

"Enacting to construct a spectrum of statute in quality, innovation and performance with an environment- friendly and competitive concern for complete Telecom - Mobile Network Solutions".

Lambda Group is very proud to publish first technical newsletter .The newsletter is informative & handy to provide updated information on Lambda's fast adoption of advance technology. Lambda started its business from Microwave components and Ushered TSP & Networking Solutions. The R&D department of Lambda Group continued efforts to work into new and advanced technologies. After 6 years of hard work, the Lambda emerged with following new technologies.

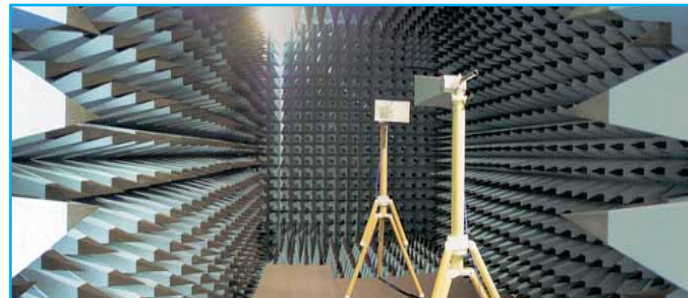
1. Production base for 2G & 3G Antennas with technology from Arialcom, France has been established at Baddi Plant in Himachal.
2. Lambda did JVC with Antech, Italy on supply of Satellite Communication systems including Earth station antennas, DSNG antennas, Flyaway terminals & Disaster management systems using Satellite & IP.
3. Lambda R&D has developed eco-friendly Gas Generators which is a instant solution to polluting & noise making DG sets running in metro towns.
4. Lambda R&D has also developed a telecom shelter security system, called (ISO/MIS) to have controlled access to shelters and stop diesel theft in running cell sites.
5. Lambda has also ventured with OPEL, US to produce solar trackers which are a better efficient system for production of solar power, compare to fixed PV Panels.
6. LMPL has tied up with Voila Telecom,Canada on supply of microwave components in India on TOT basis.
7. LMPL has become authorized distributor for AT Wal & co. US on supply of rigid waveguides, flexible twistable waveguides & metal tubes.
8. In order to keep electrically operated equipment running during mains failure the most essential requirements in Today's world is Batteries. At LETL we manufacture and supply batteries for various applications like Telecom, Railways, Defense and Automobiles to name a few.
9. Continuing with its philosophy of being one stop shop Lambda committed itself to being one of the best Networking solutions service providers in the country. Lambda's seasoned professionals, with state-of- the- art tools & its strong relationship with clients provide it the winning edge. From conceptual planning of the network, survey, optimization, managed services, resource deployment. Lambda has now hands on experience in all the domains of Networking Solutions. With experience across all these domains Lambda is all set to catapult itself into the league of best of the best.

Our dedicated and capable engineers ensure that all the projects are driven by challenging performance benchmarks & our final deliverables result in quantifiable improvement in the network quality and performance.

Lambda provides the following services :

- Man Month
- Drive Test
- Optimization
- Planning
- Survey
- Resource deployment
- Managed Services
- VTM / TEC approvals for operators

10. Lambda also manufactures Integrated Power Management System (IPMS) comprises of Conventional Power Management system and Switched Mode Power supply (SMPS) widely used by Telecom and Tower Companies.



## LAMBDA PRODUCTS - SOLUTIONS AT A GLANCE

### 1. LTVPL Production of 2G/3G Antenna at Baddi & Gurgaon



### 2. 13m Earthstation Antenna parts in fabrication at Antech Lambda Faridabad



### 3. Solar Tracker from OPEL- US :



### Satellite Systems & Earth Station Antennas

- Antennas
- Antenna DSNG Van 1.2m / 1.5m / 1.8m
- Earth Stations ( 4.5m / 7.3m / 9.3m / 13m and above )
- Flyaway Terminal
- VSAT Terminal
- Disaster Management Satellite System
- Frequency Converter
- BUCS & SSPAS
- Ground Stations Equipment
- ACUS Antenna Control Units

### Optical Fibre Networks & Satellite Entertainment

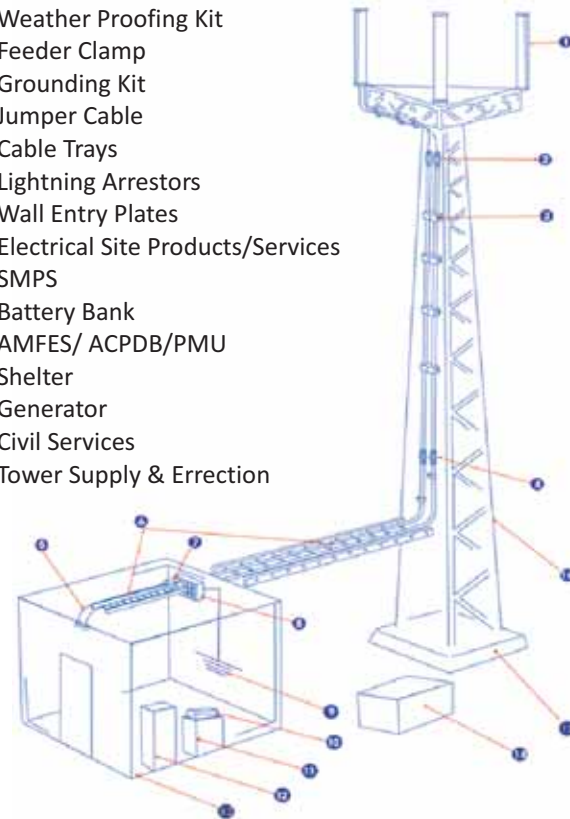
- Satellite, Broadcast & RF Solutions
- DTH Solutions for Garden Style & MDUs

### RF Absorbers & Test Chamber's

- EMI/ EMC Anechoic Chamber
- Ferrite Absorber
- Weather Proof Absorbers
- Multilayer Broad Band Microwave Absorbers
- SAR Test Measuring Equipments
- EM- Measurement System
- Hearing Aid Compatibility Test System

### Mobile Networking & Tower Accessories

1. GSM 3G Antenna-Multiport
2. Weather Proofing Kit
3. Feeder Clamp
4. Grounding Kit
5. Jumper Cable
6. Cable Trays
7. Lightning Arrestors
8. Wall Entry Plates
9. Electrical Site Products/Services
10. SMPS
11. Battery Bank
12. AMFES/ ACPDB/PMU
13. Shelter
14. Generator
15. Civil Services
16. Tower Supply & Errection



### Microwave Components

- Waveguide Components
- Coaxial Components
- Telecom Components

## LATEST- LAMBDA NEWS

### 9.3m Earth Station Satellite Antenna



Antech Lambda Satellite PVT. LTD. (50:50 joint venture between Antech Italy & Lambda) has successfully installed 9.3m Ku band Earth Station antenna in Nepal. Major assemblies of the antenna are made by Antech Lambda in India

with Antech technology.

### BTS Antenna (Next Generation)



**Next Generation Antennas :** The mushrooming of Microwave towers & the physical appearance of a cell site is getting ugly day by day. Aerial com has developed a new pleasing design of Antennas. Aerial com has developed single

sector antennas for urban sites, with TMA/Diplexer included in one housing.

### One Touch Suitcase



Antech Lambda has developed One-Touch suitcase (OTS) SNG system. The Antech one Touch suitcase(OTS) integrates in a carbon fiber package a fully operative SNG system. The carbon fiber antenna, the feed sub system, LNB, BUC (up

to 20 W), three axis (AZ,EL/POL) movement, one touch and GO (OTG) antenna controller including built in inclinometers and GPS. The integrated HPA on the feed arm minimizes Waveguide losses, thus maximizing the EIRP. The dual offset antenna optimizes the electrical performances with excellent polarization performances. The OTS can be used as a satellite suitcase (ideal to be transported by helicopter, airplane, train or ship) or as a roof-mounted system for any type of vehicles. The system can be fully operative to transmit in 8 minutes, including the time spent for the antenna panels

### Solar Site Telecom- BHUTAN



**On-Site Energy Independence :** The development of renewable energies based on solar or wind power has a direct application for mobile telecom infrastructure. Energy independence may be necessary to

cover rural areas in developing countries. LET has completed 100% few solar sites in Bhutan through TCIL. That have 2000 AH battery 24\*7 operation.

The construction work has been completed in extremely difficult terrain. Some of the sites are three days walking distance from a motorable road.

### LOW COST DIPLEXER TMA & BTS ANTENNA FROM CSS, USA

- ➔ Wide Band Diplexer DBC-7 CAP
- ➔ Combines 1710-2170 & 698-960 MHZ
- ➔ O-Ring Sealed for High Reliability
- ➔ 1000 Watt Design For High Power Handling
- ➔ Designed For Superb IM Performance



## TECHNOLOGY PARTNERS :

- Veks-M, Russia
- Arial com, France
- Antech, Italy
- Main Elecom, Korea
- Aprel, Canada
- Foxcom, Isreal
- Universal Shielding Corporation, USA
- USA At Wall Company, USA
- Voila XS, USA



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## PRODUCTS AND SERVICES

### Products

BTS Antenna 2G/3G  
BTS Installation Accessories  
Shelters Telecom  
Satellite Systems & Earth  
Optical Fibre networks  
RF Absorbers/ Microwave Components  
Anechoic Chamber  
IBS  
Shelter Security  
Gas Based Generators  
Solar Products

### Services

RF Optimization  
Solar Power Installations  
Resource Deployment

## Openings For R&D Engineers :

- Solar power
- Electrical Vehicles
- Generators