



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

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BSNL- AIET Incubation Centre

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BSNL
INCUBATION CENTRE
IN
AVANTHI INSTITUTE
OF ENGINEERING AND
TECHNOLOGY



(Accredited by NAAC)

Approved by AICTE, Recognized by the Govt. of A.P. & Permanantly Affiliated to JNTU - GV

Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

INCUBATION CENTRE

IN

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
VIZIANAGARAM

The main objective of the Incubation Centre is to help young budding engineers in developing innovative ideas to take care of societal needs and to seed in the student's minds about startups. The institution has unique labs such as Nano Technology, Electro Lounge, Coding Lounge, Invention Studio & Advanced Manufacturing in addition to regular curriculum labs. The strength of Avanthi Institute of Engineering is the highly qualified and well-experienced teaching faculty with many of them having an educational background in reputed institutes like IITs & NITs. Faculty had a number of contributions that are technically sound in many reputed International Journals highly indexed by SCI, Scopus, Web of Science, etc.

In association with BSNL Visakhapatnam, the Centre needs to operate with advanced technological applications in the implementation and integration of new technologies like M2M communication, IoT, AI, and Blockchain technology application projects in totality. Introducing prototype applications like Power sector Operation & Maintenance utilizing smart metering applications for HT & LT services, monitoring of power distribution systems through SCADA projects, Water distribution system SCADA project, and Smart City application in which monitoring from the centralized DASH board of all the smart poles, smart signaling, smart bus stations and the terminals, SONAR, RADAR, GPS applications using in the Fisheries, smart agriculture using DRONE technologies, DIP irrigation operating remotely, Various marine applications, Defense applications like the movement of the War ships, submarines are the some of the real-time monitoring application and establishing Robotics lab of O, A and B levels.

DIRECTOR
Avanathi Institute of Engg. & Tech.
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 न.प्र. ३, बंगला, चौ. एम.ड.
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Committed for achieving Excellence in Technical Education

Antenna Engineering:

The students and faculty working in antennas and RF designs have done several projects. So far communication research group designed and developed horn antennas, Microstrip patch antennas, textile antennas, and bio-medical antennas for different kinds of applications. The designed antennas must be validated by comparing simulated and measured reflection coefficients. The antenna validation will be done by the VECTOR NETWORK ANALYZER (VNA). With VNA it is possible to identify the resonating frequency, bandwidth, VSWR, Impedance and Gain of antenna. VNA is useful in testing all the antenna parameters.

Digital Transmission Systems:

Establishing fiber Digital technology systems right from its inception i.e. PDH (Plesynchronous Digital Hierarchy), SDH (Synchronous Digital Hierarchy) systems of STM-1, STM-4 & STM-16, etc, DWDM (Dense Wave Length Digital Multiplexing) systems. Optical Line Terminal (OLT), Optical Splitters, Optical Network Unit (ONU/ONT), etc to establish Fibre to the Home (FTTH) connections with Voice and high-speed data connectivity for domestic, commercial, and corporate customers with different technologies EPON, GPON, and GEAPON.

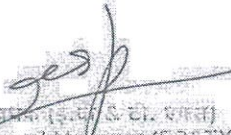
Optical Fiber cable accessories & Testing Instruments:

Different types of Optical fiber cables 2F/4F/6F/12F/24F/48F/96F and 288F, different types of optical patch cards (FC-FC, FC-LC and FC-SC cards), Optical Fiber cable Testing & measuring instruments like Optical Fiber Splicing Machine, Optical Time Domain Reflectometer (OTDR), Optical Power Meter.

Networking & its accessories:

Different types of Routers, Managed switches, unmanaged switches, different types of Modes used in Copper / Fiber technology, different types of LAN cables like CAT 5 & CAT 6 interface Ethernet cables manufacturing tools and its testing meters, Different types of modes to converting Electrical to Optical and Optical to Electrical with bandwidth capacities 10/100/1Gbps and its testing instruments.

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The following are some of the guidelines to be followed for the establishment/expansion of the existing Incubation Center by adding different Communication Systems; ICT; Data Communication; latest IoT (Internet of Things) applications; M2M (Machine to Machine Communication) applications; SCADA (Supervisory Control and Data Acquisition) applications in Power and Water distribution system etc. Also monitoring and upgrading the different technologies which are to be implemented in the future for the implementation of the smart solutions.


Prototype Water SCADA project:


This is a helpful student project that teaches theory and application by applying all the courses learned especially the ones that are about Instrumentation, Process Application, Digital and Analog Electronics, and computer programming. Supervisory Control and Data Acquisition (SCADA) based pumping water station is designed to collect field information, transfer it to a central computer facility, and display real-time operational data to the operator graphically or textually thereby allowing the operator to monitor or control an entire system from a central location in real-time. Also real-time monitoring of the water distribution up to the delivery point using individual water consuming meters, and its real-time monitoring with respect to wastage using SCADA DASH Boards.

Latest smart Applications:

a) RF ID in Medical Applications:

Medical information systems are expected to be useful for both logistical and medical personnel. As such, the systems are reliant upon the sensors implemented to acquire information for both groups. Currently, such sensors may be divided by their competency in environment sensing or object identification. Typically, environment sensors are limited by their per-unit price, reducing their scalability. Similarly, current object identification systems involve barcodes which are limited by line-of-sight (LOS). Radio-frequency identification (RFID) proposes a reasonable solution to both problems, through comprehensive and cheap tag designs. Such designs allow real-time monitoring of medical equipment, patient medication adherence as well


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as new means of disease diagnosis in patients. Consequently, RFID may be viewed as an avenue for improving both medical equipment logistics and diagnostic options.


b) Boom Barrier:

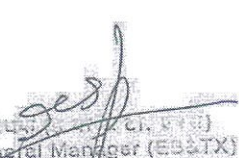
Boom Barrier is a Bar or Pole placed at a pivot to move and up down in order to control access of vehicles in a particular premises. It is used for both Commercial and Residential purposes. The Operation of an Automatic Security Gate or Boom Barrier varies in Size, Shape, and Operation. If you want to Protect your Home or Business a Boom Barrier is an added Security. It ensures that you are in control of vehicle movement within your premises. There are several versions of the Boom Barrier such as Hydraulic, Electromechanical and Manual boom barriers. One of the distinguishing features is their simplicity of assembly.

Robotics:

Robotics today is undergoing a transformation with robots increasingly stepping out of their factory cages. At the robotics lab, we specialize in the mechanical design and algorithmic control of physical interaction between the robot and its environment at O, A & B levels. All the branches of the students can enroll and learn all the levels and obtain certificates for each level and the same applications can be in corporate for their internship/project works/ innovative / invention application for the multi-branch projects in coming days with hands on experience at the college premises itself with the guidance of the Industry / service organization.

Finally, the establishment/enhancement of incubation center will help the AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY to organize the Faculty Development Programmes (FDP) in support with the Industry experts to bridge the gap between academic and the industry and to develop / demonstrate the latest innovative applications using live / proto type models and enhance the hands on experience skills for the faculty and for the students. Also, this will facilitate to introduce of upcoming technologies with less expenditure in the coming days with less financial burden. Hence the proposal for the financial assistance from MSME to augment the existing INCUBATION Center with latest technology testing and proto type models is the need of the future please.


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BSNL will supply some of the available equipment and accessories free of cost and the remaining will be procured by the AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY and the technical support will be extended by BSNL for the procurement and installation with the support of different vendors to establish the following labs:

1. DIGITAL TRANSMISSION SYSTEMS:

- PRIMARY CHANNEL MUX : BSNL Will supply
- PDH SYSTEMS :BSNL Will supply
- SDH SYSTEMS: BSNL Will supply
- OFC TESTING INSTRUMENTS, METERS like Splicing Machine; OTDR; Optical Power Meters; Variable Attenuators; Digital Transmission Analyzers; Ethernet Tester (10Mbps / 100 Mbps/ 1Gbps)
- OFC ACCESSORIES i.e. different types of Optical connectors; Patch Cards etc.
- Different types of Optical Convertors (10/100 Mbps; 1Gbps etc)
- Optical Fiber Cable (4F)

2. DIGITAL MOBILE COMMUNICATION:

- Different Types of 2G / 3G sector antennas: BSNL Will supply
- Indoor Booster Systems
- Radio Power Meter
- VSWR Meter

3. DIGITAL MICROWAVE LINKS:


Installation of one 100 / 200 Mbps DMW link with Antenna / ODU / IDU systems

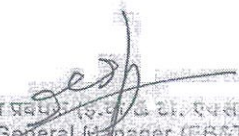
4. FTTH TECHNOLOGY:

OLTE Equipment with Optical Splitters and ONUs.

5. DATA COMMUNICATION:

- Basic Routers
- Managed Switches
- Unmanaged Switches
- Different types of Copper / Optical Modems
- Bridge routers


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विशाखपटनम / Visakhapatnam

- Punching Tools
- IO Box
- CAT 6 cable
- Crimping tool
- RJ 45 Connectors

6. Enterprise Wi-Fi Establishment:

- Enterprise Wi-Fi Access Point
- Pi(Radius/ Web Portal) Device
- Scan Disk Memory Card
- PoE Injector / PoE Switch


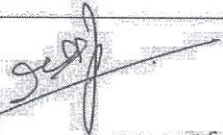
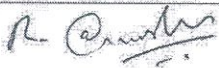
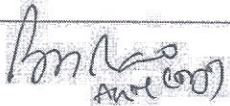
7. SCADA Prototype model with DASH Boards: Water Distribution Project

8. SCADA Prototype model with DASH Board: Power Distribution Project

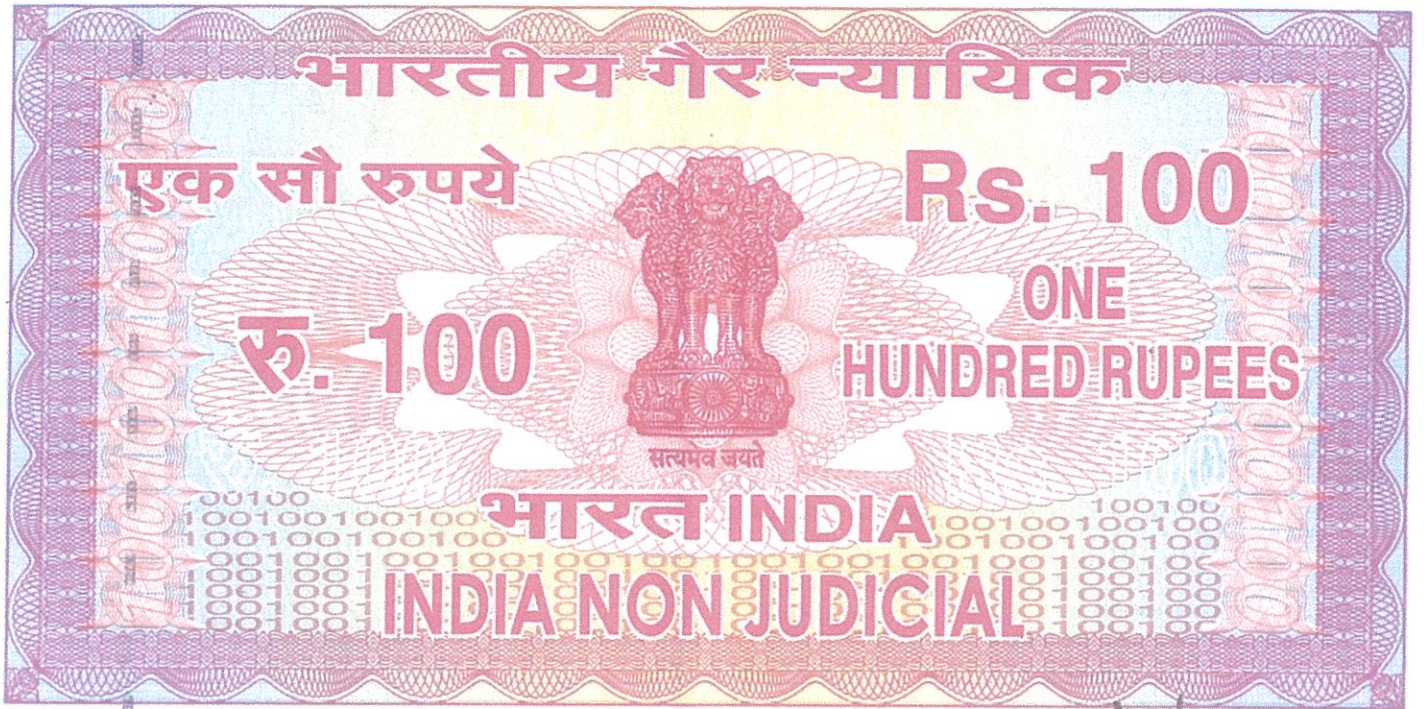
9. Robotics Lab (O; A&B Level) with 3 years warrants with FDP.

10. METAVERSE LAB

In addition to the above, some more applications related to other branches can be added and the latest applications will be added in due course of time for the hands-on experience for the utilization of all branches of engineering students for the development and presenting innovative thoughts and ideas for to become future entrepreneurs, to initiate start ups etc.

For AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY	For BSNL
Signed: 	Signed: 
Name: Dr. A. CHANDRA SEKHAR & tech	Name: Dr. M. SATYA PRASAD
Title: Director	Title: Deputy General Manager
Date:	Date:
1) Witnessed by	1) Witnessed by
Signature: 	Signature: 
Name: Dr. B. Avinash Ben.	Name: B. SRINIVASA RAO

**Memorandum of Understanding
For
Technical / Management Courses
Between
AVANTHI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
Cherukupally (Village), Vizianagaram
and
BHARAT SANCHAR NIGAM LIMITED
Visakhapatnam**



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

4334 26/05/2023 100/-

N. Sankar
Smt DB 626854
ANCED STAMP VENDOR
02/2015, R.L.No. 03-02-01
Chilakavari St., Bheemuntla
Tirumala Dist., Cell: 79

For Whom
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Tirumala Dist., Cell: 79


Memorandum of Understanding

This Memorandum of Understanding is entered into and executed on this 30th day of June, 2023 at Visakhapatnam BY AND BETWEEN AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (hereinafter called "AVANTHI"), represented by its DIRECTOR, having its office at Cherukupally (Village) Near TAGARAPUVALASA Bridge, BHOGAPURAM (Mandal), VIZIANAGARAM (Dist), which expression shall, where the context so admits, be deemed to include its successors, executors and administrators of the ONE PART

AND

Bharat Sanchar Nigam Ltd., (hereinafter referred to as the "BSNL") a company registered under the Companies Act, 1956, through its Principal General Manager, Visakhapatnam Telecom District having office at 1st Floor, BSNL Bhavan,


DIRECTOR
Avanthi Institute of Engg & Tech,
Cherukupally (V), Bhogapuram (M)
Vizianagaram (Dist)-531167



Deputy General Manager (X)
న.ప్ర. వి.జి.కా. / O/o BSNL
జా.స.ని.ని. / B.S.N.L.
దాబగడెన్ / Dabogarden
విశాఖపట్నం / Visakhapatnam


Dabagardens, Visakhapatnam-530020 (which expression, unless it be repugnant to the context or meaning thereof, shall be deemed to mean and include their executors, administrators and assigns), party of the SECOND PART.

WHEREAS, **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** has initiated to provide competency based employability enhancement skills for Technical & Management courses as approved / Recognized by appropriate Government Authority & where as BSNL Training Center in Visakhapatnam Telecom District is required to perform the role and function of providing hands on skill training to 2 years / 4 years / 3 years / Diploma / B.Tech / M.Tech / MBA /MCA students in ECE, IT and Computer Sciences and Engineering and all its related areas. WHEREAS the First Party has to nominate the number of students for the various programs offered by BSNL-TP and WHEREAS the Second Party has expressed its keen interest and desire to be a key partner in the execution of this program in terms of the objectives of the scheme and policy as highlighted and specified in the said program and particularly in view of the desire and interest of BSNL to join and partner with **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** in providing competency based skills through its training center in Visakhapatnam.

WHEREAS both parties have held discussions and agreed for collaboration for conducting training Under this MOU and in GENERAL for Technical & Management Courses whereby BSNL will impart the requisite training and award credits for the training conducted on its own, to the registered students. THEREFORE, both the parties hereby agree that the Training Center at Visakhapatnam of BSNL, as approved and recognized by BSNL and **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** from time to time shall be known as an act / perform the role of "Training Providers" in GENERAL for Technical & Management Courses initiated by **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** on the following terms and conditions:

1. That BSNL agrees that Training center in Visakhapatnam set up by BSNL and herein after to be referred as "BSNL-TP" shall act and perform the role of Training


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भा.स.वि.वि. / B.S.N.L.
डायनर्सी / Dabagardens
विशाखपटनम / Visakhapatnam

Provider to provide hands on skill training in specific sector such as Telecommunications and Management courses and all its related areas.

2. That BSNL agrees and undertake that its "BSNL-TP" conduct skill training in specific sector such as Telecommunications and Management courses and all its related areas and shall perform following functions:

- a. Announce the schedule of skill training modules for calendar year.
- b. Register students for the modules and upload the same on BSNL website.
- c. Conduct the skill modular training.
- d. Conduct examination / evaluate the student, award the grade indicating completion of Training and uploading the same on the BSNL website.
- e. The BSNL-TP recognized and approved by BSNL may register students as provided by the **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**.


3. The BSNL-TP as specified in the Memorandum of Understanding, may take flexible training timing and schedule in consultation with **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**.


4. The BSNL-TP shall announce and inform through its website, the schedule of the Skill Modules it plans to offer in the academic year concerned for the information of the prospective students and it shall accept the students as provided by **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**.

5. The BSNL-TP shall be entitled to the fees as mentioned in the Table 1 below.

6. Minimum 50% of the students must be sent for Internship, Project, Certified courses in Engineering and Management streams during MOU period.

7. The BSNL-TP will conduct appropriate training sessions as per the following pedagogy.


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Deputy General Manager (Engineering)
न.प्र. द.वि.का. / ओ.टी.डी.
भा.र.वि.का. / ओ.टी.डी.
डावनेर / ओ.
विशाखपट्टनम / व.

a) These various programs on different topics under this project will focus on practical hands-on training in field / practical supplemented with structured academic content that shall be provided online and may be supplemented with appropriate theory sessions to the students of **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** in Technical streams.

b) Practical sessions shall be held in flex-mode that shall expose the students to various Telecom equipment in terms of their operations.

c) Academic content shall focus on the various operational procedures / facets of the Telecom equipment / technologies present in the BSNL network related to the practical sessions in an attempt to provide the student with high end equipment handling practical skills *as opposed to rote learning*.

d) Academic Structure of Programs:


1. **BSNL Certified Courses for Engineering Stream:** The complete spectrum of Telecom practical skill learning shall be divided into 7 modules. The duration of the skill-part of the program in BSNL set-ups / training centers shall be incorporated into three academic semesters of conventional engineering education B-Tech / M.Tech (ECE & Computer Science and Engineering) starting with 5th semester: 35 practical sessions of 2 hours each (70 hrs) : 10 field visit sessions of 2 hours each (20 hrs)


2. **INTERNSHIP / Project (4/6 weeks):** 16 Theory sessions of two hour each (32 hrs) & 8 Practical sessions of 2 hours each (16 hrs)

3. **INTERNSHIP/Project (2 weeks)** : 5 Theory sessions of two hour each (10 hrs) & 4 Practical sessions of two hours each (8 hrs)

4. **Online Certificate Program (8 weeks)** : 8 Practical sessions of four hours each (32Hrs).

This program is offered mainly on Telecom related, IT & Computer networking content:


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उप-नगर प्रबन्धक (इ.स. विभाग)
Deputy General Manager (E&T)
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भा.सं.वि.सी. / B.S.N.L.
डाबगर्डस / Dabagardens
विशाखपटनम / Visakhapatnam

Broadband Technology, Digital Switching Systems, Digital Transmission Systems, IP Networking and Cyber Security, Mobile Communications (2G/3G/4G/5G&6G) , Optical Fiber Technology & Telecom Support Infrastructure, IoT, M2M, Artificial Intelligence and related applications in the latest convergence of Access Technologies.

5. Apprenticeship for Diploma students: 6 Months

6. Seminar: Four Hours session

7. Industrial visit: Field visit for four Hours


8. INTERNSHIP/Project: As per the Institution requirement duration of the Internship / Project will be finalized. However, the new courses will be designed in accordance with the demand from **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** fee also decided in negotiation with both parties accordingly

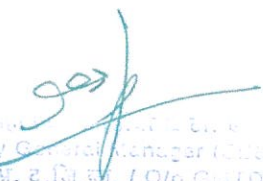
e) In brief, the training sessions shall introduce the trainee to various planning and operational aspects, e.g. subscriber creation, route creations, network optimization, network performance monitoring, fault rectification, traffic reporting, network planning and dimensioning, etc. And in management perspective include personality management, marketing planning strategy etc.

f) The online content / theory sessions provided shall support material (soft copy) for the practical sessions in terms of descriptions and explanations obtained from our equipment manuals. Normally, it shall not address theoretical concepts that students learn as part of communication engineering.

g) In addition to that an over view on improvement of communication skills, soft skills and preparation of curriculum vita etc., will be imparted as an additional advantage.

h) **FORCE MAJEURE:**


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Deputy General Manager (G&TX)
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भा.सं.मि.सं. / B.S.M.S.
डाबगर्डन / Dabgardens
विशाखपटनम / Visakhapatnam

If at any time, during the continuation of this Memorandum of Understanding, the performance in whole or in part, by other party, of any obligation under this is prevented or delayed, by reasons of war, or hostility, acts of public enemy, civic commotion, sabotage, act of state or direction from statutory authority, explosion, epidemic, quarantine restriction, strikes and lock-outs, fire, floods, natural calamities or any act of God (hereinafter referred to as event), provided notice of happenings of any such events is given by the effected party to the other within 7 calendar days from the date of occurrence thereof, neither party shall, by reasons of such events be entitled to terminate the Memorandum of Understanding, nor shall other party have any such claims for damages against the other in respect of such non - performance or delay in performance. Provided service under the MOU shall be resumed as soon as practicable, after such event comes to an end or ceases to exist. The decision of BSNL as to whether service may be so resume (at the time frame within which the service may be resume) or not, shall be final and conclusive. However, the Force Majeure events noted above will not in anywhere cause extension in the period of the MOU.


i) Dispute resolution and arbitration:

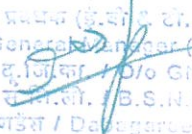
a. In case of dispute there shall be an arbitration committee comprising of representative/s nominated by Board of Management, **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**, Cherukupally (Village) Vizianagaram and representative/s nominated by Head of Visakhapatnam **BSNL telecom** district, Visakhapatnam. The decision of the arbitration committee shall be binding on both parties.

b. The Memorandum of Understanding shall be subject to exclusive jurisdiction of courts at Visakhapatnam only.

ii) Arbitration Clause:

Except as otherwise provided elsewhere in the contract, in the event of any disputes, controversy, or differences arising out of or relating to this MOU, or the breach, termination or invalidity thereof between the parties, such party or parties


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भा.स.न.ल. / B.S.N.L.
डावागडस / Dalagarsas
विशाखपटनम / Visakhapatnam

shall make a request to the other party or parties to amicably settle such differences or disputes and parties shall thereupon make every effort to settle the same amicably within a period of 60 (sixty) days from the date of making of such request.


Where parties are unable to settle the disputes through conciliation, the same shall be referred to the authority in BSNL (GMTD Visakhapatnam) for referral of such disputes to a sole arbitrator (chosen from the name(s) provided by BSNL), to be mutually decided by the parties, as per the provisions of the Arbitration and Conciliation Act, 1996, any amendment thereof, and any notification issued or rules made there under from time to time.

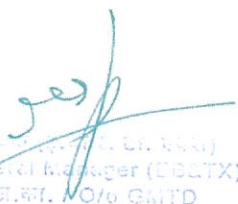
The venue of the arbitration proceeding shall be Visakhapatnam.

1. Duration of the Program: 8 weeks after graduation and 12 weeks for students who are currently enrolled: The training may be spaced between 5th, 6th, and 7th semesters, covering all seven certificate programs, for the currently enrolled students. (35 practical sessions of 2 hours each + 10 field visits of 2 hours each making a total of 90 hours; the distribution of which may be decided in consultation with the technical campus.

Fee for the courses:

- a. Fee for BSNL Certified course: Fee shall be limited to and not lesser than Rs.10, 000 + GST per semester per student totaling to Rs. 30,000 + GST per student across the three semesters.
- b. Fee for Internship (2 weeks) course: Fee shall be limited to and not lesser than Rs.2, 500 +GST.
- c. Fee for Internship (6 weeks) course: Fee shall be limited to and not lesser than Rs.6, 000 + GST.
- d. Fee for Online certificate program course: Fee shall be limited to and not lesser than Rs.5, 000 + GST.
- e. Fee for Seminar: Nomination of the faculty from BSNL on need basis.
- f. Fee for Industrial visit: Rs.250/- +GST per student for one day
- g. Apprenticeship for Diploma Students : Rs.10000/- + GST


DIRECTOR
Avanthi Institute of Engg.&Tech.
Therukupally (V), Bhogapuram (M),
Vizianagaram (Dist) - 511162


Deputy General Manager (ED&TX)
श.म. व.वि.स. NO/6 GMTD
आ.वि.वि.स. / B.S.N.L.
इलाहाबाद / Delhi, India
Rishabhapatnam / Visakhapatnam

2. PAYMENT TERMS:

- a) For BSNL Certified courses, Internship and Project trainings, fee will be directly paid by the student to BSNL.
- b) For On-Campus training fee will be paid directly by the AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY to BSNL Visakhapatnam in the form of NEFT to AO (Cash) O/o BSNL Visakhapatnam before ten days, the commencement of the course program on revenue share basis (70:30).
- c) Amount paid / deposited cannot be refunded under any circumstances.

Revenue sharing (On-Campus trainings):

For On-Campus training (Certified courses, Internship training and Project work) revenue will be shared on 70:30 (BSNL: AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY). AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY will arrange accommodation and other logistics to conduct training classes in the AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY premises and practical will be conducted in the BSNL premises.


Note: Course fee will be reviewed / enhanced as per the BSNL corporate office guidelines.

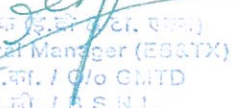
3. Relevant Documents

A Comprehensive report (Attendance / Evaluation etc.) of the training shall be furnished by BSNL TP, Visakhapatnam to AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY.

4. Process Methodology:

- a. AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY may inspect the training programs randomly by authorized persons and binding on BSNL TP , Visakhapatnam to extend all support to AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY , Vizianagaram


DIRECTOR
Avanthi Institute of Engg.&Tech
therukupally (V), Bhogapuram (V)
Vizianagaram (Dist.)-531163


उप महा प्रबन्धक (इ.ए. & टी. ए.ए.)
Deputy General Manager (EG&TX)
न.प्र. दु.वि.का. / O/o GMITD
भा.सं.वि.ली. / B.S.N.L.
डाबगईरा / Debugarons
विशाखपटनम / Visakhapatnam

- b. BSNL TP, Visakhapatnam will rectify any shortcomings observed during the visit on an immediate basis.

A summary of the all programs that shall be delivered under this Memorandum of Understanding are as per schedule II.

5. The BSNL - TP will evaluate the students for the Training Skills and award grades and such grade sheet be submitted to the **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**.

6. The BSNL - TP shall maintain a record of the registered students and certificates issued and upload the same on the BSNL web portal.

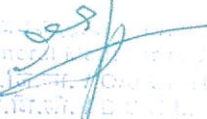
7. **No Confidentiality:** There shall not be any confidentiality of any information disclosed to by both parties to each other, either in operationalizing this Memorandum of Understanding or for the purposes of implementing this Memorandum of Understanding. The information sought under Right to Information Act or otherwise by any student, shall be promptly made available.

8. The BSNL agrees and undertakes that the BSNL - TP as recognized and approved by **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**, shall act as Training Provider in terms of the Memorandum of Understanding signed by them with the **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** and the Memorandum of Understanding to be signed between the **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** and the Training Provider shall provide the details regarding the schedule of operation, in order to protect the interest of students and all concerned stakeholders.

9. The BSNL shall participate, operate and execute the scheme strictly in accordance with the scheme in GENERAL for Technical & Management Courses initiated by **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** and shall not indulge in any violation of the scheme.

10. Both the parties shall indemnify and keep the other party indemnified and harmless against any and all claims, actions, proceedings by third party (including all costs, expenses, damages / losses) arising out of or in connection with this MOU


DIRECTOR
Avanthi Institute of Engg & Tech.
Herukupally (V) Bhogapuram (A),
Gizianagar (P), Pin-531162


Deputy General Manager (LT(X))
M. V. S. RAO, G.O. No. 10
B. S. RAO, B. S. RAO
BSNL / Visakhapatnam
Bhimadipatti / Visakhapatnam

due to breach of any provisions of this MOU by such party or as a result of any act of negligence / omission or commission on part of such party and / or its employees, agents etc.


11. The present Memorandum of Understanding can be terminated by the **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY / BSNL** by giving a notice of one month to BSNL / **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** without assigning any reason in this regard and the **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY / BSNL** shall have no claim against each and its officials on account of termination of such Memorandum of Understanding. However, the responsibilities and duties of both parties in respect of the common students already registered shall not end with the termination of the Memorandum of Understanding, and these will remain valid in totality until completion of evaluation of the already registered students and reporting of their results by both parties.

12. Effective Date:

This Memorandum of Understanding is effective from the date signed by both the parties will be valid for a period of FIVE years until determined, suspended or terminated earlier.


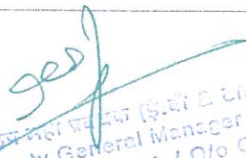




DIRECTOR
Avanthi Institute of Engg. & Tech.
Cherukupally (V), Bhogapuram (T)
Vizianagaram (Dist)-531161



उप महा प्रबन्धक
Deputy General Manager (Tech. Ed.)
न.प्र. द.वि.पी. / ओ.सी.ई.
आ.स.वि.पी. / ए.सी.ई.
डाबगडस / Dab Gads
विशाखपटनम / Visakhapatnam

IN WITNESS WHEREOF, the parties hereto, each acting under due and proper authority, have executed this mutually binding Memorandum of Understanding as of the date first written above.

For AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY	For BSNL
Signed:	Signed:
 DIRECTOR Avanthi Institute of Engg. & Tech Herukupally Vizianagaram (Dist.)-531162	 Deputy General Manager (BSCIX) Deputy General Manager, I/O GMD BSCIX BSCIX
Name: Dr. A. CHANDRA SEKHAR	Name: Dr. M. SATYA PRASAD
Title: Director	Title: Deputy General Manager
Date: 30-06-2023	Date: 30-06-2023
1) Witnessed by	1) Witnessed by
Signature: 	Signature:  B.S. SAIDEVADAS RAO
Name: Dr. B. Avinash Ben.	Name: B. S. SAIDEVADAS RAO



vinay kumar Midathada <m.vinaykumar.211993@gmail.com>

Fwd: Quotation

2 messages

Principal Avanathi Institute of Engineering and Technology (Q7) <principal@aietta.ac.in>

Sat, Jul 22, 2023 at 11:44 AM

To: Dr Gandhi Satyanarayana <hod.cse@avanthi.edu.in>, "m.vinaykumar.211993@gmail.com" <m.vinaykumar.211993@gmail.com>

----- Forwarded message -----

From: **Principal Avanathi Institute of Engineering and Technology (Q7)** <principal@aietta.ac.in>

Date: Sat, Jul 22, 2023 at 11:38 AM

Subject: Fwd: Quotation

To: Dr Gandhi Satyanarayana <hod.cse@avanthi.edu.in>

Cc: <director@aietta.ac.in>

----- Forwarded message -----

From: **Excelelectronix** <excelelectronix@gmail.com>

Date: Sat, Jul 22, 2023, 9:54 AM

Subject: Quotation

To: principal@aietta.ac.in <principal@aietta.ac.in>

Dear Sir,

Kindly find the attached quotation.

Thank you,

Udayakumar D
Excel Electronic
No 28, Wallers Road,
Mount Road, Chennai - 600002
044-28548246, 28585500
09444013901

2 attachments **24 -QTN AVANTHI INSTITUTE_.xlsx**
15K **24 -QTN AVANTHI INSTITUTE_1.xlsx**
15K**vinay kumar Midathada** <m.vinaykumar.211993@gmail.com>

Thu, Oct 12, 2023 at 9:29 AM

To: venkatalakshmiavanthi@gmail.com

[Quoted text hidden]

2 attachments **24 -QTN AVANTHI INSTITUTE_.xlsx**
15K **24 -QTN AVANTHI INSTITUTE_1.xlsx**
15K



vinay kumar Midathada <m.vinaykumar.211993@gmail.com>

PURCHASE ORDER

avanthi administration <avanthi.admi@gmail.com>

Tue, Jul 25, 2023 at 1:31 PM

To: educatesatya@gmail.com, naresh patnala <nareshpatnala1@gmail.com>, Shravan Kumar Iska <shravaniska@gmail.com>, santu_sand@yahoo.co.in, "excelelectronix@gmail.com" <excelelectronix@gmail.com>, "m.vinaykumar.211993@gmail.com" <m.vinaykumar.211993@gmail.com>

Dear supplier

We are happy to inform you that we are pleased with your quotation and in this mail we had attached the Po look into it and release the purchase order .

Thank you.

Best Regards

B NITHIN KUMAR

Avanthi Institute of Engineering Technology

Tagarapuvalasa.



excel electronics po.xlsx.docx

31K

GSTIN NO : 33AACTE4857B1ZU

PH: 044-28548246

EXCEL ELECTRONIC

Suppliers of : Telecommunications, Optical Fibre & Network Products

No.28, WALLERS ROAD, 2ND FLOOR, MOUNT ROAD, CHENNAI - 600 002.

Email : excelelectronix@gmail.com

VENDOR CODE: 1053294

TO
AVANTHI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
VIZIANAGARAM

QUATATION

Your Enquiry

No:- 024

Dt:- 22/07/2023

Date :

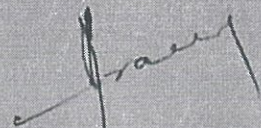
	DESCRIPTION	HSN	QTY	Unit Rate		Amount
		CODE		Rs	PS	
1	Optical Splicing machine to Spectrum with Accessories ✓ <i>Fuskura 66 S-</i>		1 No	284200.00		284200
2	OTDR ✓		1 NO	41800.00		41,800
3	Optical power Meter ✓		2 NO	6,360.00		12720
4	LAN tester (Ethernet Tester) ✓		2 NO	495.00		990
5	SC, FC, LC ODB Connector Dual Fibre ✓		6 NO	225.00		1,350
6	Patch Cord SC to SC, SC to LC ✓		12 NO	350.00		4,200
7	10/100/1000 Media Convertor Dual Fibre ✓		2 NO	2,300.00		4,600
8	Optical Fibre cable 4F ✓		1 KM	11,000.00		11,000
9	Radio Power Meter		1 NO	20,500.00		20,500
						381

DELIVERY : WITHIN 10 DAYS.

Validity : 90 days

Payment: 100% ADVANCE PAYMENT WITH P.O.

EXCEL ELECTRONIC



Authorised Signatory

GSTIN NO : 33AACFE4857B1Z1

PH: 044-28548246

EXCEL ELECTRONIC

Suppliers of : Telecommunications, Optical Fibre & Network Products

No.28, WALLERS ROAD, 2ND FLOOR, MOUNT ROAD, CHENNAI - 600 002.

Email : excelelectronix@gmail.com

VENDOR CODE: 1053294

TO
AVANTHI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
VIZIANAGARAM

QUATATION

Your Enquiry

No:- 024

Dt:- 22/07/2023

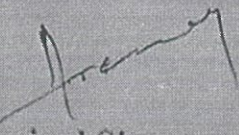
Date :

	DESCRIPTION	HSN	QTY	Unit Rate		Amount
		CODE		Rs	PS	
10	OLTE 4 PORT ✓		1 No	38,000.00		38,000.00
11	ONU VOICE DATA WITH WIFI ✓		1 NO	2995.00		2,995.00
12	1:8 SPLITTER ✓		1 NO	900.00		900.00
13	PUNCHING TOOL FOR CAT 6 CABLE ✓		2 NO	1,695.00		3390.00
14	IO BOX CAT 6 ✓		2 NO	75.00		150.00
15	CAT6 CABLE D LINK (305 MTR) ✓		1 COIL	8700.00		8,700.00
16	CRIMPING TOOL ✓		2 NO	495.00		990.00
17	RJ 45 CONNECTOR ✓		2 NO	10.00		20.00
	Gross Total					436505.00
	IGST	18%				78570.90
	Net					515075.9

DELIVERY : WITHIN 10 DAYS.

Validity : 90 days

Payment: 100% ADVANCE PAYMENT WITH P.O.

EXCEL ELECTRONIC

 Authorised Signatory

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(APPROVED BY AICTE, RECOGNISED BY GOVT OF A.P. & AFFILIATED TO JNTU, KAKINADA)
 CHERUKUPALLY VILLAGE, NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162
 www.avanthi.edu.in, www.aietta.ac.in

Cherukupally(V), Bhogapuram(M),

PURCHASE ORDER

Near Tagarapuvalasa,

PO Number : AIET/ADM/ACM/23-24/ 03

VISAKHAPATNAM-531162

Order Date : 26.08.2023

Email: avanthi.admi@gmail.com

Your Qtn ref : 024

Dated : 22.07.2023

Indent by & Date: NA

CS NO & date : NA

VENDOR NAME AND ADDRESS

M/s. EXCEL ELECTRONIC,

GST: 33AACFE485781ZU

NO: 28, Wallers Road, 2nd Floor,

Mount Road,

Kind Attention : Mr. Uday Kumar

CHENNAI-600002

Contact Number: 9884206850

Scope of Supply: Supply of LAB equipment for incubation centre at our AVANTHI college, Cherukupally village, Near Tagarapuvalasa, VISAKHAPATNAM.

SNO	MATERIAL DESCRIPTION	UOM	QTY	HSN CODE	RATE/UNIT	TOTAL AMOUNT
1	Supply of LAB equipment as per attached ANNEXURE 1	Set	1	8515		4,36,505.00
Sub Total:						4,36,505.00
IGST						78,570.90
Transport charges upto VISAKHAPATNAM transport office:						Included
Transit Insurance:						Included
Installation Charges :						Included
Grand Total:						5,15,076.00

Rupees Five Lakh Fifteen Thousand Seventy Six Only

Please supply the above material subject to Terms and Conditions specified herein. Quote our order reference number in all your future correspondence. Kindly acknowledge the order as token of acceptance. The total price stipulated here is derived based on estimated quantities and unit rate as offered by you. However the payment is based on the actual supplied quantity. The authorised representative of our college shall certify the same.

TERMS & CONDITIONS

1	Delivery Basis	FOR Site
2	Transportation Charges	Included
3	Delivery Period	With in 1 Weeks from the date of receipt of PO with advance
4	Payment Terms	100% Advance along with PO
5	Warranty	As per warranty cards along with devices
6	Unloading	Our scope
7	Documents to submit	DC, Invoice, User manuals, Driver CDs if any
8	Liquidated Damage	NA
9	Way bill	Online e-waybill is mandatory for high value goods. If not issued by mistake, vendor have to bare the losses.
10	Other Condition	Nil
11	Delivery Address	Avanthi college, Cherukupally village, Near Tagarapuvalasa bridge-531162, Vliyanagaram.
12	Billing Address	CHERUKUPALLY(V), NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162
13	Contact Person & Phone	Mr.Nithin: Mobile: 9666969836/Mr.Satya: 9652012340
We do hereby Accept and Agree		For AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

Authorised Signatory
 M/s. EXCEL ELECTRONIC,

Prepared by

Approved by

Authorised Signatory

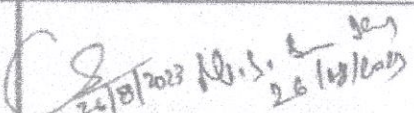

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(APPROVED BY AICTE, RECOGNISED BY GOVT OF A.P. & AFFILIATED TO JNTU, KAKINADA)
 CHERUKUPALLY VILLAGE, NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162
 www.avanthi.edu.in, www.aietta.ac.in

Page 2 of 2

ANNEXURE I for detailed list of Material

Scope of Supply: Supply of LAB equipment for Incubation centre at our AVANTHI college, Cherukupally village, Near Tagarapuvalasa, VISAKHAPATNAM.

SNO	MATERIAL DESCRIPTION	UOM	QTY	HSN CODE	RATE/UNIT	TOTAL AMOUNT
1	Optical Splicing Machine to spectrum with with accessories	Nos	1		2,84,200.00	2,84,200.00
2	OTDR	Nos	1		41,800.00	41,800.00
3	Optical Power Meter	Nos	2		6,360.00	12,720.00
4	LAN Tester (Ether Net tester)	Nos	2		495.00	990.00
5	SC,FC,LC ODB Connector Dual fibre	Nos	6		225.00	1,350.00
6	Patch cord SC to SC; SC to LC	Nos	12		350.00	4,200.00
7	100/100/1000 Media Converter Dual fibre	Nos	2		2,300.00	4,600.00
8	Optical Fibre cable 4F	KM	1		11,000.00	11,000.00
9	Radio Power Meter	Nos	1		20,500.00	20,500.00
10	OLE 4 Port	Nos	1		38,000.00	38,000.00
11	ONU Voice Data with WIFI	Nos	1		2,995.00	2,995.00
12	1:8 Splitter	Nos	1		900.00	900.00
13	Punching tool for CAT 6 cable	Nos	2		1,695.00	3,390.00
14	IO Box Cat 6	Nos	2		75.00	150.00
15	CAT 6 Cable D-LINK	COIL	1		8,700.00	8,700.00
16	Crimping Tool	Nos	2		495.00	990.00
17	RJ 45 Connector	Nos	2		10.00	20.00
Sub-Total:						4,36,505.00
IGST(18%):						78,570.90
Transport charges upto Avanthi College, Near Tagarapuvalasa:						Included
Transit Insurance:						Included
Installation Charges :						Included
Grand Total:						5,15,076.00
Rupees: Five Lakh Fifteen Thousand Seventy Six Only						
We do hereby Accept and Agree				For AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY		
Authorised Signatory M/S. EXCEL ELECTRONIC				 24/8/2023		
Prepared by		Approved by		Authorised Signatory 		



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "B++" Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram (Dist)-531162.

www.aietta.ac.in, principal@aietta.ac.in

Payment Details regarding the purchase of Equipment from Excel Electronics

Sr. No	1249
Corporate Product	AVANTHI
Debit A/C no.	918010018191104
Beneficiary Name	EXCEL ELECTRONICS
Amount Payable	5,15,075.00
Paid Date	28-AUG-23
UTR/RBI Reference No./Core Ref No.	AXISP00418630217
Remarks	FOR INCUBATION CENTRE-ECE PURPOSES
IFSC Code/MICR Code/IIN	IDIB000A089

EXCEL ELECTRONIC

Suppliers of : Telecommunications, Optical Fibre & Network Pro
No.28,WALLERS ROAD,2ND FLOOR,
MOUNT ROAD, Chennai- 0 00 002.
Phone: 044-28548246

INVOICE No. 029

Date : 07-09-2023

Email : excelelectronic@gmail.com

Vendor Code No. 1038187

Customers Name & Address :

AVANTHI INSTITUTE OF ENGINEERING AND
TECHNOLOGY CHERUKUPALLY VILLAGE,
NEAR TAGARAPUVALASA BRIDGE VIZIANAGARAM
PIN: 531162. PH: 9666969836/9652012340

Consignee :

Carrier

YOUR PO NO. AIET/ADM/ACM/23-24/03
dt. 26.08.2023

PARTY GSTIN :

SALES TAX

Date :

DESCRIPTION	HSN Code	QTY	Unit Rate		Amount	
			Rs.	Ps.	Rs.	Ps.
1 Optical Splicing Machine to Spectrum	8517	1	284200.00		2,84,200.00	
2 OTDR	8517	1	41800.00		41,800.00	
3 Radio Power Meter	8517	1	20500.00		20,500.00	
4 OLTE 4 PORT	8517	1	38000.00		38,000.00	
5 ONU Voice Data With WiFi	8517	1	2995.00		2,995.00	
PRE RECEIPT BILL			TOTAL		3,87,495	
RUPEES: FOUR LAKH THIRTY SIX THOUSAND FIVE HUNDRED AND FIVE ONLY			Type Invoice	CGST@9%		
			Regular	CGST@9%		
Note: Interest will be charged @ 18% p.a. for payments after Goods once sold cannot be taken back on any account. All disputes are subject to Chennai Jurisdiction only.			Terms of Payment :		CGST@18%	69,749.10
					ROUNDED OFF	
					GRAND TOTAL	4,36,505.00

GSTIN NO : 33AACFE4857BIZU

Recived the goods mentiomed above in
Correct order and good condition
Signature of Reciving

Checked by

for EXCEL ELECTRONIC
Authorized Signature

EXCEL ELECTRONIC

INVOICE NO 027

Suppliers of : Telecommunications, Optical Fibre & Network Pro

No.35, WALLERS ROAD, 2ND FLOOR,

MOUNT ROAD, Chennai-600 002.

Phone:- 944-28548246

Email : excelelectronics@gmail.com

Vendor Code No.1038187

Date 02.09.2023

Customer's Name & Address :

AVANTHI INSTITUTE OF ENGINEERING AND
TECHNOLOGY, CHERUKUPALLY VILLAGE, NEAR
TAGARAPUVALASA BRIDGE, VIZIANAGARAM
PIN:531162. PH:9666969836/9652812348

Consignee :

Carrier

YOUR PO NO-AIET/ADM/ACM/23-24/03
dt.26.08.2023

Date :

PARTY GSTIN :

SALES TAX**DESCRIPTION**HSN
CODE

QTY

Unit Rate
Rs RsAmount
Rs Rs

1.OPTICAL FIBRE CABLE 4F

8544

1 KM

11000.00

11000.00

2.CAT 6 CABLE D LINK MAKE

8544

1 COIL

8700.00

8700.00

3. PUNCHING TOOL FOR CAT 6 CABLE

8544

2 NOS.

1695.00

3390.00

PRE RECEIPT BILL

RUPEES: TWENTY SEVEN THOUSAND TWO
HUNDRED AND FORTY SIX AND PAISE TWENTY
ONLY.

Type of Invoice
Regular

TOTAL

23,090.00

CGST @ 9%

SGST @ 9%

Note : Interest will be charged @18% p.a. for payment after

Term of Payment :

IGST @18%

4,156.20

Goods once sold cannot be taken back on any account.

ROUND OFF

All disputes are subject to Chennai Jurisdiction only.

GRAND TOTAL

37,246.20


GSTIN NO : 33AACFE4857B1ZU

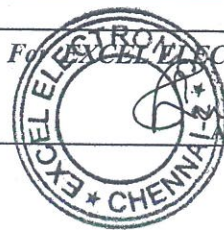
Received the goods mentioned above in
Correct order and good condition
Signature of the Receiver

Checked by



Authorised Signatory

EXCEL ELECTRONIC		INVOICE NO 028	
Suppliers of : Telecommunications, Optical Fibre & Network Pro No.28, WALLERS ROAD, 2ND FLOOR, MOUNT ROAD, Chennai-600 002. Phone:- 044-28548246			
Email : excelelectronix@gmail.com Vendor Code No.1038187		Date 07.09.2023	
Customer's Name & Address : AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, CHERUKUPALLY VILLAGE, NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM PIN:531162. PH:9666969836/9652012340		Consignee :	
Carrier		YOUR PO NO. AIET/ADM/ACM/23-24/03 dt.26.08.2023	
Date :	PARTY GSTIN :	SALES TAX	
DESCRIPTION		HSN CODE	QTY
		Unit Rate Rs PS	
		Amount Rs Ps	
1. LAN TESTER (ETHERNET TESTER)		8517	2 NOS. 495.00 990.00
2. OPTICAL POWER METER		8517	2 NOS. 6360.00 12,720.00
3. SC, FC, LC 0 DB CONNECTOR DUAL F		8517	6 NOS. 225.00 1,350.00
4. SC TO SC, SC TO LC, PATCH CORD		8517	12 NOS. 350.00 4,200.00
5. 10/100/1000 MEDIA CONVERTOR DUAL FIBRE		8517	2 NOS. 2300.00 4,600.00
6. 1:8 SPLITTER		8517	1 NO. 900.00 900.00
7. I O BOX CAT 6		8517	2 NOS. 75.00 150.00
8. RJ 45 CONNECTOR		8517	101 NOS. 10.00 1010.00
PRE RECEIPT BILL			
RUPEES: THIRTY THOUSAND FIVE HUNDRED AND EIGHTY FIVE ONLY.		Type of Invoice Regular	
		TOTAL 25920.00	
		CGST @ 9%	
		SGST @ 9%	
Note : Interest will be charged @18% p.a. for payment after Goods once sold cannot be taken back on any account. All disputes are subject to Chennai Jurisdiction only.		Terms of Payment :	
		IGST @18% 4,665.60	
		ROUNDED OFF	
		GRAND TOTAL 30,585.00	
GSTIN NO : 33AACFE4857B1ZU			
Received the goods mentioned above in Correct order and good condition Signature of the Receiver		For EXCEL ELECTRONIC  Authorised Signatory	
		Checked by	





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTU-GV, Vizianagaram)

NAAC 'B++' Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram Dist-531 162.

www.aietta.ac.in, principal@aietta.ac.in

Incubation centre Equipment

S.No	Requirement	Quantity
1	Optical Splicing Machine to Spectrum	1
2	OTDR	1
3	Optical Power Meters	2
4	Ethernet Tester (10Mbps / 100 Mbps/ 1Gbps)	2
5	different types of Optical connectors(SC, FC, LC 0 DB Connector Dual Fibre)	6
6	Patch Cords	12
7	Media Converters	2
8	Optical Fiber Cable (4F)	1km
9	Radio Power Meter	1
10	1:8 splitters	1
11	OLTE 4 port	1
12	ONU voice dta with wifi	1
13	Punching Tools for CAT 6 cable	2
14	CAT 6 cable D link	1coil
15	RJ 45 Connectors	101
Equipment Supplied by BSNL		
16	Primary Channel Mux	2
17	STM System	1
18	Different Types of 2G/3G sector antennas	As per requirement
19	Modems & switches	As per requirement