, if no spares at site have been made available by the SUPPLIER. Decision whether the module/cards at any node can be made spare or not shall rest with BSNL/ University authorities. It shall not absolve the SUPPLIER from his responsibilities under this agreement for restoration of fault etc. All such change/replacement of faulty/affected modules shall be done by BSNL staff over the telephonic (or otherwise) instructions of the technical support centre.
- 9.2.7 The faulty module shall be sent by the Supplier to the SUPPLIER's designated Repair Center/ Technical support Center within shortest possible time.
- 9.2.8 The SUPPLIER shall arrange and ensure repair or replacement of the faulty equipment, to the concerned University site within 15 days of 107dispatch of the faulty module by BSNL to the SUPPLIER's designated Technical support Centre. While the responsibility of delivering the faulty module/Card/PCB/equipments to the SUPPLIER's premises will lie with BSNL, the responsibility of repairing and sending back the same to the respective BSNL site will be with the SUPPLIER.
- 9.2.9 This 15 days time shall be calculated from the date of 107dispatch of the faulty equipment at the SUPPLIER's designated premises to the date of receiving back of the repaired/ replacement of the same at the concerned BSNL site. Three days time in each direction shall be taken as transit time. Wherever sub-racks or other equipment are brought by the representative of the SUPPLIER at site for replacement the faulty unit/subrack/equipment shall be taken back by the said representative for further repair etc. at the cost of SUPPLIER.
- 9.2.10 The SUPPLIER shall ensure that a minimum stock of 5% of the Hardware shall be available in the coverage area as spare stock at the Technical support Centers. It will be at the option of the SUPPLIER to distribute the Hardware at different Nodes to meet his obligation under AMC.
- 9.3 **TECHNICAL SUPPORT PROCEDURE:**
- 9.3.1 The following procedure shall be followed for Technical support:
- 9.3.1.1 In case of any fault, abnormality in the system, partial or total failure of the system, the service desk staff in charge of the University LAN will immediately contact the designated Technical support Centre of the SUPPLIER and give information about the nature of fault over phone / FAX / e-mail.
- 9.3.1.2 The details of the faults reported shall be recorded in a prescribed format, called the "FAULT – DOCKET" as given in **Appendix-B** of this Agreement. Changes in the "FAULT – DOCKET" may be incorporated for better reporting and recording reconciliation of the faults and also at Technical support Centres of the SUPPLIER by mutual agreement and understanding, to best utilize the Fault Docket facility of NMS or as and when such need is felt. To this end changes in fault reporting procedures can also be incorporated.
- 9.3.1.3 Even if the fault is reported over phone to the Technical support Centre a copy of the "Fault Docket" duly filled in by the station In charge of BSNL shall be sent by FAX and also by post to the Technical support Centre of the SUPPLIER for records. The time of occurrence of fault as recorded in the fault docket shall only be taken into consideration for calculating the actual duration of faults.
- 9.3.1.4 Similarly, after rectification of fault a fresh Fault- Docket duly filled in and after recording the time of restoration and total duration of fault, will be sent by station In-charge of BSNL to the Technical support Centre, preferably by FAX, for records.
- 9.3.1.5 In case of any dispute arising regarding duration of fault etc, the Fault Docket as maintained at the BSNL Node shall be the guiding documents to be agreed by both parties.
- 9.3.1.6 The "Fault Docket" shall be filled with utmost care, giving all the details of the faults and other information as prescribed in the Fault Docket and the entries made shall be authenticated by signature of the Node In-charge of the station concerned.
- 9.3.1.7 Technical instructions shall be given to the person manning the concerned Node, over phone. If the fault is restored by following the instructions given over phone, the Node In-charge of BSNL will close the Fault Docket after making suitable entries and after satisfying himself of the proper restoration of the fault. A copy of the Fault Docket duly filled in shall be sent to the Technical support Centre for records.
- 9.3.1.8 The SUPPLIER shall also ensure visits of the expert and competent technical staff of the SUPPLIER in case the fault is not rectified to the satisfaction of BSNL even after following the telephonic instructions and advices.



9.3.1.9 Once the fault has been rectified and the system & services were restored to normalcy, the visiting engineer of the SUPPLIER shall record in the Node Log Book, the details of the works done by him for restoration of the faults and also record the details of steps to be taken and procedures to be followed for not only restoration of similar faults by BSNL staff but also for preventing the occurrence of similar faults in future. Similar entries shall be made in the fault docket also.

9.4 MAINTENANCE OF HISTORY SHEET AND LOG BOOKS:

9.4.1 The SUPPLIER shall supply elaborate Maintenance Procedures and Proforma of the history sheet to every site of BSNL, where its (the Supplier's) equipments are installed.

9.4.2 Service Desk personnel shall fill up the history sheet containing the statistics about the health of the LAN equipments installed at the concerned site and send a report to the Technical support and national Centre of the SUPPLIER on monthly basis. Based on the History sheet report, the SUPPLIER shall analyze the health record of each site and if something alarming or unusual is noticed, shall advise the field staff of BSNL to take necessary actions for preventive maintenance of such equipments. These instructions for preventive maintenance shall be passed on to BSNL staff of the concerned station in writing and by sending experts to the respective stations when felt necessary. BSNL reserves the right to make changes in the proforma proposed by the SUPPLIER.

9.4.3 History sheet proforma shall become part of this agreement as **Appendix-C** at the time of signing of the agreement.

9.5 PREVENTIVE MAINTENANCE

9.5.1 The SUPPLIER shall carry out the preventive maintenance of the system once in three months.

9.5.2 The preventive maintenance tests shall include testing of all nodes, fibers including spare fiber, connectivity and the LAN points.

9.5.3 A certificate to this effect shall be obtained from the designated officer of the university for claiming the AMC payments for the respective period.

10 AMC CHARGES AND PAYMENTS :

10.1 The charges for AMC will be as given in the purchase order. A copy of the same is enclosed at Appendix D. (to be made part of the agreement at the time of signing this agreement).

10.2 For fulfilling the above obligations, the following procedure shall be followed for paying the SUPPLIER the charges for the services rendered by the SUPPLIER under this Agreement.

10.3 BSNL shall not pay any charges in advance. Bills for AMC shall be paid by BSNL at the end of each quarter, after successful execution of the works under this Agreement normally within 15 (fifteen) days of the receipt of the University-wise bills duly completed.

10.4 All payments shall be made by based on the fault report received, after deducting penalties if any. For this purpose, BSNL shall designate nodal officers at the respective circle headquarters.

10.5 BSNL reserves the right to adjust payment of AMC charges in any quarter, any time during the period of AMC.

11 FORCE MEJEURE

Neither BSNL nor the SUPPLIER shall be liable to the other for any delay in or failure of performance of their respective obligation under the agreement caused by occurrences beyond the control of BSNL or the SUPPLIER including but not limited to fire (including failure or reductions), acts of God, acts to the public enemy, was, insurrections, riots, strikes, lockouts, sabotage, any law, status or ordinance, thereof of any other local authority, or any compliance therewith or any other causes, contingencies of circumstances similar to the above. Either party shall promptly but not later than twenty days thereafter notify the other of the commencement, and cessation of such contingencies, and if such contingencies continue beyond three months. Both parties agree upon the equitable solution for termination of this agreement or otherwise decide the course of action to be adopted.

12 DISPUTES & ARBITRATION:



12.1 In the event of any question, dispute or difference arising under this agreement or in connection there-with (except as to matter the decision of which is specifically provided under this agreement), the same shall be referred to sole arbitration of the CMD, BSNL, New Delhi or in case his designation is changed or his office is abolished then in such case to the sole arbitration of the officer for the time being entrusted (whether in addition to his own duties or otherwise) with the functions of the CMD, BSNL or by whatever designation such officers may be called (hereinafter referred to as the said officer) and if the CMD, BSNL or the said officer is unable or unwilling to act as such the sole arbitration or some other person appointed by the CMD, BSNL or the said officer. The agreement to appoint an arbitrator will be in accordance with the Arbitration and Conciliation Act, 1996.

There will be no objection to any such appointment on the ground that the arbitrator is BSNL Servant or that he has to deal with the matter to which the agreement relates or that in the course of his duties as BSNL Servant he has expressed views on all or any of the matter under dispute. The award of the arbitrator shall be final and binding on the parties to the agreement. In the event of such arbitrator to whom the matter is originally referred, being transferred or vacating his office or being unable to act for any reasons whatsoever the CMD, BSNL or the said officer shall appoint another person to act as arbitrator in accordance with terms of the agreement and the person so appointed shall be entitled to proceed from the stage at which it was left out by his predecessors.

12.2 The arbitrator may from time to time with the consent of parties enlarge the time for making and publishing the award. Subject to aforesaid Arbitration and Conciliation Act, 1996 and the Rules made there under, any modification thereof for the time being in force shall be deemed to apply to the arbitration proceeding under this clause.

12.3 The venue of the arbitration proceeding shall be the Office of the CMD, BSNL, New Delhi or such other Places as the arbitrator may decide.

12.4 Any party shall not use any information obtained from other party during the course of dispute resolution process under this clause for any purpose other than to resolve the dispute and such information shall not be used in any litigation.

12.5 Both parties shall use their best efforts in good faith and best intention to resolve disputes by mutual negotiation and consultation and shall settle amicably any dispute that may arise or relate to this agreement or breach thereof. Pending resolution of a dispute, the supplier shall continue to fulfil its obligations under this agreement.

13. **SET OFF:**

Any sum of money due and payable to the SUPPLIER (including security deposit refundable to him) under this contract may be appropriated by the purchaser or the BSNL or any other person or persons contracting through the BSNL and set off the same against any claim of the Purchaser or BSNL or such other person or persons for payment of a sum of money arising out of this contract or under any other contract made by the SUPPLIER with the Purchaser or BSNL or such other person or persons contracting through BSNL.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed through their respective authorized representatives on the day and year first above written.

Signed and delivered for and on behalf of BHARAT SANCHAR NIGAM LIMITED.

By _____

Signed on behalf of M/s. _____

By Shri _____ holder of General Power of Attorney dated _____ executed in accordance with the Resolution No. Nil dated _____ passed by Board of Directors.

In the presence of:

Witness:

3. _____

4. _____



APPENDIX-A TO THE AMC

DETAILS OF TECHNICAL SUPPORT CENTERS

S.N.	Location of Technical support Center	Area/Nodes Served	Postal Address	Telephone Numbers Minimum two	Mobile Phone Number	FAX Number	E-mail Address
1		1 2 3 4 5					
2							
3							
4.							
5							
6							
7							



APPENDIX-B TO THE AMC

Page 1 of 3

BHARAT SANCHAR NIGAM LIMITED
FAULT- DOCKET FOR NME NETWORK

Name of Node :

Docket Sl. No:

File No:

Date:

From:-

Name:

(of the officer in-charge/duty officer of the station)

Designation:

To,

M/s.----- (the SUPPLIER)

Address:

(of the Technical support / Center)

1. 1. Date ----- Time----- (of occurrence of fault)

1.2. Date----- Time----- (of Reporting of Fault)

2. Fault Reported to: Technical support Center (Name of the person) on phone :

3.1 Mode of Reporting : Phone, FAX, E-mail/ Pager

(Tick whichever is applicable)

3.2 Fault observed in: Main Data Centre Other Data Centre
Server Appliance Workstation Console
Miscellaneous

(Tick whichever is applicable)

4. Description of fault & observation of the reporting officer:

5. Details of Services affected :

6. Percentage of Service affected :

7. Date _____ Time _____ (of receiving the 1st assistance over phone from Technical Support Centre)

8. Details of Assistance received :

(Note: Add additional sheet if needed.)



APPENDIX-B TO THE AMC

Page 2 of 3

9. Date _____ Time _____ (of receiving the 2nd assistance over phone from Technical Support Centre)
10. Details of assistance received :
- (Note: Add additional sheet if needed.)
11. Was the fault restored by following the instructions given over phone ?
A- YES B- NO (Tick whichever is applicable)
12. If Yes, record date & time of restoration & duration of fault :
Date _____ Time _____ (in hours & minutes)
Duration of Fault: _____ days _____ Hours _____ minutes.
13. Was the fault restored :
A- Partially B- Fully (Tick whichever is applicable)
14. If the fault is not restored or restored only partially, details of observation:

(Note: Add additional sheet if needed)
15. Note date & time of giving feed back vide Srl No:14 above to the Technical support Center:
(only in the event of partial / non restoration of faults)
Date _____ Time _____ . (in hours & minutes)
16. Date & Time of arrival of SUPPLIER's Expert at sitstation of fault :
Date _____ Time _____ . (in hours & minutes)
i. Brief observation and works done by the SUPPLIER's staff / et :

(detailed entry to be made by SUPPLIER's staff in the station Log-Book)
17. Date & Time of complete restoration of the system :
Date _____ Time _____ . (in hours & minutes)
18. Total Duration of Fault : _____ days _____ hrs _____ minutes.

**APPENDIX-B TO THE AMC**

Page 3 of 3

19. Remarks of Node in charge (if any) :

20. Remarks of visiting engineer (of SUPPLIER), if any :

Signature :

Name :

Designation :

(of BSNL staff / in-charge of the station)

Note:

1. Each page of the Docket must be signed by des officer of BSNL (including the additional sheets, if attached)
2. A copy of the Fault- Docket must be sent to the Technical support Centre of the SUPPLIER, immediately by FAX / Post after restoration of fault.
5. At the time of first reporting it may not be possible to pinpoint the fault. Hence more than one box can be ticked against S.N.3.2. Similarly observation of the local impact of fault may not be possible against S.N.5. The duty officer shall provide observations which are immediately available.
6. Date and percentage of services affected shall be made available by the supplier.



APPENDIX – C TO AMC
PROFORMA FOR HISTORY SHEET
(To be submitted by the Bidder)



APPENDIX – D TO AMC

AMC CHARGES

(To be filled up as per P.O.)



Annexure-V

INTEGRITY PACT

Between

Bharat Sanchar Nigam Limited (BSNL) hereinafter referred to as “The Principal”

and

.....hereinafter referred to as “The Bidder/Contractor”

– Preamble

The Principal intends to award, under laid down organizational procedures, contract/s for ----- . The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

In order to achieve these goals, the Principal will appoint an Independent External Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

1. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
2. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
3. The Principal will exclude from the process all known prejudiced persons.
4. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section-2 Commitments of the Bidder(s) and Contractor(s)

- (1) The Bidder(s)/Contractor(s) commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 1. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 2. The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process
 3. The Bidder(s)/Contractor(s) will not commit any offence under the relevant Anti-corruption Laws of India; further the Bidder(s)/Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any

READ, UNDERSTOOD AND COMPLIED WITH



- information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
4. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- (2) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/Contractor(s), before contract award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per the defined procedure

Section 4 – Compensation for Damages

- (i) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit / Bid Security.
- (ii) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor the amount equivalent to Security Deposit / Performance Bank Guarantee in addition to any other penalties/ recoveries as per terms and conditions of the tender.
- (iii) Bidder(s) shall not be entitled to any legal course/remedy in this regards.

Section 5 – Previous transgression

- (i) The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the Anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (ii) (ii) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the defined procedure.

Section 6 – Equal treatment of all Bidders/Contractors/Subcontractors

- (i) The principal will enter into agreements with identical conditions as this one with all Bidders/Contractors.
- (ii) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact.
- (iii) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 – Criminal charges against violating Bidder(s)/Contractor(s)/Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Corporate Vigilance Office.

Section 8 – External Independent Monitor/Monitors

1. Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD of the BSNL.



3. The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality.

Notwithstanding anything contained in this Section, the Bidder(s)/ contractor(s) shall have no obligation whatsoever to provide any internal costing mechanisms or any internal financial or commercial data pursuant to any audit or review conducted by or on behalf of the Principal. Further, the Bidder(s)/ Contractor(s) shall not be required to provide any data relating to its other customers, or any personnel or employee related data.

4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
7. If the Monitor has reported to the CMD of the BSNL, a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the BSNL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Corporate Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
8. The word 'Monitor' would include both singular and Plural

Section 9– Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by CMD, BSNL

Section 10 – Other provisions

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi. The arbitration clause provided in the tender document / contract shall not be applicable for any issue /dispute arising under Integrity Pact.
2. Changes and supplements as well as termination notices need to be made in writing.
3. If the Contractor is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

For the Principal

For the Bidder/Contractor

Place.....

Witness 1 :

Date

Witness 2 :



ANNEXURE-VI

(Support Certificate)

(To be given by all partners/vendors/OEMs)

(On the Bidder's Letter Head)

To
AGM (MM)
O/o CGM STP
Chennai

Subject: University LAN implementation for BSNL - Support for Turnkey Implementation and AMC

Sir,
 It is to certify that the following hardware/software, for which M/s is the OEM, has been quoted in our (M/sname of the bidder.....) bid.

S.N.	All Hardware/ Network/ Software System	Model/ Version
1		
2		
3		
...		

We undertake to provide the following:

1. The product to be supplied are not end of life.
2. Full Professional Service Support for turnkey implementation of the project covering all the above hardware/network/ software components, their Design, Planning, Supply, Installation, customization, commissioning, integration with other components of the project, training, Operation and five year maintenance of NME network and project completion within the time schedules specified in the tender document.
3. Preparation of all the documentation pertaining to planning, design, engineering, customization, integration, installation, operations and maintenance.
4. Support for operation, maintenance and upgrades is available as per terms and conditions of Operation during warranty (one years) and AMC (4 years) on 24x7 basis from the date of commissioning.
5. Applications shall be supported on the given platform (including OS and quoted Database) for the next 5 years with effect from the date of project completion, and that patches, release, updates and upgrades shall be made available on this platform (including OS and quoted Database) for this period

We also certify that the agreement in the above respect has already been signed with the OEM.

 Signature of Authorized signatory of Bidder

 Signature of Authorized signatory of OEM/ Country Manager of OEM
 Name
 Designation



ANNEXURE- VII

Customer Letter
(On client's letter head)

Client certificate shall cover at least following:

1. Application (Name) is live and running since.....
Or
Product Name (and model)
2. Eligibility criterion:

(Signature of Authorized Signatory)

Details of the person
signing the certificate:

Name and complete postal address
Contact numbers and FAX
Email address

Postal address of the Location/ s of the Data Center

**Annexure-VIII**PERFORMA FOR SECURITY CLEARANCE OF EQUIPMENT/ SOFTWARE

1. **Name of Licensee Company:**
2. **Service Area(s) where equipment / software to be installed/used.**
 - (i)..
 - (ii)...
 - (iii)...
3. **Name & brief details of the equipment/software (including Model, Type, Version etc.) to be procured.**
 - (i)..
 - (ii)...
 - (iii)...
4. **Level of criticality of each equipment/software under procurement for use in the Network**
 - (i)..
 - (ii)...
 - (iii)...
5. **Name & Address of Original Equipment Manufacturer (OEM) (Including Technology Developer)**
 - (i)..
 - (ii)...
 - (iii)...
6. **Place of Manufacturing / Developing of equipment/ software.**
 - (i)..
 - (ii)...
 - (iii)...
7. **Name and address of all the companies involved in supply Chain including Manufacturer/supplier/vender/franchisee**
 - (i)..
 - (ii)...
 - (iii)...
8. **Details of the Board of Directors and their share holding pattern of the Company of Manufacturer/ supplier/ vender/ franchisee (details as per Performa Annexed to Appendix – D)**
 - (i)..
 - (ii)...
 - (iii)...
9. **Port of Origin of each Equipment/ Software under procurement for use in the Network.**
 - (i)..
 - (ii)...
 - (iii)...



Appendix to ANNEXURE- VIII

Performa for furnishing details of all the company of Manufacturer / Supplier / Vendor / Franchisee involve in supply chains.
(Please use separate sheet for each company of Manufacturer / Supplier / Vendor / Franchisee)

Details of Company:

- (i) Name of the Company:
- (ii) Whether Manufacturer/supplier/ :
- (iii) Details of current Shareholders of the company reported on as per Table given below :

Sl.	Name of Shareholder(s)	Indian / Foreign	Equity held in the company (Percent)
1.			
2			
....			

- (iv) Details of following executives of the Company reported on as per Table given below :

Sl. No.	Designation	Name	Nationality
1.	Board of Director (s)	1 2 3	
2.	Chairman		
3.	Managing Director		
4.	Chief Executive Officer(CEO)		
5.	Chief Financial Officer(CFO)		
6.	Chief Security Officer(CSO)		
7.	Chief Officer Incharge of Technical Network Operation / CTO		



Annexure-IX
Check List of the Documents to be enclosed with Bid

Sl.No	Section	Clause No	Requirement
1	Section-II	7 (d)	Bid form
2			Bid document signed and sealed on all pages
3	Section-I	NIT	Integrity Pact
4	Section-II	10.1.I	Certificate of incorporation
5	Section-II	10.1.II	Article or Memorandum of Association or partnership deed or a Proprietorship deed
6	Section-II	10.1.III	Registration certificate from State Director of Industries or from Secretariat for Industrial Approval (SIA) , Ministry of Industries, Government of India.
7	Section-IV-A	3.1	Documentary proof of the bidder company shall be an IT/Networking/system integrator company registered and incorporated in India under the Companies Act, 1956 and shall have been in existence for at least 5 years at the time of bid opening.
8	Section-II	10.1.IV	Approval from Reserve Bank of India /SIA in case of foreign collaboration
9	Section-II	10.1.V	Latest and valid NSIC Certificate duly certified by NSIC.
10	Section-II	10.1.VI	Type Approval Certificate (TAC) issued by Telecom Engineering Centre/ TSEC issued by QA circle or proof of having applied for TEC/TSEC (Copy of Form B/QF 103 be attached. (If applicable)
11	Section-II	10.1.VIII	Undertaking duly signed by front bidder and its technology/consortium partner stating that both of them shall be liable for due performance of the contract jointly and severally for the entire duration of the contract
12	Section-II	10.2 (i)	Annual Report and a certificate from its bankers as an evidence that he has financial capability to perform the contract
13	Section-IV-A	3.2 (a)	Proof of Turnover
14	Section-IV-A	3.2 (a)	Letter from their company indicating the details of authorized signatory for the company.
15	Section-IV-A	3.2 (b)	Documentary proof that the bidder has made profits in the last two financial years (i.e. 2008-09 & 2009-10).
16	Section-IV-A	3.2 (b)	Certificate from the banker regarding the financial capacity to the extent of Rs. 200 Crores to execute this tender.
17	Section-II	10.2 (ii)	Documentary evidence about technical and production capability necessary to perform the contract.
18	Section-II	14.4 (i)	The Power of Attorney specific to this tender should be submitted
19	Section-II	14.4 (ii)	Authorization by the Board of Directors of the bidder for Power of Attorney on behalf of the Company/Institution/Body Corporate.
20	Section-II	22.2.(vi)	Cenvat Registration



21	Section-II	34	Certificate that No near relative by all the Directors of the company
22	Section-III	11.4	The bidder has to give the mandate for receiving the payment costing Rs.5 lacs and above electronically as per Proforma-B
23	Section-IV-A	3.3	Certificate w.r.t. bidder not a Telecom Service Provider in India
24	Section-IVA	3.7	ISO 9001:2000 or equivalent certificate of the place of manufacturing for all the products i.e. OEM products, OF cable items and UTP Products
25	Section-IVA	14.1	The proforma for security clearance for equipment /software as per Annexure-IX along with its Annexure
26	Section-II	7 (c) , 11(c)	Clause by Clause compliance to the Commercial conditions (Section-III), Special conditions (Section IVA and Section IVB) and Technical Specifications (Section VI), Facility management (Annexure-III), AMC (Annexure-IV)
27	Section-II	11(c)	Statement of deviations or Nil deviation statement
28	Section-II	10.5	A signed undertaking from Authorised Signatory of the bidder that shall certify that all the components/parts/assembly/software used in the Desktops and Servers like Hard disk, Monitors, Memory etc. shall be original, new components/parts/ assembly/software and that no refurbished/duplicate/ second hand components/parts/ assembly/software are being used or shall be used.
29	Section-II	10.6	For supply of any software i.e. operating system or any applications software the bidder should have a Certificate Of Authenticity (COA), signed by Authorized Signatory stating that all Software supplied are authentic and legal copy is/are being supplied.
30	Section-IVA	13.6	A certificate to the effect with respect to the clauses 13.1 to 13.5
31	Section-II	11.2 (a)	Technical literature, Drawings and Data sheets of the products
32	Section-II	11.2 (b)	Documents regarding spare parts, special parts etc
33	Section-III	23	Name of his collaborator (if applicable), brand name, model no. and type of the products offered in this tender.
34	Section-IVA	3.5.1	The bidder shall provide the list of the technology partner and hardware/ software solutions proposed in the Bid. The bidder shall furnish signed letters from all the partners stating their participation in the said tender.
35	Section-IVA	3.5.2	The front bidder shall submit an irrevocable undertaking duly signed by it and its technology / consortium partner stating that both of them i.e the front bidder and its technology / consortium partners shall be liable for due performance of the contract, failing which both of them shall be liable to be barred from having any business dealing with BSNL for a period of 3 years.



36	Section-IVA	3.5.3	The bidder shall submit back-to-back agreement with each of the partners for routers, Switches & firewall separately, to ensure that respective product support for implementation, operations, maintenance, spares and upgrades are available for a minimum period of 5 years excluding the period of implementation from the date of commissioning the product/service.
37	Section-IVA	3.5.4	An OEM may either bid himself or through a single authorized partner. A certificate for the same shall be furnished from the OEM.
38	Section-IVA	4.4	Transfer of Technology Agreement
39	Section-IVA	4.3	Certificate from OEM regarding Professional Service support for the commissioning of the Project
40	Section-IVA	4.3	Undertaking from OEM for the support including availability of the spares, patches for the quoted products.
41	Section-IVB	8.1	OEM hardware & software service support undertaking
42	Section-IV-A	3.4.1	Proof of supply, installation, integration, testing, commissioning and successful completion of at least 3 projects of minimum 100 LAN nodes each and shall be working satisfactorily on the date of NIT.
43	Section-IV-A	3.4.1	Proof of the bidder having an experience of executing at least one turnkey project.
44	Section-IV-A	3.4.3	Certificate by the purchasers - The bidder or his OEM should have supplied a minimum of 50 Routers, 50 L-3 switches, 200 Edge Switches of the same Model / series to any Network
45	Section-IV-A	3.4.4	Field performance certificate
46	Section-IVA	4.1	Clear development roadmap for the next 5 years.
47	Section-IVA	4.3	Confirmation that the Product quoted are not end of life products.
48	Section-IVA	3.6	The list of test and repair facility along with address
49	Section-IVA	4.2	List of support locations
50	Section-IVA	4.5	The Bidder/OEM shall have atleast four regional test & repair centre or faulty parts replacement facility in India, one in each zone.
51	Section-IVA	4.6	Spares management procedure during warranty and AMC
52	Section-IVA	4.7	Details of technical staff available in its rolls for executing this project
53	Section-IVA	27.5	Fault control and repair process

*Other necessary documents in addition to the above shall be submitted by the bidder as deemed fit.