



DRDO-INDUSTRY PARTNERSHIP

Synergy & Growth

Hindustan Aeronautics Limited
Ordnance Factory Board.

Padamshree Electronics

Bharat Dynamics Limited

CALCO POLYCHEM

Tata Group

MIDHANI

SEC INDUSTRIES

Products

Group

Produ

its

Products

Group

Produ

its

Products

Group

Produ

its

Products

Group

Produ

its

Products

DEFENCE RESEARCH & DEVELOPMENT ORGANISATION

In Pursuit of Self - Reliance



vision

Make India prosperous by establishing world class science and technology base and provide our Defence Services decisive edge by equipping them with internationally competitive systems and solutions

mission

- Design, develop and lead to production of state-of-the-art sensors, weapon systems, platforms and allied equipment for our Defence Services
- Provide technological solutions to the Services to optimize combat effectiveness and to promote well-being of the troops
- Develop infrastructure and committed quality manpower and build strong indigenous technology base



DRDO





DRDO-INDUSTRY PARTNERSHIP

Synergy & Growth



SECOND EDITION

DEFENCE RESEARCH & DEVELOPMENT ORGANISATION

In Pursuit of Self - Reliance



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Designed and Printed by Director, DESIDOC on behalf of DRDO, India



सत्यमेव जयते

रक्षा मंत्री
भारत

MINISTER OF DEFENCE
INDIA

March 16, 2013

MESSAGE

It is a pleasure to learn that DRDO is coming out with the second edition of Compendium of Industrial Partners of DRDO titled, "DRDO Industry Partnership – Synergy & Growth."

The partnership of about a 1000 industries with DRDO in design, development and productionisation of defence systems is a heartening development. The confidence in and commitment to indigenous technologies need to be enhanced to increase self-reliance in defence systems.

The excellent synergy in partnership between DRDO and Indian industries has led to an enhanced defence industrial base. Participation in indigenous development gives industries the much-needed knowledge on the nuances of defence technologies that will help them to come out with MK II and MK III, to a large extent, through their own efforts. We have to continue to work towards enhancing the self-reliance index in defence systems to an even higher level and thereby reducing our over-dependence on imports.

The new partnership between DRDO and industries has created a knowledge base within the country. This will help in taking up future challenges of design, development and manufacturing and in making efforts to reduce product development cycle, that will lead to greater economic growth and achieve a higher level of self-reliance in defence systems and products.

Please accept my best wishes for your endeavours.

(A.K Antony)

जितेन्द्र सिंह
JITENDRA SINGH



राज्य मंत्री, युवा कार्यक्रम एवं खेल
(स्वतंत्र प्रभार) और
रक्षा राज्य मंत्री, भारत सरकार
MINISTER OF STATE FOR YOUTH AFFAIRS & SPORTS
(INDEPENDENT CHARGE) AND
MINISTER OF STATE FOR DEFENCE
GOVERNMENT OF INDIA

MESSAGE

I am delighted to know that the Defence Research & Development Organisation (DRDO) is bringing out the Compendium of Industrial Partner of DRDO titled 'DRDO Industry Partnership - Synergy & Growth Compendium'. I am also very happy to note that this Compendium is not just a directory of industries but also gives an insight into the core competencies of the industries that will help in harnessing their strength effectively.

I congratulate the DRDO for taking this initiative of collating the contribution of their industrial partners and coming out with this compendium. I am sure, this will not only recognise the work of the industry partners associated with the DRDO but will also create a knowledge repository for future projects/products.

19th March 2013.



(**JITENDRA SINGH**)





FOREWORD

Dr. V K Saraswat

SA to RM,
Secy, Dept. of Defence R&D
and DG DRDO

"A nation's strength ultimately lies in what it can do on its own and not in what it can borrow from others"

"Self-reliance is good for any country, but for a country of our size and circumstances, it is indispensable"

Former Prime Minister Smt. Indira Gandhi

Charged with driving India's Self Reliance in Defence, DRDO has been spearheading the Nation's efforts along with public and private sector companies. Over the years, we have helped substantially to reduce India's dependence on import in defence-critical solutions for our Armed Forces - the Army, the Navy and the Air Force.

DRDO engagement with Indian industries is over the past five decades and almost ever since DRDO came into existence.

Through their participation, the Indian private sector industries are exposed to advanced defence technology areas that are normally closely guarded by the developed Nations. During development, DRDO involves the industries in the design reviews that enable them to acquire not just the "know-hows" but also the "know-whys" which is very essential for the industries to add value. This knowledge gained by the industries will ultimately enable the industries to deliver quality products, systems required for the Indian Armed Forces and will also enable them to get into the supply chain of major multi nationals and be successful. Some industries are already getting into that position.

Currently about 1000 Indian industries are associated with many DRDO projects and programmes. Their active participation in the design stage of the development projects have enabled them to grow in the value chain from B2P (Build to Print) to B2D (Build to Design) to B2S (Build to Specification) to B2R (Build to Requirement). A few among the industries have achieved the capability and the capacity to become system integrators in certain areas.

The production value of the Defence Systems based on DRDO developed technologies, cleared by Defence Acquisition Council (DAC) for induction into Services (excluding Strategic System) is about Rs 1.5 Lakh Crores and the private sector contribution in this is quite significant. With more and more

DRDO systems getting into the production pipeline after successful user evaluations, this figure will go up sharply in the near future and the private sector will be a significant benefactor in this.

DRDO has been awarded the prestigious Thomson Reuters India Innovation Award- 2011 in "Hi-Tech Academic & Government" Category on the basis of size of patent portfolio, success rate, extent of globalization and influence of innovation as the analytical parameters.


"The fruits of our technological progress must also reach to the common man. This is the only way in which we can make every citizen of India a productive participant in India's growth story. DRDO has a crucial role to play in leading by example". The Government at the highest level is expecting DRDO's technologies must reach the society at large beyond its intended military purpose.

Hon'ble Prime Minister of India, Dr. Manmohan Singh in his speech on the occasion of Technology Day Celebrations, 12 May 2008.

The benefits of DRDO's technological progress are passed on to Industries through transfer of technology agreements for both military products and civilian spin offs products. This in the long run will enable the industries to produce high quality, high reliable military and industrial products and systems at an affordable cost that will not only boost the indigenous content in defence systems but also help the Nation to reduce large scale import of defence systems. The benefits the Indian industries can derive by their active participation with DRDO are manifold, I, therefore urge the Indian industries to join hands with DRDO in our mission to achieve greater level of indigenisation in all our systems and technologies and also help the Nation to achieve higher level of Self Reliance in Defence equipments and systems.

Jai Hind

19th March 2013


Dr V K Saraswat



PREFACE

Shri S Radhakrishnan

Director, Directorate of Industry Interface &
Technology Management (DI²TM)
DRDO HQr

I on behalf of DRDO would like place on record our sincere gratitude to all our Industry partners who stood by us in all our projects and programmes and shared both the successes and the failures. But for your active participation, understanding and passion for learning despite the difficulties, we would not have achieved the successes today that have placed India in the world map. From almost zero industry base in the 1950s, today close to 1000 industries are working closely with DRDO. The first edition received many kudos from all the stakeholders and also certain feedback like to include the industries what have taken the ToT from DRDO labs. This has been included in this compendium.

Every care has been taken to include only those industries that are actively involved in the development activities and have added value to DRDO products at various stages. While some of the industries have shown their capability in "Build to Design/Print", some have matured over the years of association with DRDO project teams to undertake "Build to Specification" & some have even graduated to "Build to Requirements" stage.

We believe that the industries that figure in this compendium of "DRDO Industry Partnership - Synergy & Growth" has in fact enabled the establishment of a robust and competent defence industrial base in the country, who are better placed to undertake development related tasks in some of the cutting edge technology areas. The compendium has three parts. The first part has the details of major industries with their contribution to DRDO projects. The second part has the details of industries who have received Transfer of Technology (TOT) from DRDO for commercial market. The third part is the directory of all partner industries with their contact details. We hope that this compendium will be a useful knowledge database for Indian Industry and potential collaborators. I believe that in spite of all the best efforts put in by my team to collect the details from the labs, still we may have missed some industries who have made significant contributions. We will continue to improve the database and ensure the data base is updated in the next edition. Let me also take this opportunity to place on record my sincere gratitude to all the lab directors, project directors, technical directors and DRC members for the constant source of support in bringing out this compendium.

Jai Hind

S. Radhakrishnan



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Deputy Director

Shri Abhishek Sahai
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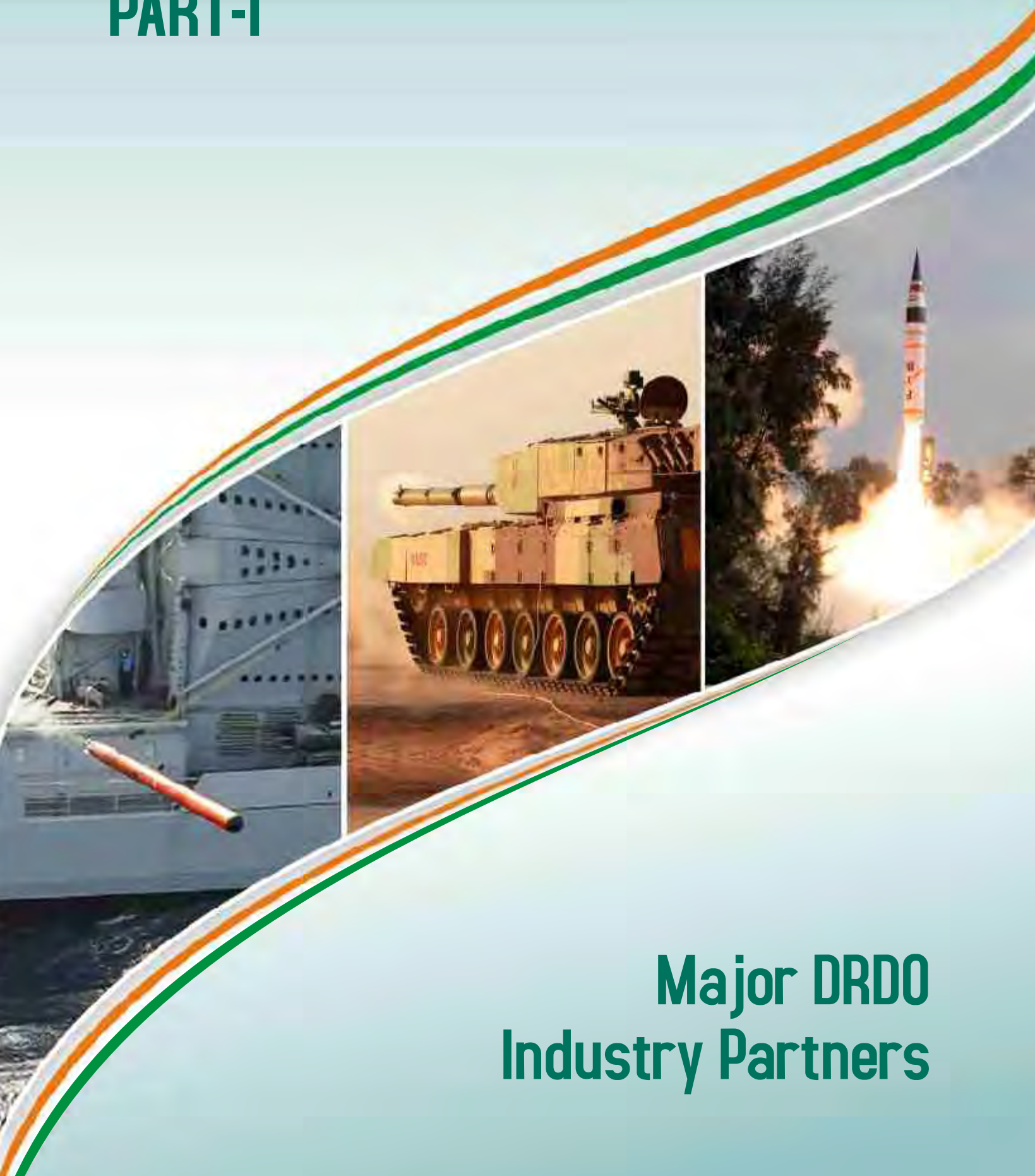
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PART-I



**Major DRDO
Industry Partners**

ACD COMMUNICATIONS PVT LTD

Company Name	: ACD Communications Pvt Ltd	
Contact Person	: B Adilakshmi	
Designation	: Managing Director	
Address	: ACD Communications Pvt Ltd, Plot No 43 Phase-1, IDA, Cherlapally	
City	: Hyderabad – 500 051	
Contact Number	: +91 40 27263505	Mobile : +91 9848030026
Fax	: +91 40 27263506	
Email	: adilakshmib@acdcomm.net adiboppana@yahoo.com	
Website	: www.acdcomm.net	

ACD was established in the year 1999 and has become a leader in the design, development, manufacture and marketing of state-of-the-art HF, V/UHF and Microwave antennas, components and subsystems for applications like GSM, CDMA, satellite, and wireless in local loop as well as in defence applications like electronic intelligence, electronic warfare for air-borne, ship-borne, vehicle and submarine platforms. ACD maintains high quality standards and has been certified for ISO 9001:2000.

Contribution to DRDO Projects/Programs

- **Antennas**
 - Broadband Horn Antennas
 - Dual Polarised Parabolic Dish Antenna
 - Phase and Amplitude match Filter for Multi Channel Radios
- Air-borne, Ship-borne and Ground-based Antenna Systems
 - Cavity Backed Spiral Antennas
- **BLI Arrays**
- **Telemetry and Tracking Antennas**
 - S-Band Airborne Antenna
 - C-Band Tracking Airborne Antenna
 - UHF Command Antenna
- **Beam Switching Antennas**
- **HF Omni's Antennas**
- **Horn Antennas**
- **Bi-Conical Horn Antenna**
- **Power Dividers**
- **Power Combiners**
- **Direction Couplers**

ACORN CONTROLS

Company Name : Acorn Controls
 Contact Person : Sagar Vardha
 Designation : CEO
 Address : 4, Mayuresh Apartments, 104-Mayur Colony, Kothrud
 City : Pune – 411038
 Contact Number : +91 20 25422057 Mobile: +91 9766356758
 Fax : +91 20 25422057
 Email : acorn@eth.net
 Website : www.acorncontrols.co.in

Acorn Controls is associated with DRDO and has contributed in the development of monitoring devices for Armoured Engineers Reconnaissance Vehicle.

Contribution to DRDO Projects/Programs

1. EDM

This instrument utilises a velocity probe while the vehicle moves on water during water recce and integrates the velocity data to read distance travelled. This information along with depth data gives the bed profile information to Army engineers.



2. WDMD

When the vehicle is moving in shallow water (up to 1.25 m) this instrument reads the water level data, which is useful to know the bed profile when read along with distance travelled by the vehicle.



3. HHWCM

Whenever the vehicle is to be pushed in to unknown water streams for water recce, Army engineers can get the water current information beforehand which is useful for safe application of vehicle during water recce. This is a battery operated, portable and rugged device, and can be read in daylight or at night.



ACTIVE CARBON INDIA PVT LTD

Company Name : Active Carbon India Pvt Ltd
Contact Person : Dr V Jagan Mohan Reddy
Designation : Managing Director
Address : G-1, K-5, Kimtee Colony Road No 12, Banjara Hills
City : Hyderabad – 500 034
Contact Number : +91 40 23324884 Mobile : +91 9848789373
Fax : +91 40 23324886
Email : info@active-carbon.net
Website : www.activecarbonindia.net

ACI has gained expertise in developing activated carbon based products for use in NBC applications.

Contribution to DRDO Projects/Programs

- Impregnated Activated Carbon grade ASC-Whetlerite for NBC application used in gas mask canisters and NBC filters
- Canisters: For use in NBC gas masks
- Auto-injectors: Atropine Sulphate Autoject Injectors and PAM Chloride Auto- injectors
- Palladium impregnated activated Carbon for removal of Carbon monoxide used in submarines



ADVANCE PAINTS PVT. LTD.

Company Name : Advance Paints Pvt. Ltd.
Address : 2nd Fosbery Road, Near Hindustan Lever Ltd.
Sewri (East)
City : Mumbai-400 015
Contact Number : +91 22 2372 8330 / 2373 8274
Fax : +91 22 2374 3305

Production of different types of paints and coatings for marine applications.

The firm is ToT partner of NMRL for following products

- (a) Heavy Duty Non-Skid Paint
- (b) High Performance Exterior Paint

Contribution to DRDO Projects/Programs

The firm has successfully absorbed the technologies of above two paints developed by NMRL and supplying these paints to Indian Navy.

AEROSPACE ENGINEERS

Company Name : Aerospace Engineers
Contact Person : R Sundaram
Designation : Chief Executive
Address : NH-7 Bypass Road, Seelanaickenpatty
City : Salem – 636 201
Contact Number : +91 427 2422232 / 332, 2281817 Mobile :+91 9443222805
Fax : +91 427 2422432
Email : ceo@thesalemaeropark.com, aeropolymers@gmail.com
Website : www.aerospaceelastomer.com

Aerospace Engineers has been designing, developing and manufacturing non-metallic parts for aerospace applications for various projects of DRDO.

Contribution to DRDO Projects/Programs

- **Aerospace Non-metallic Parts**

Seals, oil seals, backup rings, shock mounts, flame proof hoses, “P” clips and clamps, sheet gaskets, firewall gaskets



AEROSPACE ENGINEERING (INDIA) PRIVATE LIMITED

Company Name : Aerospace Engineering (India) Private Limited
Contact Person : Y. Thimma Reddy
Designation : Managing Director
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City : Patancheru - 502319, Medak Dist (A.P)
Contact Number : +91 08455 42174, 42097(O), 08455- 80244(Res)
+91 40 23022161(Res) Mobile 9866309373
Fax : +91 08455 - 41146

Aerospace Engineers has been designing, developing and manufacturing non-metallic parts for aerospace applications for various projects of DRDO.

Contribution to DRDO Projects/Programs

- **Aerospace Non-metallic Parts**

Seals, oil seals, backup rings, shock mounts, flame proof hoses, "P" clips and clamps, sheet gaskets, firewall gaskets

AILGA RUBBER WORKS

Company Name : Ailga Rubber Works
Contact Person : Deepak Owlak
Designation : CEO
Address : 84/8 Fazalganj Industrial Estate
City : Kanpur - 208012
Contact Number : +91 512 2217044, 2217018
Fax : +91 512 2216213
Email : info@ailga.co

Ailga Rubber Works is involved in development of Rubber seals and components, NBC Pads for BMP-II, BMP-IK Battle Tank, Seals and O rings for Aircraft, Missiles, Ships & Submarine AN-32 Aircraft, LCA Tejas, CHARRIAR -Aircraft

Contribution to DRDO Projects/Programs

Processing & Manufacturing of test sample material & prototype components as per design & material composition supplied by DMSRDE.



AIMIL LIMITED

Company Name : Aimil Limited
 Contact Person : Arvind Verma
 Designation : CEO
 Address : Naimex House, A-8, Mohan Co-operative Industrial Estate,
 Mathura Road
 City : New Delhi – 110 044
 Contact Number : +91 11 30810200
 Fax : +91 11 26950011
 Email : info@aimil.com
 Website : www.aimil.com

AIMIL is a leading instrumentation company with offices at nine strategic locations in India. The company supplies instrumentation in the areas of RF and Microwave, industrial and geotechnical areas and has more than five decades of association with DRDO.

Contribution to DRDO Projects/Programs

RF/Microwave Test Equipment, components & subsystems

- RF/Microwave test equipment, components and subsystems
- Peak power meters
- Audio analyzers, signal generators
- Modulation analyzers
- RF voltmeters, network analyzers and spectrum analyzers



e2v Traveling wave Tube



Boonton Peak Power Meter

AJAY SENSORS & INSTRUMENTS

Company Name : Ajay Sensors & Instruments
Address : #45/17, Gubbanna Indl. Garden, 12th 'A' Cross, 6th Block,
Rajajinagar
City : Bangalore – 560 010
Contact Number : +91 80-23304997
Fax : +91 80-23381040
Website : www.ajaysensors.com

Ajay Sensors & Instruments is associated with DRDO in the area of Electronics & Instrumentation and provided Anti G suit rigs.

Contribution to DRDO Projects/Programs

M/s Ajay Sensors has been associated with DEBEL for the last 20 years in the design and fabrication of anti G suit test rig and related instrumentation. The anti G suit test rig meets the stringent requirements of MIL standard for testing anti G suit for leakage and endurance has been fabricated by the vendor. The initial non-automatic version has been replaced by the semi automatic test rig which is robust and meets the requirements of leak testing and 1000 continuous cycles of endurance testing at 15psi pressure. The test rig has been functional since the last 15 years and has been used to satisfactorily test a number of anti G suits during the process of development. Based on the test requirements and specifications given by DEBEL, the vendor is fabricating a fully automatic computer interfaced test rig for anti G suit. The firm has the capability to manufacture customized electronic test equipments.



ALFA ELECTRONIC SERVICES (I) PVT LTD

Company Name : Alfa Electronic Services (I) Pvt Ltd
Contact Person : B Sarat Chand
Designation : Managing Director
Address : 49-22-5, Sri Sai Mansion
Lalithanagar
City : Visakhapatnam – 530 016
Contact Number : +91 891 2790944
Fax : +91 891 2790893
Email : info@alfaelectronics.in
Website : www.alfaelectronics.in

Alfa Electronic Services (I) Pvt Ltd has competence for design and development of SCC units, power manager systems, mission timer, P-cable junction boxes, power amplifier units, MD, RU, system timer units for use in various DRDO projects.

Contribution to DRDO Projects/Programs

- SCC units for thermal torpedoes
- Power manager systems, mission timer, P-cable junction boxes for AUV
- Power amplifier units of AET Torpedo
- MD, RU, system timer units for WGT
- Test panels

ALLIED ELECTRONICS CORPORATION

Company Name : Allied Electronics Corporation
Contact Person : Pradip Bakul
Designation : Partner
Address : 12-D, Vikas Centre, SV Road, Santacruz (West)
City : Mumbai - 400 054
Contact Number : +91 22 26616619
Fax : +91 22 26616625
Email : allied@vsnl.com
Website : www.aecconnectors.com

Allied Electronics Corporation has developed various types of connectors for use in defence projects like Agni Launcher, RAM A-II Prime, Prithvi Launcher, Trishul Launcher, BLT Project, ARV Project, LCA – Ground Tracking System, Shelter Project, Shakti Project, MBT Arjun Project, S-RAX Mark-II, Houinduras Project Power Supply, Wire harnessing for PINAKA pod, Closing Cap for PINAKA pod, Mains Adaptor Unit for Army.

Contribution to DRDO Projects/Programs

- Connectors

ALLIGATOR DESIGNS PVT LTD

Company Name : Alligator Designs Pvt Ltd
 Contact Person : Pawan Seth
 Designation : Director
 Address : 2nd Floor, C Block, Kushal Garden Arcade,
 1A, Phase II, Peenya Industrial Area
 City : Bangalore – 560 058
 Contact Number : +91 80 41172393, 40878787
 Fax : +91 80 41172390
 Email : shobha@alligatordesigns.com
 Website : www.alligatordesigns.com

Alligator Designs Pvt Ltd established during year 2002-03, provides world class rugged product design solutions catering for extreme harsh environments. Product designs include rugged displays, VME64x/cPCI/PCI chassis/workstation, PCI server/workstation, rugged storage with RAID, command consoles, VME/cPCI backplanes, Gigabit and fast Ethernet switch, VME/cPCI mass storage boards, integrated rugged racks, custom designs and accessories for land, air and sea environmental conditions.

Contribution to DRDO Projects/Programs

- Air-borne consoles
- Ship-borne consoles
- ATR/rugged VME/cPCI/PCI chassis
- Rugged display
- Custom backplane



ALPHA-IMAGER PVT LTD

Company Name : Alpha-Imager Pvt Ltd
Contact Person : M Thiyagarajan
Designation : Managing Director
Address : 2711, 2 Main, HAL 3 Stage
City : Bangalore – 560 075
Contact Number : +91 80 25285288, 25213355 Mobile: +91 9844065688
Fax : +91 80 25282288
Email : sales@alphaimager.com
 thiyaga@vsnl.com
Website : www.alphaimager.com

Alpha-Imager established in 1987, has been serving the Defence Research labs by developing advanced electronics. Successfully developed many systems in India for the first time like multi-layer PCB with bonded heat sink, Actuator Test System for 640 mm Multi-layer Array PCB, Head-up Display Electronics.

Contribution to DRDO Projects/Programs

- PCBs
- SonarArray



ALPINE SYSTEMS

Company Name : Alpine Systems
 Contact Person : Deepak Gupta
 Designation : Proprietor
 Address : D39, Ground Floor, Vishwakarma Colony,
 Pul Prahaladpur, MB Road
 City : New Delhi – 110044
 Contact Number : +91 11 26364130 Mobile : +91 9873724765
 Fax : +91 11 26364130
 Email : info@alpinesystems.net.in
 Website : www.alpinesystems.net.in

Alpine Systems is associated with various projects of DRDO in the field of design and development of data acquisition, signal and video/image processing units for electro-optical instruments based on imaging sensors, advance thermal imagers and various types of lasers. Alpine has provided design, fabrication, assembly and testing of critical PCB cards.

Contribution to DRDO Projects/Programs

- Laser Range Meter Unit
- Signal processor for SDLRF
- Multi Layer (14 layers) PCB Designing
- Signal processing unit for Quadrant Detectors
- Simulator for target detection and tracking
- Customised miniature Reticule Card for aiming and firing
- IP cores for UART, memory controllers, cam-link, USB controller and FFT
- FPGA based high performance image/video processing board
- Remote power supply card for different thermal Imagers
- Interface card for CCD controller
- FPGA based processing board for gated imaging camera
- Flexi PCB for advance thermal imagers
- Amplifier for Laser Seeker Unit



ALTAIR ENGINEERING INDIA PVT LTD

Company Name : Altair Engineering India Pvt Ltd
Contact Person : Pavan Kumar
Designation : Managing Director
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Marathahalli Outer Ring Road
City : Bangalore – 560 087
Contact Number : +91 80 66294500
Fax : +91 80 6629 4700
Email : sales@india.altair.com
Website : www.altair.com

Altair Engineering India Pvt Ltd is involved in structural analysis and weight optimization of Aero Engine Fan Configuration, Finite Element Analysis of critical components of a 55 HP Rotary Engine for aerial application and design and development of composite MRB for helicopter.

Contribution to DRDO Projects/Programs

- Structural Analysis and Weight Optimization of Aero Engine Fan Configuration
- Design and Optimization of Rotating Components of Rotary Engine using FE Analysis
- Design and Development of Composite MRB for Helicopter

AMPHENOL INTERCONNECT INDIA PVT LTD

Company Name : Amphenol Interconnect India Pvt Ltd
Contact Person : Vijay Bhavsan
Designation : General Manager - Marketing & Sales
Address : Plot No. 105, Bhosari Industrial Area
City : Pune – 411 026
Contact Number : +91 20 30688303 Mobile : 9810124594
Fax : +91 20 27123146
Email : vbhavsan@amphenol-in.com
Website : www.amphenol-in.com

Amphenol Interconnect India Pvt Ltd has expertise in providing customised solutions for all types of electromechanical and electro-opto-mechanical connectors, Underwater electromechanical array connectors, 166-contact underwater array connectors and 36-contact underwater array connectors with NRV

Contribution to DRDO Projects/Programs

Developed underwater connectors for wet end modules of towed array sonar systems



AMTONE RUBBER INDUSTRIES

Company Name	: Amtone Rubber Industries	
Contact Person	: M Laskar	Rajib Ganguly
Designation	: Manager	Sales Executive
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City	: Howrah – 711 322	
Contact Number	: +91 33 26495130, 2781553	Mobile : +91 9830313153 9836750245
Fax	: +91 33 26619695	
Email	: amtone@vsnl.net	rajibnav@hotmail.com

Amtone Rubber Industries, established in 1983, is primarily assisting DRDO labs for development of rubber and plastic components.

Contribution to DRDO Projects/Programs

- Rubber and plastic items for day/night vision system
- Rubber and plastic items for tank instruments
- Rubber and plastic items for lasers and Naval systems

ANABOND LIMITED

Company Name	: Anabond Limited
Contact Person	: V. Andrew
Designation	: Sr. Manager
Address	: No.36, Type II, Dr.V.S.I. Estate, Thiruvannamipur
City	: Chennai - 600 04, Tamil Nadu
Contact Number	: +91 44 23460041 / 42 / 43
Fax	: +91 44 23460048
Email	: marketing@anabond.com
Website	: www.anabond.com

Anabond, established in 1979, for developing, manufacturing and marketing of Engineering Adhesives and Sealants. Anabond Products include Anaerobics, Epoxies, RTV Silicones, Polyurethanes, Rubber Based (Chloroprene & Butyl), Acrylic, Solvent Based Adhesives, Cyanoacrylate, Specialty Coatings etc. with more than 300 products. These products are used as a raw material for the manufacturing industry or for the service of different processing industries.

Contribution to DRDO Projects/Programs

Anabond Limited is a regular supplier of propellant grade Hydroxyl Terminated Poly-butadiene (HTPB) for DRDO labs and Ordnance factories. HTPB is used for improving mechanical properties of rocket propellants.

ANALOGIC CONTROLS INDIA LTD

Company Name : Analogic Controls India Ltd
 Contact Person : K Padmanabham
 Designation : Managing Director
 Address : Survey no- 23/2, P.o Gundlapochampally, NH-7 Via, Hakimpet
 City : Hyderabad – 500 014
 Contact Number : +91 40 27502803 Mobile :+91 9391145768
 Fax : +91 40 27165311
 Email : info@analogiccontrols.com
 Website : www.analogiccontrols.com

Analogic Controls India Ltd (ACIL) is a leader in the areas of embedded systems, product design from concept to realisation and turnkey solutions. Backed by rich expertise of over 250 man years in the field of microcomputer applications and a 80+ strong team of engineers and technicians, ACIL is serving the defence, space, industrial organisations, research and educational institutes across India since 1996. ACIL is CEMILAC approved.

Contribution to DRDO Projects/Programs

- Intelligent interface unit to activate digital outputs, read digital and analog inputs and work on a four wire RS 485 network.
- Flow monitor and control system to transfer hazardous liquids.
- Electromechanical drive control unit for Air Defence Gun
- Time Code generators based on GPS and backed by variety of clock sources
- Design of on-board, ground systems, test jig, vehicles equipping and integration.



ANANTH TECHNOLOGIES LTD

Company Name : Ananth Technologies Ltd
Contact Person : Dr Subba Rao Pavuluri
Designation : Managing Director
Address : Ananth info park, Plot no 39, HITEC City, Phase-II, Madhapur
City : Hyderabad - 500 081
Contact Number : +91 40 2354 4894
Fax : +91 40 6615 6531, 6615 6652
Website : www.ananthtech.com
Email : mail@ananthtech.com

Ananth Technologies Ltd has developed Power amplifiers for Torpedoes and Decoys.

Contribution to DRDO Projects/Programs

Development of power amplifiers for underwater weapons



Multi card for Torpedoes



Wide band power amplifier card for decoys



PSLV

APOLLO COMPUTING LABORATORIES (P) LTD

Company Name	: Apollo Computing Laboratories (P) Ltd	
Contact Person	: B Jaipal Reddy	
Designation	: Managing Director	
Address	: 12-13-197/403-405, Pavani Anasuya Tower, Tarnaka	
City	: Hyderabad – 500 017	
Contact Number	: +91 40 2700 3180	Mobile: +91 9848091553
Fax	: +91 40 2701 7523	
Email	: jaipal@apollocomputing.com	mktg@apollocomputing.com
Website	: www.apollocomputing.com	

Apollo Computing Laboratories (P) Ltd established in 1992 at Hyderabad is involved in the manufacturing of electronic systems in the domain of embedded computing for Agni-II, LCA, torpedoes, space and remote sensing. The range of products include MIL-STD-1553B based PC interface boards, IEEE-488 interfaces, parallel processing systems, real-time data acquisition systems, digital signal processing boards, embedded processor systems, special purpose hardware and strategic software development.

Contribution to DRDO Projects/Programs

- Missile interface units
- On-board computer systems
- Test jigs and systems
- Radar interface systems
- MIL-STD-1553B software proto-typing systems
- Portable avionics communication testers
- Productionisation of various systems
- Avionics software prototyping systems
- Avionics testing systems (AvTS)
- RT validation tester
- Gun control system
- Harness tester
- Flight dynamics simulator for LCA Project
- VME power supplies for air-cooled chassis
- MIL-STD-1553B interface systems for on-board LCA
- Stores Interface Box for on-board LCA



Missile Interface Unit



Stores Interface Box



Flight Dynamic Simulator

APOLLO HEAT EXCHANGERS PVT LTD

Company Name	: Apollo Heat Exchangers Pvt Ltd	
Contact Person	: NR Shah	BD Parikh
Designation	: Director	Development Manager
Address	: Indo Industrial Estate - II, Navghar Thane, Maharashtra	
City	: Vasai (E) – 401 210	
Contact Number	: +91 250 2390257	Mobile: +91 9322406878
Fax	: +91 250 2392121	
E-mail	: apollo2000@vsnl.net	
Website	: apolloheatexchangers.com	

The company is designing, manufacturing, testing and supplying compact aluminum heat exchangers with indigenous technology.

Contribution to DRDO Projects/Programs

- Oil coolers for gun carriage section for diesel engine of turret of MBT Arjun
- Cooling system for DT-600 for Abhay
- Cooling system for 1000 HP up-rated diesel engine for variance of MBT Arjun. Coolant heat exchanger (LH & RH), lube oil cooler (LH & RH), charge air cooler and fuel oil cooler
- Auxillary radiators for 1200 HP diesel engine
- Oil coolers for T-90 (Bhishma)
- Cooling system for NAMICA

APOLLO MICROSYSTEMS PVT LTD

Company Name : Apollo Microsystems Pvt Ltd
Contact Person : Karunakar Reddy
Designation : Managing Director
Address : Vaishnavi Complex, Street No-6, Habsiguda
City : Hyderabad – 500 007
Contact Number : +91 40 27176063, 27152281, 27154365
Fax : +91 40 27150820
Email : sales@apollo-micro.com
Website : www.apollo-micro.com

Apollo Microsystems Pvt Ltd, established in 1985 has rich heritage of advancing technology in the field of aerospace, defence, industrial automation, railways, automotive and energy sectors. It is a fast diversifying company, engaged in execution of turnkey projects with a proven track record.

Contribution to DRDO Projects/Programs

- Hardware design services
 - Embedded system designs
 - Multimillion gate FPGA based design
- Software services
 - E-CAD services
- High speed PCB design

APPS CONNECT TECHNOLOGIES PVT LTD

Company Name : Apps Connect Technologies Pvt Ltd
Contact Person : Sudip Shivali
Designation : Business Manager
Address : #429, 2nd floor, 12th cross, W.O.C Road, 2nd stage
Ahalakshmipuram
City : Bangalore - 560086
Contact Number : +91 80 23197929
Fax : +91 80 23197935
Email : sales@appsconnect.in
Website : www.appsconnect.in

Apps Connect Technologies Pvt Ltd has expertise in IC Design solutions, Embedded Systems, Compiler development, System-On-Chip (SoC) Layout Design, VLSI Integration, Verification and Fabrication.

Contribution to DRDO Projects/Programs

- Carried out SoC Backend design from Synthesis to post-layout Design
- ANUSANDESH Black and Red SoC



AR MACHINE TOOLS

Company Name : AR Machine Tools
Address : Plot No. 2, H No. 4-233/1, Besides St. Martin's High School,
Geetha nagar, Ferozguda
City : Sec'bad - 500 011
Contact Number : +91 40-23775335
Email : armachinetools@gmail.com

AR Machine Tools has is primarily involved in Machining, Assembling and Milling

Contribution to DRDO Projects/Programs

AR Machine Tools is a small scale industry with machining and assembling capabilities. It has developed various items of microwaves like antennas, different passive components for missile applications. The industry maintains the required high precision of N5.



Vacuum sealed HPM Antenna

ARIEN INC

Company Name	: Arien Inc	
Contact Person	: Shrikant Bagul	
Designation	: Proprietor	
Address	: 61/43, Bharatniwas Soc, Erandawane	
City	: Pune – 411 004	
Contact Number	: +91 20 24391212	Mobile: +91 9890639749
Fax	: +91 20 24391212	
Email	: arienpune@gmail.com	bagulsc@gmail.com

Arien Inc is a small scale industrial unit associated with DRDO for development of programmable electronic timer for ET Fuze, and electronic timer and sensor system ammunition.

Contribution to DRDO Projects/Programs

- Programmable electronic timer
- Electronic timer and sensor system ammunition
- Electronic modules for ET Fuze Pinaka
- Fuze setter unit

ARJA POWERTRONIKX

Company Name : Arja Powertronikx
Contact Person : A Haja Mohaideen
Designation : Proprietor
Address : 15 A, Syed Sahib Street, Khaja Nagar
City : Tiruchy – 620 020
Contact Number : +91 431 2351023 Mobile: +91 9789537765
Email : powerman_i@yahoo.com

Arja Powertronikx was established in the year 2000. The company is involved in manufacture and supply of electronic equipment with specialization in battery testing equipment. Product ranges are automatic life cycle tester, automatic capacity tester, automatic high rate discharge tester, automatic battery charger, digital ampere hour controller, battery data logger system and battery monitoring system.

Contribution to DRDO Projects/Programs

Automatic Battery Life Cycle Tester

- Automatic Battery Life Tester



Automatic Battery Life Tester

ARNAF FUTURISTIC TECHNOLOGIES (P) LTD

Company Name : Arnaf Futuristic Technologies (P) Ltd
 Contact Person : Sudhir Oberoi
 Designation : Director
 Address : H-43, Connaught Place
 City : New Delhi – 110 001
 Contact Number : +91 11 23322335 Mobile: +91 9811049440
 Fax : +91 11 41513001
 Email : arnafindia@vsnl.net

The company is involved in development of various safety products with DRDO since 1972. The parent company Oberoi Optical was the first to develop the visors for helmets of ejection seat aircrafts. The company in the year 1990 diversified in to manufacturing of safety garments and inflatable products and is a pioneer in the field of inflatables and are currently supplying the same to the IAF, Indian navy and coast guard.

Contribution to DRDO Projects/Programs

- Automatic inflatable life jackets, used in ejection seat of aircraft
- CFF jumpsuits and gloves for high altitude para jumping
- Flame retardant clothing for fighter pilots
- Anti-gravity suits for fighter aircraft



ARON HURLEY KONCEPTS PVT LTD

Company Name	: Aron Hurley Koncepts Pvt Ltd	
Contact Person	: Vipul Aron	
Designation	: Director	
Address	: C-18, Industrial Estate	
City	: Roorkee – 247 667	
Contact Number	: +91 1332 266008	Mobile: +91 9759565555
Fax	: +91 1332 266009	
Email	: sales@aronhurley.com	
Website	: www.aronhurley.com	

Aron Hurley Koncepts Pvt Ltd is a leading manufacturer of vibration testing equipment, laying strong emphasis on technology innovation for providing turnkey solutions to the aerospace, aeronautics and defence research establishments throughout the country. The strength of the company lies in its ability to develop power electronics hardware and digital signal processing technologies for producing and translating customised and application - driven design drawings of client(s) into the end product, incorporating embedded-controls and best power-to-space conversion concepts.

Contribution to DRDO Projects/Programs

- Simulated Environmental Tests

The company facilitates in conducting simulated environmental tests on electronic-warfare systems, large thrust engine sections, armament modules, strategic instruments, naval systems and tactical missile sub-sections for their design qualification and validation.



Simulated Environmental Tests

ART PRINT ROLLERS

Company Name : Art Print Rollers
Contact Person : V Subramanian
Designation : Partner
Address : 129 Arcot Road, Valasaravakkam
City : Chennai – 600 087
Contact Number : +91 44 42152922 Mobile: +91 9444033325
Email : aprdss@rediffmail.com

The company, established in 1980, is associated with DRDO for the past ten years in the area of acoustics. Polyurethane Elastomer cover is provided on the end covers of all underwater headers carrying the acoustic transducer assemblies and has excellent acoustical transmission property comparable with medium.

Contribution to DRDO Projects/Programs

- Polyurethane Elastomer Cover

ARUN FABRICS

Company Name : Arun Fabrics
Address : 14,2th Cross, Uday Nagar, Chikkalasandra, Uttarahalli main road
City : Bangalore-560 061
Contact Number : +9845443940

Arun Fabrics is developing Technical textiles and Hybrid fabrics.

Contribution to DRDO Projects/Programs

The industry was responsible for design and development of aramid and carbon fibre based hybrid fabrics on shuttleless looms. The industry was instrumental in translating the fabric engineering and mathematical approach principles and implemented the constructional features to achieve a superior technical textile. The structures were ideally suitable for stab resistant and composite applications.

ASKA EQUIPMENTS LTD

Company Name : Aska Equipments Ltd
Address : R-482, New Rajendra Nagar, Sir Ganga Ram Hospital Square
Shankar Road
City : New Delhi 110060 (India)
Contact Number : +91 11 49458800 Extn.851
Fax : +91 11 49458844
Website : www.askagroup.com

Aska Equipments Ltd. has its competency in developing Fire fighting appliances & systems and Portable handheld water mist gun for fire fighting applications.

Contribution to DRDO Projects/Programs

A portable water mist based fire extinguisher to be used as a first-aid fire fighting system for class A, class B and Electrical fires. The system is a light weight low pressure system, manually operated and can be held in hand or at the back of the personnel for fighting the fire. M/s Aska Ltd is Technology Development Partner through TOT for commercialization of the system.



First Production Prototype



233B- Flammable liquid pool fire suppression

ASL ADVANCED SYSTEMS PVT LTD

Company Name : ASL Advanced Systems Pvt Ltd
Contact Person : Pradeep Tambadkar
Designation : Genral Manager
Address : No.70/1, Pragathi, Miller Road
City : Bangalore – 560 052
Contact Number : +91 80 22258376-79 Mobile: +91 9845138211
Fax : +91 80 22203350
Email : contact@asladvancedsys.in
Website : www.asladvancedsys.in

ASL has supplied integrated design solutions with high technical standards and documentation meeting specific requirements of DRDO.

Contribution to DRDO Projects/Programs

- GPS Receiver model GPS 9312A-1
- GPS Receiver model DL 9501 & GPS 2000
- Model GPS MARG 9405, GPS MARG 9405N, model 9801
- Mode 'S' system for Airborne Interrogator for ASP
- INS-GPS integrated unit (HW and SW) to RCI, Hyderabad.
- L1 C/A code transmitter
- Ground based beacon system receiver



ASTONISH ENGINEERING PVT LTD

Company Name : Astonish Engineering Pvt Ltd
Contact Person : Nishikant S Thakur
Designation : Managing Director
Address : 2085, Sadashiv Peth, Vijaynagar Colony
City : Pune – 411 030
Contact Number : +91 20 24333234 Mobile: +91 9823036949
Fax : +91 20 25444497
Email : astonish@dataone.in
Website : www.astonish.co.in

Astonish has been associated with armament and high energy material research at DRDO laboratories since 1990 and has contributed by developing several components of IGMDP projects.

Contribution to DRDO Projects/Programs

- Wire harnessing system for Pinaka Multi Barrel Rocket Launching system
- Squib plugs
- Shearing pins

ASTRA MICROWAVE PRODUCTS LTD

Company Name	: Astra Microwave Products Ltd
Contact Person	: MV Reddy
Designation	: General Manager (Mktg)
Address	: Astra Towers, Survey No. 12(p), Kothaguda Post, HITEC City,
City	: Hyderabad - 500084
Contact Number	: +91 40-3061800, 040-30618001
Website	: www.astramwp.com

Astra Microwave Products Ltd is engaged in design, development and manufacture of RF and Microwave systems used in Defence, Space, Telecom and Meteorology Applications. The company has developed Radio Proximity Fuze System for the Production of AKASH, AAD, PDV and ASTRA missiles.

Contribution to DRDO Projects/Programs

ASTRA MICROWAVES (AMPL) has a long association with Defence in design, development and manufacturing of RF and Microwave systems for RADAR, Telemetry, Surveillance and Radio Proximity System.

The following projects have been taken up and executed successfully in close association and guidance of RCI

AKASH RPF

TRISHUL RPF

ASTRA RPF

RPF_SOC including fabrication of MFCs

AKASH and TRISHUL RPF

AMPL has taken up the development of Radio Proximity Fuze in 1999. The design of Transmitter, Receiver, Antenna and DSP were given by RCI. A total of 30 sets were produced and delivered to RCI. The units developed for AKASH are successfully flight tested during development trials.

AMPL delivered 108 AKASH RPF production units including antenna to BDL. AMPL is having more than 500 nos of RPF order presently.

ASTRA

AMPL has been associated with RCI right from feasibility study and prototype development of ASTRA RPF. AMPL is developing RPF for ASTRA missile according to the design given by RCI. This is a 3 channel Tx/RX system with miniaturized RF super components.

Indigenous RPF (RPF_SOC)

AMPL has contributed to indigenisation of RPF by fabrication MFCs required for the project. AMPL has participated in assembly, testing and standardization of the custom made MMICs designed for RPF Project. The vendor has taken up the packaging, testing and qualification of the RPF_SOC units.

Antenna and Radiation Tests

AMPL has taken up the fabrication, testing and validation of different antenna systems required for RPF. The open air radiation test facility of AMPL has been used to validate the RPF design in radiation mode.

ATLAS AUTOMOTIVE COMPONENTS LTD

Company Name : Atlas Automotive Components Ltd
Contact Person : K Unnikrishnan
Designation : Executive (Sales & Marketing)
Address : Block D/2, Link Road-II, MIDC, Chinchwad
City : Pune – 411 019
Std Code : +91 20 27473856 Mobile: +91 9890998926
Fax : +91 20 27470358
Email : sales.atlas@atlasauto.co.in

Atlas Automotive Components Ltd has developed and supplied Aluminium Alloy Roadwheels for armoured vehicles for use by Armed Forces.

Contribution to DRDO Projects/Programs

- Aluminium Alloy Roadwheel for tank



AUSTIN ENGG CO LTD

Company Name	: Austin Engg Co Ltd	
Contact Person	: J Krishnan	Jana Prasad
Designation	: VP (Mktg [OEM])	VP (Global Business Dev)
Address	: 101, GIDC Estate, Vadal Road,	
City	: Junagadh – 362 003	
Contact Number	: +91 285 2600068	Mobile : +91 9825220217
Fax	: +91 285 2661505	
Email	: jk@aecbearings.com	Jana.prasad@aecbearings.com
Website	: www.aec-bearings.com	

Austin Engg Co Ltd has developed and supplied three different sizes of bearings which conform to high precision class (ABEC5 and RBEC5) bearings. Developed and supplied four different bearings and for more are under development for Kaveri Engine.

Contribution to DRDO Projects/Programs

Bearings for fitment in Light Combat Aircraft



AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA

Company Name	: Automotive Research Association of India	
Contact Person	: Shrikant R Marathe	
Designation	: Director	
Address	: S. No. 102, Vetal Hill, Off Paud Road, Kothrud	
City	: Pune – 411 038	
Contact Number	: +91 20 30231101, 25431284	Mobile: +91 98909 32862
Fax	: +91 20 25434190	
Email	: arai@vsnl.com	
Website	: www.araiindia.com	

Since beginning Automotive Research Association of India (ARAI) has been serving DRDO labs in design, development and testing of their products. ARAI also carries out EMI/EMC evaluation, material testing and evaluation services for many Defence Organisations and their suppliers.

Contribution to DRDO Projects/Programs

Some of the recently executed projects at their Engine Development lab, NVH & CAE lab and Structural Dynamics lab are

- Design review and design upgradation of V-12 water-cooled diesel engine for tank application to upgrade its existing power from 735 kW to 1050 kW. This project is ongoing.
- Design analysis of selected components such as cylinder head, valve train, manifolds and crank train components for V-12 air-cooled diesel engine for tank application.
- Bi-axial static strain measurement and durability evaluation for strut mounting arm.
- Static and dynamic test on hydro pneumatic suspension units
- Static and dynamic test on in-arm suspension units
- Static and dynamic test on hydro gas suspension units
- Radial stiffness and dynamic test of steel track assembly
- Durability evaluation of guide rail assemblies for rocket launcher developed
- Strain and acceleration measurement on hydro pneumatic missile launcher



AUTOTEC SYSTEMS PVT LTD

Company Name	: Autotec Systems Pvt Ltd	
Contact Person	: I Satish Kumar	
Designation	: Managing Director	
Address	: 177/6B, Ashraya Ornate, Bilekahalli Bannerghatta Road	
City	: Bangalore – 560 076	
Contact Number	: +91 80 40327600	Mobile: +91 9845170665
Fax	: +91 80 40327676	
Email	: satish@autotecsistemas.com	
Website	: www.autotecsistemas.com	

Autotec Systems has been associated with a number of prestigious Indian Defence Programs. Autotec has dealt with a host of COTS products for a wide range of military applications and these are on industry standard bus architectures like ISA, PCI, cPCI, VXI, VME, PCC, PMC, PC-104 etc and based on a number of operating systems like Windows, Linux, RT-Linux, Vx Works, Lynx OS, etc.

Contribution to DRDO Projects/Programs

- **Embedded Solutions**

- o Mission computers/display computers for LCA program and Su-30 Program.
- o Radar computers for Su-30 Program..
- o Core avionics computer for MIG-27/29 upgrade Program.
- o On-board computers for Akash Program
- o On-board computers for WGT/AET Program for naval applications
- o KADECU for LCA Program
- o DTU, DRI, SACU interface box, RWR test stations, etc., have also been developed and delivered

- **Data Acquisition and ATE**

DAS and ATE solutions based on VXI/PXI/GPIB/Custom platforms for various DRDO laboratories. The significant ones are loop back testers, avionics computer test stations, generic analog tester, real time DAS, solar cell tester, high speed DAS, static test jig, automated test equipment, DAS for Tomography, PC based DAS, lightning impulse measurement, DAS for 168 channels, offline test simulator, DAS for testing of planetary gear box of pulverizer.



Photograph of the Products Developed for DRDO

BAB HYDRAULICS PVT LTD

Company Name : BAB Hydraulics Pvt Ltd
Contact Person : D Buchibabu
Designation : Managing Director
Address : 24B, Model Colony
City : Hyderabad – 500 038
Contact Number : +91 40 23414818
Fax : +91 40 23417173
Email : dbbabu@gmail.com

Mobile: +91 9848113457

BAB Hydraulics has developed hydraulic control surface actuation system for use in thermal torpedoes of DRDO.

Contribution to DRDO Projects/Programs

- Hydraulic control surface actuation system for thermal torpedo



BADAWE ENGINEERS PVT LTD

Company Name : Badawe Engineers Pvt Ltd
 Contact Person : Satyajit Badawe
 Designation : Director
 Address : 26 Amar Society, Gulmohar Path
 Off Law College Road, Erandawane
 City : Pune – 411 004
 Contact Number : +91 20 25433879
 Fax : +91 20 25446759
 Email : svb@badawegroup.com
 Website : www.badawegroup.com

Badawe Engineers Pvt Ltd has been working in the field of defence electronics for last 24 years and catering to the needs of DRDO labs.

Contribution to DRDO Projects/Programs

- Launcher control systems
- Automation for multi span bridge laying battle tanks
- Transmitter and receiver up to KU band
- Stabilised airborne and vehicle mounted tracking systems (with GPS and AGC based tracking)
- Stabilised servo platforms for naval application
- Airborne data repeater platforms
- Precise programmable tilt sensors
- Ruggedised limit switches
- Single and multi axes (roll, pitch yaw) simulators and test platforms for payloads up to 40 T
- X-Y target positioners
- Flight control and uplink-downlink systems for UAV



BARCO ELECTRONIC SYSTEMS PVT LTD

Company Name : Barco Electronic Systems Pvt Ltd
Contact Person : Ms Mary Geoge
Designation : Business Development Manager
Address : A-38, B&C, Sector-64
City : Noida – 201 301
Contact Number : +91 120 4020000 Mobile : + 91 9971696953
Email : Sales.besl@barco.com
Website : www.barco.com

Barco's innovative visualization solutions provide full range of rugged displays. Barco offers video solutions, large-screen visualization platforms for Common-Operational-Picture, deployable computers and Command & Control workstations which can be configured to provide a complete range of rugged COTS solutions.

Contribution to DRDO Projects/Programs

- Rugged displays
- Immersive simulation displays
- Multiple multi-channel display systems
- 3D visual technology.



BDS ELECTRONICS

Company Name : BDS Electronics
Contact Person : SN Sharma BN Mehra
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Address : 132, 1st Main Road, Seshadripuram
City : Bangalore – 560 020
Contact Number : +91 80 23360323 Mobile: +91 9980303369\
Fax : +91 80 23340710
E Mail : bdsefactory@bsnl.in

BDS Electronics is associated with DRDO for the last 25 years in developing and manufacturing defence equipment like Exploder Dynamo Condensor, Generator-Hand Firing for Indian Army.

Contribution to DRDO Projects/Programs

- **Junction Box (Rotary Base Junction)**

For providing electrical and audio signals from the stationary hull to the rotary turret of the MBT Arjun tank.

- **Summer Head Set with Throat Microphone**

For Arjun tank, for providing communication between the commander and crew of the tank.



BEMCO HYDRAULICS LIMITED

Company Name : Bemco Hydraulics Limited
Contact Person : Anirudh Mohta
Designation : Joint Managing Director
Address : Udyambag, Khanapur Road
City : Belgaum – 590 008
Contact Number : +91 831 4219000, 2441980
Fax : +91 831 2441263
Email : bemco@satyam.net.in
Website : www.bemcohydraulics.net

Bemco has developed Hydraulic Extrusion Presses for development of conventional as well as advanced solid rocket propellants like Extruded Double Base (EDB), Cast Double Base (CDB), Composite Propellants (CP), Nitramine propellants.

Contribution to DRDO Projects/Programs

Bemco has contributed in DRDO projects by supplying following presses/equipment

- Hydraulic extrusion presses for development of conventional as well as advanced solid rocket propellants like EDB, CDB, CP and Nitramine propellants.
- Hydraulic cordite extrusion presses for extrusion of single base, double base and triple base solvent propellants.
- 1000 T capacity remote controlled powder compacting press for development of fuel rich propellant.
- 10 T remote controlled hydraulic hoist for LINAC system having longitudinal, cross and vertical movement



BEML LTD

Company Name : BEML Ltd
 Contact Person : T K Doshi
 Designation : GM(Defence Business - Marketing)
 Address : 5th Floor, Unity Building, JC Road
 City : Bangalore – 560 002
 Contact Number : +91 80 22963518 Mobile : +91 9880570809
 Fax : +91 80 22963520
 Email : mi@beml.co.in.
 Website : www.bemlindia.com

Manufacturing/customising vehicle platforms and integration of superstructures viz., for missile related programmes, Sarvatra bridge systems, short span bridge systems, masts, radars, command posts, etc.

Contribution to DRDO Projects/Programs

- Sarvatra truck mounted bridging system
- Missile fuel transporter
- Missile launcher
- Cranes
- Oxidiser carrier
- Field artillery tractor
- Mast with surveillance Radar

Sarvatra Truck Mounted Bridging System



Missile Fuel Transporter



Warhead Carrier



Missile Launcher (Tatra 6x8)



P-II Launcher on Tatra



Oxidiser Carrier



Crane (Tatra 6x6)



Field Artillery Tractor (Tatra 6x6)



Mast With Surveillance Radar

BENGAL WATERPROOF LIMITED

Company Name	: Bengal Waterproof Ltd	
Contact Person	: RN Wahie	
Designation	: Vice President - Mfg	
Address	: 41, Shakespeare Sarani	
City	: Kolkata – 700 017	
Contact Number	: +91 33 22901601	Mobile: +91 9830555604
Fax	: +91 33 22901652	
Email	: debasish@duckback.com	
Website	: www.duckback.com	

Bengal Waterproof Limited (BWL), is known as pioneer of rainwear industry in India, under brand name of Duckback. BWL have been manufacturing various products for individual consumers and also for the industrial sector. As a part of BWL business promotion policy, they offered their services to DRDO, to develop life saving products. BWL are also the recipient of National Award for excellence in indigenization of NBC Overboot.

Contribution to DRDO Projects/Programs

- **Anti-Gravity Suit**

Anti-gravity Suit, like MK-II Cutaway type for MIG, MK-III for Sea Harrier, MK-IV for LCA, Hawk and Tejas. Further, products like Oxygen mask for high altitude aircrafts, HAPO bag, hydro suit with breathing bag have also been successfully developed.

- **NBC Equipment**

Activated charcoal coated non-woven fabric, NBC Overboot,

NBC decontamination suit, which are meant for use in chemical warfare.

- **SRE Float**

Balloon systems (Torroidal)

Photographs of the Products for DRDO



BHARAT DYNAMICS LTD (BDL)

Company Name : Bharat Dynamics Ltd
Contact person : Mr BS Prasad
Designation : GM
Address : Kanchan bagh
City : Hyderabad – 500 058
Contact Number : +91 40 2458 7054
Fax : +91 40 2434 2566
Email : bdbdl@ap.nic.in
Website : <http://bdl.ap.nic.in>, bdlltd@ap.nic.in

BDL is a DPSU (Mini Ratna category -I company) primarily engaged in productionisation of guided Weapon Systems.

Contribution to DRDO Projects/Programs

BDL is the production agency for Missile Systems & Subsystems (e.g. Imaging Infrared Seeker (IIR Seeker))



BHARAT ELECTRONICS LTD

Company Name	: Bharat Electronics Ltd
Contact Person	: Mr Anil Kumar
Designation	: Chairman & Managing Director
Address	: Bharat Electronics Limited, Outer Ring Road, Nagavara
City	: Bangalore – 560 045
Contact Number	: +91 80 25039300
Fax	: +91 80 25039305
Email	: corpcomn@bel.co.in
Website	: www.bel-india.com

Bharat Electronics Limited (BEL) is a DPSU under the Ministry of Defence established to meet the specialised electronic needs to the Indian Defence services.

Contribution to DRDO Projects / Programs

- Sonar systems for Indian Navy as per NPOL design
 - Hull Mounted ship sonar system
 - Submarine sonar
 - Integrated Submarine Sonar
 - Advanced Hull Mounted ship sonar system
 - Advanced Torpedo Defence System
 - CTD sensors with data logger
- IR sights & Thermal Imagers
- Imaging Infrared Seeker(IIR Seeker)
- Electronic & Microwave Systems
- Semiconductor Bridge
- Productionization of Microwave Tubes, MPMs, Electronic Power Conditioners
- Microwave Power Modules, Microwave tubes(Travelling wave tubes)
- Batteries and Electro-Optical Systems & Laser systems for defence.
 - Light Weight Laser Target Designator with Thermal Imager for Artillery
 - Light weight portable laser target designator with thermal imager for Airforce
- Gap Measuring Device Mk III
- EO systems & Electronics

- Electro-optical Fire Control System for Naval Ships
- Tank Electronics
- MBT Arjun Fire Control System - GMS, CPS & FCC
- Fabrication & Assembly of optics and thermal imaging systems.
 - Integrated Multi-function Sight (IMFS)
 - Commander's Non Panoramic Sight for AFVs for T-72, T-90 and BMP-II
 - Holographic Sight for small weapons
 - Driver Night Sight
- Weapon Sight for MMG
- Naval Fire Control Systems
- Military Communication Systems
- C4I Systems
- Radar systems
- Electronic Warfare Systems
- Avionic Products
- Telecom & Broadcast Systems
- EVMs
- Security Systems
- MW Super Components
- Weapon Systems
- Fire detection and suppression system for armoured fighting vehicles, armoured personnel carriers and military aircrafts.
- Electro-optical systems
- Laser Dazzlers
- IIR Seekers
- Semiconductor Bridge for use as an ignitor of explosives to replace the combined wire fuse.
- Radars
- Sonars
- Underwater Systems
- Electronic Warfare

- Command Control Systems
- Communication and Encryption
- Electro-optics
- Avionics
- Missile Programme
- Combat Vehicle Programmes
- Antennas
- Microwave Tubes
- Development of IFDSS for MBT Arjun MK-I

Micro controller based IFDSS was designed and developed by CFEES. The system was accepted by Army after user trials. A production order for fabrication of 124 sets of IFDSS was placed on M/S BEL Kotdwara. M/S BEL Kotdwara has supplied 124 sets of IFDSS to HVF. These sets have been installed in production tanks of Arjun MBT MK-I (Total cost of order =Rs. 381,92,000/-).

- Development of IFDSS for BMP-2/2k.

State of the art microcontroller based miniaturized IFDSS has been designed and developed by CFEES for BMP-2/2K. The system was accepted by Army after user trials at MIRC, Ahmednagar. The system is in production, M/S BEL, Kotdwara has fabricated and supplied 2551 set of IFDSS to (Total cost of order = Rs. 168 Cr.)

- Development of miniaturized IFDSS for MBT Arjun MK-II.

Miniaturized IFDSS has been designed & developed by CFEES for MBT Arjun MK-II. The system was trial evaluated on production tanks of Arjun MK-II at PFFR, Suratgarh.

- Design & development of control unit for fire protection system of AN- 32 aircraft.

Laser Dazzlers to BEL



SCB Device under production at BEL



LLTD



GMD Mk-III



LWPLTD



Electro-optical Director on-board INS Shivalik



GMS



CPS



FCC



Holographic Sight



Integrated Multi-function Sight



Cdr Sight for T-90



Cdr Sight for T-72 & BMP



BSS Vehicle



Hand Held Short range laser dazzler

BHARAT RUBBER INDUSTRIES

Company Name	: Bharat Rubber Industries
Contact Person	: Aravind Bhandarkar
Designation	: Proprietor
Address	: B-17, BEL Industrial Estate, Jalahalli
City	: Bangalore – 560 013
Contact Number	: +91 80 23452786
Fax	: +91 80 23450380
Email	: bri@bri.net.in
Website	: www.indiamart.com/bharatrubber

Bharat Rubber Industries has developed competence to manufacture NBC Resuscitator, EMI Gaskets, O-rings, electrically conductive rubber components, Oxygen Mask Assembly, Rubber Spacers, sleeves, and chords.

Contribution to DRDO Projects/Programs

Developed and supplied following rubber products to various units

- EMI Gaskets
- O-rings
- Oxygen Mask Assembly
- Rubber Spacers

BHILAI STEEL PLANT

Company Name	: Bhilai Steel Plant – Steel Authority of India Ltd	
Contact Person	: Bharat Lal	
Designation	: General Manager I/C (Mills & Quality)	
Address	: Research & Control Laboratory Building, Chhattisgarh	
City	: Bhilai – 490 001	
Contact Number	: +91 788 2222040	Mobile: +91 9425239116
Fax	: +91 788 2222040	
E-mail	: bharatlal@sail-bhilaisteel.com	
Website	: www.sail-bhilaisteel.com	

Bhilai Steel Plant, in association with Defence Research & Development Organisation and Indian Navy, had embarked upon developing special grade plate, which is equivalent to ABA grade, through secondary refining with inclusion morphology control and temperature controlled rolling/normalising. This route of processing has replaced the Quenching and Tempering (Q&T) route being followed by overseas manufacturers of this grade.

Contribution to DRDO Projects/Programs

- DMR 249A Grade Steel plate
Special grade steel plate equivalent to ABA grade



DMR 249A Grade Plate



BHUKHANVALA CERAMICS PVT LTD

Company Name : Bhukhanvala Ceramics Pvt Ltd
Contact Person : Niraj P Bhukhanwala
Designation : Director
Address : 8th Floor, B28, Veera Industrial Estate, Andheri (W)
City : Mumbai – 400 053
Contact Number : +91 22 4064 9000 Mobile :+91 982061288
Fax : +91 22 6692 0605
Email : niraj@bdtlimited.com

The company in close association with DRDO has developed various advanced ceramic solutions in materials like Boron Carbide, Alumina, Silicon Carbide, various borides for applications in Body Armour, Vehicle Armour, Helicopter Armour, Nuclear Shielding Applications.

Contribution to DRDO Projects/Programs

Developed high density near net shape components:

- Pellets
- Plates



BIT MAPPER INTEGRATION TECHNOLOGIES PVT LTD

Company Name : BIT Mapper Integration Technologies Pvt Ltd
Contact Person : Rakesh Mehta, Mrs. Pournima Mehta
Designation : Technical Director Commercial Director
Address : B1, Mayur Complex, Opp Bhelke Nagar, Kothrud
City : Pune – 411 038
Contact Number : +91 20 25386926, 29
Fax : +91 20 25386930
Email : bitmapper@vsnl.net
Website : www.bitmapper.com

BIT Mapper Integration Technologies Pvt Ltd is involved in design & development of electronics systems

Contribution to DRDO Projects/Programs

- Homing Controller for torpedoes



Homing Controller for torpedoes

BONIK INTERNATIONAL

Company Name : Bonik International
 Contact Person : PK Sen
 Designation : Partner
 Address : 52/1A, Tollygunge Road
 City : Kolkata – 700 026
 Contact Number : +91 33 24660896, 24638056 Mobile: +91 9836112075
 Fax : +91 33 24635596
 E-mail : bonikintsen@satyam.net.in

Bonik International is a small scale unit, primarily involved in development, indigenization and manufacture of electrical and electromechanical equipment for various types of defence vehicles, i.e., MBT Arjun besides supplying specialized equipment to the non-defence industry for the last 26 years.

Contribution to DRDO Projects/Programs

- DC motors
- Fans
- Tacho-generators
- Electromagnets and Solenoids
- Hull wire
- Jumpers
- Connectors



BRAHMOS AEROSPACE THIRUVANANTHAPURAM LTD (BATL)

Company Name	: BrahMos Aerospace Thiruvananthapuram Ltd (BATL)
Contact Person	: S Venugopal
Designation	: Executive Director
Address	: Airport Road, Chackai, Beach Post
City	: Thiruvananthapuram
Contact Number	: +91 471 2501325, 2500360
Fax	: +91 471 2500702
E-mail	: trivandrum@brahmos.com
Website	: www.brahmos.com

BrahMos Aerospace Thiruvananthapuram Ltd. (BATL) is a wholly owned subsidiary of BrahMos Aerospace Pvt Ltd., New Delhi. BATL has developed and realised a wide-ranging array of precision and critical products for Defence Research & Development Organisation, Indian Space Research Organisation, and Department of Atomic Energy. BATL is an ISO-9001:2000 company equipped with multi-disciplinary activities ranging from design conceptualisation, material procurement, precision machining, metal forming and welding, heat-treatment and surface-treatment. BATL is an approved work centre for the Light Combat Aircraft Programme of DRDO. The combustor assembly, compressor casings, liner assemblies and the afterburner casings are realised at BATL.

Contribution to DRDO Projects/Programs

- Rocket
- Air booster
- Underwater booster
- Pitch & Yaw motors
- Gas generators for K-15
- Nozzles
- RCS-VTP components
- Ball-lock separation system

CADENCE DESIGN SYSTEMS

Company Name : Cadence Design Systems
Contact Person : Mr A Singh
Designation : Manager
Address : 2nd floor, 3B Building, RMZ Ecospace, Sarjapur Outer
Ring Road
City : Bangalore
Contact Number : +91 80 41841111
Fax : +91 80 41841122
Email : asingh@cadence.com

Cadence Design Systems is engaged in development of EDA tools for IC Design, PCB Designs and Services, EDA IC Simulator and Layout tools.

Contribution to DRDO Projects/Programs

EDA Tools and SoC-Interface Chip.



CADES DIGITECH PRIVATE LTD

Company Name	: Cades Digitech Private Ltd	
Contact Person	: Mantha Vekentramana	
Designation	: DRDO Account Manager	
Address	: Kirloskar Business Park, Block- C, 2 nd floor, Hebbal	
City	: Bangalore – 560 025	
Contact Number	: +91 80 41939000	Mobile : +91 9845237337
Fax	: +91 80 41939099	
Email	: vr.mantha@cadestech.com	anjan@cadestech.com
Website	: www.cadestech.com	

Cades provides projects, consulting and R&D services to aerospace, defence and automotive industry. The company has core competencies in the areas of engineering design, engineering analysis, multi-body dynamics, virtual prototyping & testing, manufacturing engineering, product data management and technical publication. Cades is approved by CEMILAC and DGCA for Aerospace and Defence Product design. Cades is certified for ISO 9001:2000, ISO/IEC 27001 and AS 9100B. Cades has been involved in concept design, detailed design, analysis, manufacturing and certification support to various DRDO establishments for aerospace, armament, combat vehicles, missiles and UAV programs

Contribution to DRDO Projects/Programs

- Leading Edge Vortex Controller and Stub wing for LCA Naval version.
- Composite dorsal unit for AEW&C program.
- Internal & external layout visualisation model for AEW&C aircraft.
- Digital mock up, assembly tools and technical documentation for K9 project.
- Centre fuselage of an UAV
- Wind tunnel model design, analysis, fabrication and wind tunnel testing of UAV configurations
- Thermal analysis of an ESM POD of fighter aircraft
- Pressure Vessels and metal lined composite Air Bottles.
- Engine air intake cowl mechanisms and simulation of heat shield separation for HSTDV program
- Fixtures for vibration tests and impact analysis of bomblets
- CFD estimation, in-bore dynamics, sabot separation and trajectory of a projectile
- Transmission system of a combat vehicles
- Design optimisation of suspension system of a truck
- Roof mounted and nose mounted Sighting System & Gimbal assembly including weight optimisation and improved heat management performance.



CALCUTTA COMMERCIAL CORPORATION

Company Name : Calcutta Commercial Corporation
Contact Person : Vijay Ojha
Designation : Partner
Address : B2/1B # 102, Safdarjung Enclave
City : New Delhi – 110 029
Contact Number : +91 11 26182091 Mobile: +91 9811021725
Fax : +91 11 26182092
Email : ojhaacc@yahoo.com

Calcutta Commercial Corporation in collaboration with DRDO labs have designed and developed various items for use by troops, under sub-zero conditions at high altitudes.

Contribution to DRDO Projects/Programs

The following products have been developed

- Bag in bag sleeping bag for –50°C
- Tent glacier 10-12 men complete
- Aluminium alloy LM 10 joints for tent extendable in pressure die casting
- Light weight extreme cold region suits
- Life jacket MKI & MKII
- Tent ammunition
- Tent pent house and night shelter
- NBC gloves
- Overall garments

CARAVEL INFO SYSTEMS PRIVATE LIMITED

Company Name	: Caravel Info Systems Private Limited
Contact Person	: K Shah Nawaz Khan
Designation	: MD
Address	: #24, 1A Main Road, ST Bed, Koramangala, Bangalore - 560 034 52, Bannerghatta Road, BTM Layout, 1st Stage, 1st Phase
City	: Bangalore 560029
Contact Number	: +91 80-25538631, 41281111
Fax	: +91 80-25538632, 4128 0203
Email	: kskhan@caravelindia.com
Website	: www.caravelindia.com

Caravel Info Systems Private Limited has its core competency in Embedded Systems

Contribution to DRDO Projects/Programs

Caravel Info systems has developed a single board solution with two subsystems, one for general purpose computing and other for security sensitive processing, based on ANURAG's SoCs - MigaCore/SoC-Flash and SoC-Flash. In these two sub-systems, one sub-system is interfaced as a PCI client to other sub- system, using a COTS based PCI to local bus bridge, and communicate using the dual port RAM which is mapped in to the address space of other sub-system like a PCI device. General purpose computing system has all the features of a regular desktop computer. Apart from developing the hardware, they are also involved in development of BIOS for this system, to provide the BIOS services required for bringing up the operating system. The company has also contributed to the following items:

- o ABACUS SOC-V1 Based Networking Gateway System
- o ABACUS Soc-V1 Based Desktop System
- o Dynamic Reconfigurable Hardware on Embedded Development Platform
- o Abacus SoC-V1 Based Gateway System
- o Trusted Computing Platform Prototype using SoC-Flash and ANUCIA
- o Trusted Computing Platform using ANURAG's SoCs MIGACORE, SoC-Flash and ANUCIA



CATHODIC CONTROL COMPANY PVT LTD

Company Name : Cathodic Control Company Pvt Ltd
 Contact Person : Mr V Babu Sathian
 Designation : MD
 Address : Plot No 87, III Phase, Industrial Area, Bangalore 560058
 City : Bangalore 560058
 Contact Number : +91 80 2839 5327/28
 Fax : +91 80 28395807
 Email : ppil@satyam.net.in
 Website : www.cathodiccontrol.com

Cathodic Control Company Pvt Ltd is involved in production of sacrificial anodes, Impressed Current Cathodic Protection (ICCP) components and shaft grounding system for marine application.

The firm is ToT partner of NMRL for following products

- (a) Indium activated Al alloy sacrificial anodes (MK I to MK XII)
- (b) Both Pt-Ti and Pb-Ag anode ICCP system including auto control unit for Naval ships

Contribution to DRDO Projects/Programs

The firm has successfully absorbed above technologies developed by NMRL. Above products have been successfully inducted in Navy and are being supplied by the firm to users.





CENTRAL ELECTRONICS LIMITED (CEL)

Company Name	: Central Electronics Limited (CEL)
Contact Person	: Dr. V.K. Kaul
Designation	: General Manager
Address	: CEL, 4, Industrial Area, Sahibabad – 201010 (U.P.)
City	: Ghaziabad
Contact Number	: +91 120-289 5150
Fax	: +91 120-289 5142, 289 5148
Email	: cel@celsolar.com
Website	: www.cellIndia.co.in

Central Electronics Limited (CEL) has pioneered the production of ferrite phase shifters at C- band and X- bands. The production of Dual Mode Phase Control Modules (PCMs) have been undertaken by CEL, after the successful know-how transfer from IITD, and SSPL, Delhi with the active support from LRDE. CEL is also involved in development of Phase Control Modules, IFF, CZT & Piezo, CZT Crystals, Ferrite Phase Control Modules.

Contribution to DRDO Projects/Programs

Central Electronics Limited (CEL), Sahibabad, is a public sector undertaking under Department of Scientific and Industrial Research. CEL, Sahibabad has made significant contributions in the DRDO projects related to its IR programmes. Cadmium Zinc Telluride (CZT) is a strategic material and its substrates are used for the Mercury Cadmium Telluride epitaxial growth for the IRFPA development programme of the Solid State Physics Laboratory, Delhi. The unavailability of the CZT substrates, due to US sanctions, led SSPL to develop the technology on growth of CZT crystals and fabrication of its substrates at SSPL and transfer it to CEL, Sahibabad for production. A complete CZT crystal growth facility was created at CEL by SSPL/DRDO in 2000 and a baseline technology was transferred to them and demonstrated by producing 300 CZT substrates. Since then the technology has been constantly upgraded through input from SSPL's R & D work with considerable improvements in quality and yield. CEL has absorbed this technology and is regularly producing and supplying CZT substrates to SSPL. These substrates are being used for the IR programme of the laboratory. SSPL is no longer dependent on the import of CZT substrates and has become self - reliant in this area.

Specific Contribution made to DRDO Projects/Programs

1. Name of Project : **Production of Cadmium Zinc Telluride (CZT) Substrates**



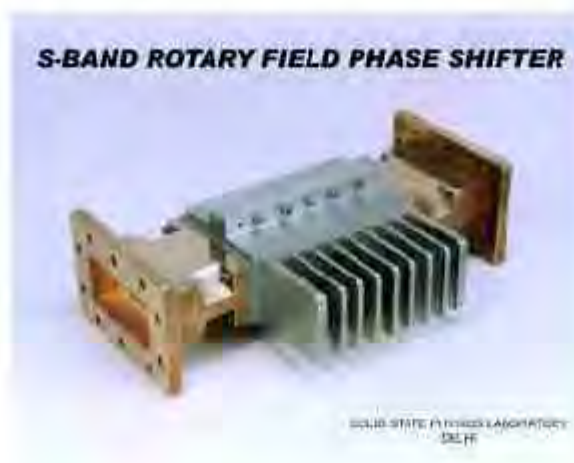
2. Name of Project : Development of C- band Dual Mode Ferrite Phase Shifter



3. Name of Project : Development of C- band Rotary Field Ferrite Phase Shifter



4. Name of project : Development of S- band Rotary Field Phase Shifter



CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE

Company Name	: Central Manufacturing Technology Institute	
Contact Person	: Guru Murthy	Shashi Kumar
Designation	: Joint Director	Joint Director
Address	: Tumkur Road	
City	: Bangalore – 560 022	
Contact Number	: +91 80 23370459, 22188301	Mobile: +91 9449842679
Fax	: +91 80 23370428	
E-mail	: pvs@cmti-india.net	
Website	: www.cmti-india.net	

The symbiotic relationship between Central Manufacturing Technology Institute (CMTI) and DRDO is an example of an enduring cohesive national networking effort for collaborative R&D established through policy interventions at the highest levels in the national context. An objective collaborative relationship based on specific deliverables of strategic relevance has been fostered by close working groups of DRDO and CMTI.

This 'sustainable back end' support for Defence R&D has been evolving for over more than two decades into an enduring relationship of interdependence in technology advancement. Indigenous capability for design and development of special products and systems has been firmed up generating a pool of vital 'tacit knowledge' through practical forays into realisation of products and processes.

CMTI has been given challenging opportunities by DRDO for special product realisation, technology development for realisation of complex mechanical systems and components, special testing requirements for qualifying elements and systems, etc. Recognition has come through awards of appreciation by DRDO.

Contribution to DRDO Projects/Programs

- Special mixers for R&D in pyrogenic materials
- Trimming machines for rocket motors
- Bubble point test rigs for filter elements
- Contra rotating propellers with complex profiles
- Practical realisation of special testing protocols and systems for testing for airworthiness of aeronautical accessories and subsystems
- Ultrasonic test reference masters



CENTRAL TOOL ROOM

Company Name	: Central Tool Room An Indo-German Project	
Contact Person	: AP Sharma	
Designation	: General Manager	
Address	: A-5 Focal Point	
City	: Ludhiana – 141 010	
Contact Number	: +91 161 2670057, 2670058	Mobile: +91 9872320993
Fax	: +91 161 2674746	
Email	: info@ctrludhiana.com	
Website	: www.ctrludhiana.com	

Central Tool Room, Ludhiana was established in the year 1980 as a result of bilateral agreement on technical cooperation between Govt of India and Germany. Since then it has grown as a leading tool room and rapid prototyping centre in India.

Contribution to DRDO Projects/Programs

- Moulds for plastic components
- Low cost thermal imager (LCTI)



Therma Imager

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Company Name : Centre for Development of Advanced Computing (C-DAC)
 Contact Person : R Mohanachandran
 Designation : Scientist G
 Address : Vellayambalam
 City : Thiruvananthapuram – 695 033
 Contact Number : +91 471 2727508 Mobile: +91 9847028082
 Fax : +91 471 2723456, 2722230
 Email : mohanchandran@cdac.in
 Website : www.cdactvm.in

Centre for Development of Advanced Computing (C-DAC), has been associated with DRDO labs and contributing significantly in providing advanced computing solutions for use in critical equipment enhancing their operational capabilities.

Contribution to DRDO Projects/Programs

- Dual DSP boards
- Torpedo Advanced Light
- MultiSHARC boards
- Underwater ranges
- Digital data recorder
- Signal and noise simulator
- Echosounder for river reconnaissance
- Acoustic landmine detection



Dual DSP Boards



Multi SHARC Boards



CENTUM ELECTRONICS LIMITED

Company Name : Centum Electronics Limited
Address : 44, K.H.B. Industrial Area, Yelahanka, Bangalore-560064
City : Bangalore-560064
Contact Number : +91 80 4143 6000
Fax : +91 80 4143 6005
Email : sajeesh@slr centum.com
Website : www.centumelectronics.com

Centum Electronics Limited is involved in following activities for DRDO:

- Significant design experience in electrical, mechanical and high reliability customized product development solutions
- Manufacturing technology including; thick and thin film hybrids, wire bonding, chip on board and quartz crystal processing, all certified to the highest MIL standards and the Indian Space Research Organisation, ISRO
- A certified testing and screening laboratory and clean rooms including class-100K, 10K and Class-100LFT
- Quality systems and processes including; MIL-PRF-38534, MIL-STD-883E, MIL-PRF-55310, ISRO-PAX-300, ISO 9001-2000, TS- 16949, AS9100 (under certification process)
- PCB Design manufacturing and population for various Products

Contribution to DRDO Projects/Programs

Contributed towards the manufacturing and population of PCBs of Ring Laser Gyroscope (RLG).



CII GUARDIAN INTERNATIONAL LTD

Company Name : CII Guardian International Limited
 Contact Person : PK Koshy
 Designation : Managing Director
 Address : 149, Girinagar
 City : Cochin – 682 020
 Contact Number : +91 484 2316606
 Fax : +91 484 2317032
 Email : guardian@md2.vsnl.net.in
 : pkkoshy@guardiangroup.in
 Website : www.ciiguardian.net
 : www.guardiancontrols.com

CII Guardian International Limited, a unit located in Cochin Special Economic Zone, entered into a development contract with DRDO in the year 1996 for the development of hermetically sealed relays to MIL specifications. CIIG has successfully completed the development of TO5, relay meeting MIL specifications. Subsequent to this development, they have obtained approval from LCSO and then from DSCC, USA to manufacture relay to MIL 39016 specifications. Various types of TO5, Mini Grid and Half Crystal Can Relays are currently produced at CIIG facility. CII Guardian is the largest exporter of MIL grade relays and the only company in India approved by DSCC, USA to manufacture relays to MIL 39016 specifications.

Contribution to DRDO Projects/Programs

- TO5/mini grid/half crystal can relays



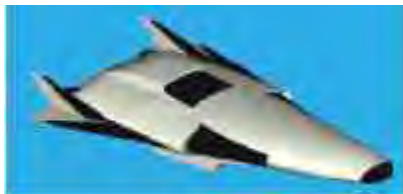
CIM TECHNOLOGIES

Company Name : CIM Technologies
 Contact Person : Satyanarayana Yedidi
 Designation : Proprietor
 Address : F-5/A, Road No. 16, Phase-I, IDA, Jeedimetla
 City : Hyderabad – 500 055
 Contact Number : +91 40 23094978 Mobile : +91 93462 37965
 Fax : +91 40 30510209
 Email : satyayedidi@cimtechnologies.in
 Website : www.cimtechnologies.in

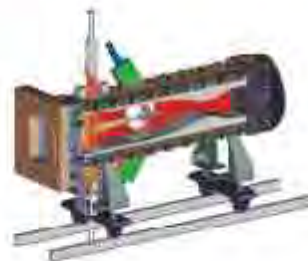
CIM Technologies is a product development company with proven capabilities in system level design, engineering, drawing, specifications, material procurement, machining, fabrication, assembly, prototyping, limited batch production, environmental and functional testing of complete products. Their activities cover integration of systems such as mechanical, mechanisms, hydraulics, pneumatics, electrical, electronics, instrumentation, control systems, data acquisition, embedded software, etc.

Contribution to DRDO Projects/Programs

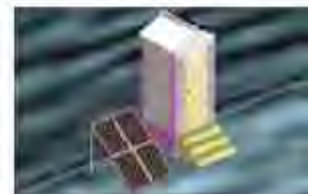
- Hypersonic Test Vehicle and Single Stage to Orbit Reusable Launch Vehicle
- Containerization of ammunition bin
 - Concept design
 - Engineering, prototyping and testing
- Incidence angle and proximity plate mechanisms for the 2D supersonic wind tunnel
 - Site installation and commissioning
- Design, development and prototyping of solar powered temperature controlled biodigester
 - Design, development and prototyping of Remotely Operated Vehicle ROVER



Hypersonic Test Vehicle - HTV



Remotely Operated Vehicle (ROVER)



CIPY POLYURETHANES PVT LTD

Company Name	:	Cipy Polyurethanes Pvt Ltd	
Contact Person	:	Subash Cipy	
Designation	:	Managing Director	
Address	:	T-127, MIDC, Bhosari	
City	:	Pune – 411 026	
Contact Number	:	+91 20 66316400	Mobile: +91 9822064580
Fax	:	+91 20 27120491	
Email	:	subash@cipypolyurethane.com	
Website	:	cipypolyurethane.com	

Cipy Polyurethanes Pvt Ltd has jointly developed electrostatic discharge Floorkote systems to safeguard installations. Cipy's ESD Floorkote system is a conductive flooring system that can drain static charges by grounding personnel, equipment or other objects contacting the floor surface.

Contribution to DRDO Projects/Programs

- ESD Floorkote System
- Polyseal CS
- Conductive sealant for use in LCA

CIREL SYSTEMS PRIVATE LIMITED

Company Name : CIREL Systems Private Limited
Contact Person : A Nagraj
Designation : Vice President (Sales)
Address : 303, A Block, AECS Layout, Kundalahalli
City : BANGALORE -37
Contact Number : 9845211727

CIREL Systems Private Limited is involved in ANALOG SoC Design, Fabrication and Characterization

Contribution to DRDO Projects/Programs

- Data Acquisition and Control SoC for Onboard Computer



CMC LIMITED

Company Name	: CMC Limited	
Contact Person	: K V Ramana	
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City	: Hyderabad – 500 032	
Contact Number	: +91 40 66578500	Mobile: +91 9849984073
Fax	: +91 40 23000509	
Email	: kvramana@cmcltd.com	

Over the past two decades, CMC - Defence group has been providing customized solutions and addressing various paradigms of design needs across the entire lifecycle of products. Powered by a blend of outstanding technological capability and rich industry knowledge, the embedded systems practice has played a critical role in helping defence customers to reduce time-to-market, improve cost effectiveness, exceed their product design objectives and operate with extended engineering teams to embrace product development.

Contribution to DRDO Projects/Programs

- Military /Space/civilian satellite communications
- Enemy intrusion detection & battlefield surveillance
- Electronic warfare
- Marine control systems
- Flight Control and Simulators
- 3D Modeling and Simulation, Mathematical Modeling
- C 4 I, C 3 I, remote sensing, geoinformatics, GPS technology, FADHS, IACCS technologies
- Mil-Grade certification & communication standards
- Missile on board & ground system S/W
- Independent verification and validation



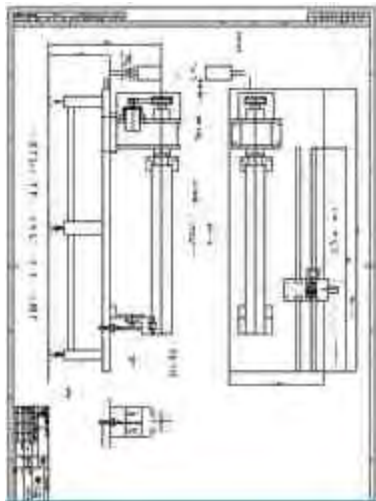
CNC INDIA TOOLS & SERVICES (P) LTD

Company Name	: CNC India Tools & Services (P) Ltd	
Contact Person	: Badrinath	
Designation	: Director	
Address	: Regd Office 34/9, Srinivasa Complex, 1 floor, 6 Main, Narasimhalu layout, SC Bose Circle, Outer Ring Road	
City	: Bangalore – 560 096	
Contact Number	: +91 80 23378487, 23378491 +91 80 41276281	Mobile: +91 9845079769
Fax	: +91 80 23374730	
E mail	: badri@cnc-india.com	projects@cnc-india.com

CNC-India Tools & Services (P) Ltd was conceptualised in the year 1993 and since then is catering to all ISRO and defence group companies in the field of retrofitting and reconditioning, AMC contracts, special purpose machines, turnkey projects, design and development of hydraulic and mechanical fixtures and special combination boring tools. It is engaged in providing specialised services to DRDO over the past one year.

Contribution to DRDO Projects/Programs

- Tools and machinery



CNC TECHNICS PVT LTD

Company Name	:	CNC Technics Pvt Ltd
Contact Person	:	B Vijaya Krishna
Designation	:	Director
Address	:	3A Type-1, Kukatpally, Industrial Estate, Hyderabad-500 072
City	:	Hyderabad-500 072
Contact Number	:	+91 40 2307 8000, 2307 9414
Fax	:	+91 40 230 7598
Email	:	cnc@cnctechnics.com
Website	:	www.cnctechnics.com

CNC Technics Pvt Ltd is involved in development of Fibre Reinforced Plastic and Composite Cylinders for Oxygen Systems

Contribution to DRDO Projects/Programs

The industry is involved in the design and development of composites and composite cylinders (plastic liner based) for high pressure oxygen storage applications. The specific requirements of composite properties for high pressure cylinders have been translated using the facilities available with the industry. The industry has carried out stress analysis of the cylinders for predicting the performance properties.



COMAVIA SYSTEMS TECHNOLOGIES

Company Name : ComAvia Systems Technologies
 Contact Person : Thomas Varughese
 Designation : Managing Director
 Address : 1, St.Mary's Church Road, Jalahalli Post
 City : Bangalore – 560013
 Contact Number : +91 80 23456488
 Fax : +91 80 28385713
 Email : info@comavia.com, sales@comavia.com

Comavia Systems Technologies is involved in design and development of Avionics Products and Projects involving both Hardware and Software for DRDO.

Contribution to DRDO Projects/Programs

- Software Integration Rigs for the dual redundant Mission Computer for JAGUAR Fighter Upgrade Programme at Hindustan Aeronautics Ltd (HAL)
- Avionics Integration Rig at Aeronautical Development Agency (ADA) and upgrade of the same for Light Combat Aircraft (LCA) at Aeronautical Development Agency (ADA)
- Complete Software residing on the Hydraulic, Engine and Electrical Monitoring (HEEM) Rig for Light Combat Aircraft (LCA) at Aeronautical Development Agency (ADA)
- Simulation and Acquisition system for the Multi-Mode Radar Test System Rig at Centre for Airborne Systems (CABS)
- Design, Specifications, Testing, Maintenance and Support for the Core Avionics Computer Software jointly with Defence Avionics Research Establishment (DARE) for MIG 27 Upgrade
- Complete hardware and software constituents of MIG 27 Upgrade Integration Rig at Defence Avionics Research Establishment (DARE)
- Design and Development of the Open Architecture Computer Rig at Aeronautical Development Agency (ADA) for Light Combat Aircraft (LCA)
- Design and Development of Environment Control and Fuel Management Rig at Aeronautical Development Agency (ADA) for Light Combat Aircraft (LCA)
- Analysis of Control Laws (CLAW) for LCA program
- System Integration Rig for Unmanned Aerial Vehicles (UAV) at ADE to perform functional tests on all LRUs onboard the NIRBHAY
- System Interface Designer for AEW&C Program at CABS
- System Simulation Facility for AEW&C Program at CABS
- ATE for Open System Architecture Mission Computer (OSAMC)
- ATE for IDFCP for Bharat Electronics
- Software Integration Rig for Open System Architecture Mission Computer
- Device Driver development for various interfaces for operating systems like VxWorks, QNX, Win CE and RT Linux

COMPTEK COMPUTER SYSTEMS PRIVATE LIMITED

Company Name : Comptek Computer Systems Private Limited
 Contact Person : KRK Vithal
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 Email : comptek@satyam.net.in
 Website : www.comptekindia.in

Comptek Computer Systems Pvt Ltd (An ISO 9001:2000 Company), which pioneered indigenous manufacture of industrial/rugged computer products in the country since 1991, has over the years, designed, developed, manufactured, tested and delivered a wide range of industrial and rugged computer systems to DRDO labs and the defence production units and has been serving the country through its indigenous efforts. Some of the projects awarded to Comptek by DRDO include the Rugged Display Processor and Customized Keyboards for airborne applications and a Display Processor with LC Display for heli-borne applications meeting MIL 810D/ JSS55555 environmental specifications and EMI/EMC as per MIL 461 standards and DDPMAS 2000, which were successfully designed, tested and delivered.

Contribution to DRDO Projects/Programs

- Rugged Display Processor



COMPUPOWER PRIVATE LIMITED

Company Name : Compupower Private Limited
 Contact Person : JP Yeruabandi
 Designation : Managing Director
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 City : Hyderabad – 500 034
 Contact Number : +91 40 23354583,
 +91 40 23352538 Mobile :+91 9849057441
 Fax : +91 40 23394654
 Email : compupowerindia@yahoo.com,
 info@compupowerindia.com
 Website : www.compupowerindia.com

Compupower Private Limited, Hyderabad, India, over the years has earned the recognition of Indian Aerospace industry for its capability to produce highly reliable Data Bus Couplers for MIL STD-1553B avionics applications. Data bus products have been qualified, type approved and are being used by various aerospace organizations for various programmes for MIL STD-1553B applications for the last 16 years. The Data Bus Couplers conforming to MIL STD-1553B were developed as import substitute primarily for LCA, Jaguar and MIG-21 upgrade projects in the year 1992 and the necessary qualifications and type approvals were obtained from CEMILAC.

Contribution to DRDO Projects/Programs

- Data bus harnesses/networks
- Bus networks for use in missile and aircraft



COMSAT SYSTEMS PVT LTD

Company Name : Comsat Systems Pvt Ltd
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City : Hyderabad – 500076
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Fax : +91 40 27155045
Email : johns@comsatsystems.co.in
Website : www.comsatsystems.co.in

Comsat Systems has been involved in design, manufacture and supply satellite communication antenna systems to DRDO.

Contribution to DRDO Projects/Programs

Designed, manufactured and supplied the following satellite communication antenna systems to DRDO.

- 4.6 m Ku band transportable antenna system mounted on a trailer
- 1.8 m C/Ku band mobile VSATS
- 9.3 m C/Ku band linear/circular 4 port receive only antenna system with Rx electronic chain to 70 MHz
- 4.6 m Ka band, receive only, 2 port antenna systems with Rx electronic chain to 70 MHz
- Satellite antenna S Band



CONCEPT SHAPERS & ELECTRONICS PVT LTD

Company Name	: Concept Shapers & Electronics Pvt Ltd	
Contact Person	: Kumud Raghunarayan	Amit Mahajan
Designation	: Director- Fin & Admn	Director- Bus Devl
Address	: 103, Veena Industrial Estate, Behind Monginis Factory, Off Link Road, Andheri (W)	18/A, Electronic Complex, Kushaiguda Industrial Area, ECIL POST
City	: Mumbai – 400 053	Hyderabad – 500 062
Contact Number	: +91 22 26736545, 27123435	+91 9870495440 9821546106
Fax	: +91 22 26736635	+91 22 27123437
Email	: kr@conshape.com	amit@conshape.com
Website	: www.conceptshapers.com	

Concept Shapers & Electronics Pvt Ltd, established in 1988, has been associated with continual contribution to the Indian Defence sector for the last 20 years. It was primarily established to provide customised solutions to Defence. The company had many successful endeavors including participation in various projects: BFSR, Brahmos, Bharani, BLT-T72, Humsa, MAREECH.

Contribution to DRDO Projects/Programs

- The Control and Display unit for the BFSR(SR) Project
- Designed and manufactured in large volumes. This MIL-grade classified system is the MMI in tracking infiltrations in the harsh environments along the border
- Cabinet cum console
- Commercially-off-the-Shelf electronics to a MIL application



Control and Display unit



iBaird-2705VR



Router



CORNET TECHNOLOGY (INDIA) PVT LTD

Company Name	: Cornet Technology (India) Pvt Ltd	
Contact Person	: R Rajkumar	
Designation	: Country Manager	
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City	: Chennai – 600 020	
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Fax	: +91 44 24426060	
Email	: rajkumarr@cornetindia.com	
Website	: www.cornetindia.com	

Cornet Technology (India) Private Ltd, is a wholly owned subsidiary of Cornet Technology Inc., Virginia, USA. As an industry partner of DRDO, Cornet Technology specializes in board development comprising hardware and firmware in areas such as VME, VXS, cPCI, DSP, VLSI, Linux and other RTOS porting like VxWorks.

Contribution to DRDO Projects/Programs

- PowerPC 7448, Single, Multi Sharc Tiger Sharc DSP boards and PMC based graphics, 1553, SDLC, dual Ethernet and I/O cards
- 16 node system parallel computing system and ported Linux on to the ABACUS processor



CORE CARBIDE TOOLS

Company Name	:	Core Carbide Tools	
Contact Person	:	Mr VK Anjaneyulu	
Designation	:	Proprieter	
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Contact Number	:	+91 40 2307 0399	Mobile: +9490117883
Fax	:	+91 40 2307 7011	
Email	:	corecarbide tools.vv@gmail.com	
Website	:	www.corecarbide tools.com	

Core Carbide Tools is involved in Machining of Ceramic radomes and INVAR to manufacture INVAR bulk head metal ring.

Contribution to DRDO Projects/Programs

Till today all ceramic radomes for missile seeker applications were imported. Research Centre Imarat (RCI) is indigenously developing Slip Cast Fused Silica Radomes for seeker application. As a part of development, Fabrication of Radome shells were made successfully. They have to be machined Internally and Externally to required thickness minimizing the ovality. Also machining of the radomes are important to get required dimensional and fabrication tolerances which directly influence the EM performance. This is highly skilled and technical job. As the radomes are brittle and difficult to machine such radomes to be done carefully. Also the radomes have to be threaded and to be joined to INVAR metal ring bulk head for final integration.

Core carbide tools is locally known manufacturing/machining agency that could undertake the complete machining (both internal and external surface) of the ceramic radome as it requires specialized tailor made equipment and skill. The company carried out machining of the radome meeting the required specifications which suits the design criteria of our seeker (both Internally and externally and make threads on the inner surface of the radome). RCI developed the vendor to its specific requirement of such precision and skillful job.



**Machined Radome and INVAR
Metal Bulkhead ring**

COREEL TECHNOLOGIES (I) PVT LTD

Company Name : CoreEL Technologies (I) Pvt Ltd
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Designation : MD
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Website : www.coreel.com

Customised solutions for electronics modules, Subsystem development and testing, System integration

- Quad MPC 8640 VPX single Board Computer
- Hyperlynx Signal Integrity Tool
- ModelSim Tool for FPGA simulations
- Multi channel signal conditioner PCBs (GEbC 2 &3 PCBs)

Embedded, FPGA, ASIC, PCB Design and Services

SoC-Compute Integration, Verification and Validation on FPGA Prototyping platform

Contribution to DRDO Projects / Programs

Developed PowerPC 8640 based VPX single board computers, and custom PCBs for sonar signal processing and display applications. SoC-Compute Integration, Verification and Validation on FPGA Prototyping platform.



COROMANDEL ELECTRONICS & AGENCIES

Company Name : Coromandel Electronics & Agencies
 Contact Person : YMS Narayana Murthy
 Designation : Proprietor
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 City : Visakhapatnam – 530 020
 Contact Number : +91 891 2711136
 Fax : +91 891 2711137
 Email : makcea@rediffmail.com

Coromandel Electronics & Agencies was established in 1985 and undertakes design, development, manufacture and indigenise custom made PCBs, power/electronic controls & systems for industrial and R&D applications in Visakhapatnam.

Contribution to DRDO Projects/Programs

- Product Indigenisation
 - Indigenised engine room alarm cards & timer cards of Holland
 - Low speed sensing units, IRS switching units, level shifters & junction boxes & recovery logic unit
 - Control PCBs for bauver converter
 - PT-100 (MS.S) converter module
- Product Development
 - Instrumentation buoy
 - Command & filter module
 - Power & pre-amplifier
 - Electronic circuit timer
 - Speed change mechanism
 - Seismic sensing units
 - Switch ring modules
 - Battery switching unit (star board)
 - Zone & fire alarm cards
 - Preset PCBs
 - DC to DC converters
 - Thyristor control panel
PCB for ELL & EOT cranes



CRAFTSMAN INDIA

Company Name	:	Craftsman India	
Contact Person	:	A Dhanvantari	
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City	:	Hyderabad – 500 072	
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Fax	:	+91 40 23076578	
Email	:	indiacraftsman@yahoo.co.in	

Craftsman India (CI) is dedicated to the development of Naval Weapon Systems. CI is a SSI unit serving DRDO Labs for more than 25 years. Recently, DRDO bestowed “Appreciation Award” in recognition of services provided. CI developed many electro-mechanical devices.

Contribution to DRDO Projects/Programs

- Safety arming mechanisms
- For different types of underwater and ground mines



Safety Arming Mechanism

CROWN RUBBER PRODUCTS

Company Name	: Crown Rubber Products	
Contact Person	: Patkotwar Vinod	Shah Sudhior
Designation	: CEO	GMO
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City	: Pune – 411 026	
Contact Number	: Phone: +91 20 27470721, 27481921, 4676321	Mobile: +91 9823068221
Fax	: +91 20 27476121	
Email	: crownvpp@vsnl.com	crownvpp@dataone.in
Website	: www.crownrubber.in	

Crown Rubber Products (CRP) has a sophisticated tool room for die making and develop items for Pinaka rocket. Many rubber items for Pinaka rocket have been developed. The state-of-the-art injection moulding machines have given consistency in production and maintain critical tolerances. CRP has developed Silicon rubber washer, rubber washers and three types of O rings in Neoprene rubber items for Pinaka rocket. The compounding facilities at CRP provide different grades and varieties of materials to suit the end product.

Contribution to DRDO Project /Programs

- Silicon rubber components

DASS HITACHI LIMITED

Company Name	: Dass Hitachi Limited	
Contact Person	: KT Venkateshwaran	
Designation	: Vice President	
Address	: 8/9th Milestone, GT Road, Sahibabad, Post, Mohan Nagar	
City	: Ghaziabad - 201 007	
Contact Number	: +91 120 2638400/500	Mobile: + 91 9871070646
Fax	: +91 120 2634660, 23010128	
Email	: dhl@dasshitachi.com	
Website	: www.dasshitachi.in	

Dass Hitachi Ltd has been associated with DRDO for past two decades in variety of disciplines and development of hardware systems. For the defence forces, a number of development projects have been undertaken jointly with DRDO, bringing in a number of new products within the supply range.

Contribution to DRDO Project /Programs

- Integrated Field Shelter
 - Underground NBC field shelter accommodates 30 personnel and is completely self-contained for 96 hours.
- Mobile and Static EMI/EMC Shelters
 - EMI/EMC mobile and static state-of-the-art shelters are environmentally protected over pressurised and NBC hardened.
- NBC Protection Systems
 - NBC Laboratory on wheels
 - Scooping device for NBC Recce Vehicle

It picks up the contaminated samples from ground for analysis





OROP

PRITHVI

INDIA

DATA PATTERNS (INDIA) PVT LTD

Company Name	: Data Patterns (India) Pvt Ltd
Contact Person	: Wg Cdr R Soundararajan
Designation	: Senior Vice President - Marketing
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City	: Bangalore - 38
Contact Number	: +91 80 42424141
Fax	: +91 80 42424144
Email	: soundar@datapatterns.co.in
Website	: www.datapatternsindia.com

Data Patterns specialises in electronic systems for defence and aerospace applications, and has established a strong technology base in avionics, radars, RF&MW, control, navigation, fire control and automatic test equipment. The company also provides embedded and application software packages.

Contribution to DRDO Projects/Programs

- Radars
 - Signal processing, computing, digital IF processing, and central unit for radars, up/down converters
- RF Equipment
 - RF exciter, low noise receivers, wide band receivers, oscillators, synthesisers, modulators.
- Avionics
 - Displays, flight control computers, mission computers, protocol converter, on board computers, embedded timers
- Control and Navigation
 - INS, actuator controllers, servo systems
- Fire Control System
 - For missiles, torpedoes, UAV
- ATE
 - ATE for avionics, digital flight control computer, automatic cable harness test systems, inertial navigation platform test systems, and gimbal test systems.



Receiver Exciter
for Airborne Radar



Flight Control
System for UAV



Display for LCA



IMU for Torpedo



Fire Control System
for BrahMos

DATASOL (B) PRIVATE LIMITED

Company Name : Datasol (B) Private Limited
 Contact Person : R Venkatesh
 Designation : Director
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 Adj Ganesh Temple, New Thippasandra
 City : Bangalore – 560 075
 Contact Number : Phone: +91 80 25273911 Mobile : +91 9845079138
 Fax : +91 80 25200456
 Email : venkatesh@datasol-india.com
 Website : www.datasolindia.com

The company has expertise in design, development and production of various systems such as cockpit displays, IFF and navigation systems.

Contribution to DRDO Projects/Programs

- Cockpit displays
- Integrated standby instrument systems
- Conduction cooled VME
- SIPU - Acquires all aircraft parameters through ARINC channels
- IFF (Identification of Friend or Foe)
- Mast moment signal conditioning unit
- DISHA - Inertial navigation package designed for AUV Programs. Supports 3 Axis Accelerometer, 3 Axes rate with in-built algorithms for Pitch and Roll
- Master Warning Flasher



DEEPTI ELECTRONICS & ELECTRO-OPTICS PVT LTD

Company Name	: Deepti Electronics & Electro-Optics Pvt Ltd	
Contact Person	: Dr MR Sheshadri	KR Lakshmana Murthy
Designation	: Managing Director	Director
Address	: # 3 & 4, 1st Cross, 7th Main, JC Industrial Area, Off Kanakapura Main Road	
City	: Bangalore – 560 062	
Contact Number	: +91 80 26668216	
Fax	: +91 80 26660809	
Email	: deepti.in@delopt.co.in	
Website	: www.delopt.co.in	

Deepti Electronics & Electro-Optics Pvt Ltd., (DELOPT) Bangalore, was established in the year 2000 with a vision to be in high tech area of embedded and electro-optic systems, providing complete solution from concept to completion. Quality products, excellent client relationships and on-time deliveries have ensured DELOPT's success. DELOPT owes its success to its young, energetic and qualified manpower guided by experienced seniors with more than 10 years of cumulative experience in DRDO.

Contribution to DRDO Projects/Programs

- Avionics systems
 - LCA (Tejas)
 - Multifunction upfront control panel
 - VME I/O card
 - Actuator test set
 - Stores management system (Weapon Integration Facility)
 - ALH (Indian Helicopter)
 - High speed DAS card
 - RPV (Military unmanned aircraft)
 - Engine electronics unit
 - Automatic laser pointing system
 - MBT Arjun
 - Video tracker and Gimbal system
- Saransh
 - Three channel modems (VME RF Modem)
- Prerana
 - Mission computer
 - Instrumentation system
 - Actuator system

DIEFRAME TOOLROOM ENGINEERING

Company Name : Dieframe Toolroom Engineering
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 MIDC, Bhosari, Maharashtra
 City : Pune – 411 026
 Contact Number : +91 20 27119903 Mobile: +91 9822004443
 Email : dieframe@yahoo.com,
 dieframe@gmail.com

Dieframe Toolroom has developed highly effective silencer for Modern Sub Machine Carbine (MSMC) for DRDO.

Contribution to DRDO Projects / Programs

- Silencer
For Modern Sub Machine Carbine (MSMC)
- Under Barrel Grenade Launcher (UBGL)
The shooting rest has the provision to elevate the weapon to any degree from 0 to 60 deg the rest could also be adjusted in +/-20 deg.in transverse direction according to requirement. The rest also absorbs recoil of 60 Joules max
- Gauges. For MSMC



UBGL REST FEATURES :-
 1) Provision to elevate the weapon from 0 to 60 deg.
 2) Transverse positioning to +/- 20 deg.
 3) Recoil absorbing capacity being upto maximum recoil (RAM) F.
 4) Capable carry for field use.
By DEFRAME TOOLROOM ENGG. PUNE.

DIGITRONICS

Company Name : Digitronics
 Contact Person : Vijay V Damle
 Designation : Proprietor
 Address : 36/24/22, Electronic Cooperative Estate Ltd
 Pune - Satara Road
 City : Pune – 411 009
 Contact Number : +91 20 24226619, 24227926, 24228646, 24228647
 Fax : +91 20 24224557
 E-mail : digismps@gmail.com

Digitronics design, develop and produce, power supplies for use in defence equipment. Digitronics regularly supplies specialised power supplies to ISRO, BARC, IGCAR.

Contribution to DRDO Projects/Programs

- Power Supplies

AES Mk II (SMPS, DC-DC, BC), Samyukta (non comm - Single and multi O/P SMPS of various ratings), Ellora (SMPS), EMCA (SMPS), Ajantha (SMPS), PR 6020 (SMPS), IMT (AC/DC I/P multi O/P PSU), Arjun MBT- CPS (DC-DC/DC-AC PSU), Arjun MBT PS & IU (DC-DC), LCA (DC-DC), Trishul (SMPS), MICA (DC-DC), Reporter Radar (SMPS), Bramhos (SMPS), Code 5 (DC-DC with RAM, RPM, EMI Filter), Agni (SMPS), Prithvi (SMPS), Nishant (DC-DC, sine wave inverter), Lakshya (RAM, DC-DC), Akash (SMPS), WLR/BLR (SMPS), MOSAIC (SMPS), NAG, ACCCS (SMPS, DC-DC, BC) LCS (SMPS), ETS (SMPS), 3.5 KV Firing Supplies (DC-DC), Shakti (SMPS), Sudarshan (DC-DC).



Power Electronics for AES MK II Shelters



Power Module

DYNALOG INDIA LTD

Company Name : Dynalog India Ltd
 Contact Person : Shivkumar Natarajan
 Designation : Director Technical
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 City : Mumbai – 400 079
 Contact Number : Phone: +91 22 25181900 Mobile: +91 9324088725
 Fax : 91 22 25181930/1940
 Email : sales@dynalogindia.com
 nshivkumar@dynalogindia.com

Since the last 15 years, Dynalog has served the Indian Defence through various DRDO labs. The development of various systems, sub-systems and sub-assemblies were taken up by Dynalog from DRDO. The design, development and fabrication of defence electronics include development of various types of MIL grade CPU boards, memory boards, communication boards etc.

Contribution to DRDO Projects/Programs

- Laser Warning System
Developed for land based vehicles, it will help the crew of the vehicle to identify a laser threat from any of the eight directions horizontally including vertical direction.
- Micro-controller based Servo Power Amplifier system
For controlling up to 500 W servo motors.

DYNAMATIC TECHNOLOGIES LTD

Company Name	: Dynamatic Technologies Ltd	
Contact Person	: Udayant Malhoutra	Anilkumar Katti
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Fax	: +91 80 28395823	
Email	: toby@dynamatics.net,	katti@dynamatics.net
Website	: www.dynamatics.com,	www.dynamatics.com

Dynamatic Technologies Ltd (DTL) is a vibrant and technology driven Indian organization having more than 35 years of industry experience. DTL has participated in various projects and programmes of Indian Defence right from the concept to delivery of the products. DTL has been certified and compliance with ISO-9000, AS-9100, DGAQA, CQAL, DGQA, NADCAP and CEMILAC certification. Participated in development and productionisation of ALH, LCH, Sukoi Mk-30, IJT, Hawk and Lakshya-UAV programs.

Contribution to DRDO Projects/Programs

- Hydraulic systems
Like suction delivery pumps, triple pump, steering control, break actuation, distribution mechanism and hydraulic coupling, etc., for T-72 MBT/Arjun programme
- Auxiliary Power Unit for T-72 MBT
- Kyne-Dyne simulator
- Aircraft refuelling trolleys for Kiran and Sea-Harrier aircraft
- Hydro-mechanical system for missile launching system



DYNASPEDE INTEGRATED SYSTEMS (P) LTD

Company Name	: Dynaspede Integrated Systems (P) Ltd	
Contact Person	: G Gurusurthy	
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Fax	: +91 4344 276481	
Email	: guru@dynaspede.net	
Website	: www.dynaspede.com	

Dynaspede is an ISO 9001-2000 organisation with three decades of proficiency in the design, product development and manufacturing of special systems of mechatronics nature. Dynaspede's association with DRDO began in 1998 with design, manufacture and supply of test machines. This was the beginning of an exciting journey towards providing complex solutions gaining recognition from various DRDO labs.

Contribution to DRDO Projects/Programs

- Test facility for mechanically synchronized nozzle hydraulic actuator for exhaust nozzle actuation for aero engines.
- Test facility for ASTRA
- Facility to test a range of torpedo motors
- Test facility for high speed aircraft PTO shafts
- Hydraulic motor test rigs
- Bi-directional winch



DYNOMERK CONTROLS

Company Name : DynomerK Controls
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 25821861, 25464040 Mobile: 91+ 09970156998
 Fax : +91 20 25810939
 Email : kishor_raut@dynomerK.in
 Website : www.dynomerK.co.in

DynomerK Controls, Pune founded in 1996, is one of the leading design and manufacturing industry within the country for providing total solution for all needs in automotive engine and vehicle testing requirements. DynomerK Controls was honoured with an Appreciation Award presented in the DRDO – Industry meet in Feb 2007.

Contribution to DRDO Projects/Programs

- Eddy Current Dynamometer System - For testing the contra rotating motors used in the torpedo system.
- AC/DC regenerative vehicle chassis dynamometers
- Automotive component test rigs with complete computerized data acquisition and controls software



Contra Rotating Eddy Current Dynamometer

ELECTRO CIRCUIT SYSTEMS

Company Name : Electro Circuit Systems
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Fax : +91 40 2375 4580
Email : electrockt_hyd@yahoo.com
Website : www.ecsonweb.com

Electro Circuit Systems is involved in designing and manufacturing of the following:

- Electronics Systems and Sub Systems fabrication and testing
- Printed Circuit Board design
- CAD Design
- MIL Grade PCBs
- Single Layer Rigid
- Multilayer Rigid
- Flexi Rigid
- Flexi Rigid-Flexi Rigid
- Rigid Flexi outward connector

PCB Design manufacturing and population for various Products

Contribution to DRDO Projects/Programs

Contributed towards the manufacturing and population of PCBs of Ring Laser Gyroscope.



ELECTRONICS CORPORATION OF INDIA LIMITED

Company Name	: Electronics Corporation of India Limited	
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Fax	: +91 40 2712 2398 , 2713 7978	
Email	: cbdg@ecil.co.in	
Website	: www.ecil.co.in	

Electronics Corporation of India Limited (ECIL), a wholly-owned Government of India enterprise, has evolved into a multi-product and multi-disciplinary organisation continuously developing expertise in multiple technologies, catering to the exacting requirements of a highly diversified clientele in defence, security, civil aviation and other sectors of strategic importance in addition to atomic energy sector.

Contribution to DRDO Projects/Programs

- Radio Communication Systems covering HF through Microwave range
- Communication Intelligence (COMINT) Systems
- Electronic Warfare Systems
- Active Radar Seeker
- Tracking and Mobile Earth Station Antennae
- L, S, C, X, Ku and Ka Band Earth Station Antennae
- Security Jammers
- Encryption Products
- Missile Support System and C4I Systems
- Command & Control System for Brahmos
- Multi Battery Control Systems for Trishul, Akash and Nag Missiles
- Simulators
- Sensors
- Gyros
- Actuators



ENERTECH COMNET PVT LTD

Company Name : Enertech Comnet Pvt Ltd
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 Designation : Director
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 Fax : +91 40 27260756
 Email : enertechcomnet_hyd@dataone.in

Enertech is an engineering enterprise offering integrated turnkey solutions for satellite communication systems and mobile VSAT antenna systems. The company is involved in design, manufacturing, and supply of ruggedized 1.2 m, 1.8 m, and 2.4 m mobile VSAT antenna systems in C/ExtD C/Ku Band with Antenna Controller and Beacon Tracking Receiver unit for auto pointing and tracking to the desired satellite with single button operation.

Contribution to DRDO Projects / Programs

- VSAT Antenna Systems
 - 1.2 m Mobile VSAT antenna systems with auto tracking
 - 1.8 m Mobile VSAT antenna systems with auto tracking
- Ground segment Satcom data link for Airborne Early Warning & Control System
 - 2.4 m Mobile VSAT antenna systems with auto tracking



ENTERMONDE POLYCOATERS LTD.

Company Name	: Entremonde Polycoaters Ltd	
Contact Person	: Parvin Borade	Rajesh Khetan
Designation	: GM (R&D)	Director
Address	: Plot No. 29, Street No.13, , Road 'C' MIDC, Satpur	Kilfire House, 1st Floor, C-17, Dalia Industrial Area, Off New Link Road, Opp Laxmi Indl Estate Andheri (W)
City	: Nashik – 422 007	Mumbai – 400 053
Fax	: 91 253 2362591	91 22 26732568
Email	: pborade@entremonde.com	eplnsk@dataone.in entremonde@mtnl.net.in
Website	: www.entremonde.com	www.entremonde.com

Coated Fabrics

Contribution to DRDO Projects/Programs

Entremonde poly coaters ltd. has been contributing for the last two decades as input materials for the development of various stores of tent / shelters camouflage equipments, NBC IPE's, High altitude / Glacier clothings and other life saving equipments including mountaineering equipments.

ENVIRONMENTAL MEASUREMENTS AND CONTROLS

Company Name	: Environmental Measurements and Controls	
Contact Person	: TS Sreejith	
Designation	: Managing Director	
Address	: KP Vallon Road	
City	: Kochi – 682 020	
Contact Number	: +91 484 2317939, 2317971	Mobile: 91+ 9447797793 9446367971
Email	: emconindia@gmail.com	
Website	: www.emconindia.com	

EMCON is engaged in design and development of sensors and measurement systems for acquiring information from open environment applicable to underwater, marine environmental, agricultural and other energy and environmental sciences. More than 60 different types of sensors and several of their associated instrument systems have been introduced and implemented in more than 200 prestigious research, development and survey institutes for gathering information from open environment, to make systematic monitoring and analysis of the underwater systems and natural resources, leading to their sustainable management and further development.

The sensors and measurement systems introduced from EMCON are fully indigenous. They were partially availed through NRDC of India and later improved and furthermore added with EMCON's efforts, over the years.

Contribution to DRDO Projects/Programs

- Speed and distance log - for gathering underwater data
- Underwater tension meter

EON INFOTECH LIMITED

Company Name : Eon Infotech Ltd
Contact Person : HP Singh
Designation : GM
Address : C-180, Phase 8-B, Industrial Area, Sector 74, Mohali
City : Chandigarh – 160 071
Contact Number : +91 172 5044700 Mobile: +91 9815944742
Fax : +91 172 5013501
Email : hpsingh@eoninfotech.com
Website : www.eoninfotech.com

Eon Infotech Ltd is an ISO 9001:2000 certified company, focused on defence electronics for the last decade, and working with DRDO on a dozen technology solutions to be delivered to the armed forces. A registered vendor with DRDO labs, Ordnance Factories Board, defence establishments, etc.

Contribution to DRDO Projects / Programs

Developed following systems for ship/airborne configurations:

- EW Systems
- Fire control systems



Photograph of the Products Developed for DRDO.

ESSEN ELECTRONIC SYSTEMS PVT LTD

Company Name : Essen Electronic Systems Pvt Ltd
 Contact Person : DVV Satyanarayana Raju
 Designation : Managing Director
 Address : D # 8-4-71 Ashoknagar Gajuwaka, Andhra Pradesh
 City : Visakhapatnam – 533 026
 Contact Number : +91 0891 6649769, 2756162 Mobile: +91 9849816999
 Fax : +91 891 2768860
 Email : bd@essen.org.in
 essenele@rediffmail.com
 Website : www.essen.org.in

The company is engaged in development and testing of critical electronic systems vital for effecting functioning of armaments and equipment. Received Industry Appreciation Award from DRDO for the year 2007 for our efforts in development of PBAEM Target Detection System.

Contribution to DRDO Projects / Programs

- Integrated Instrumentation & Recording System for the following Torpedoes
 - Wire Guided Torpedo
 - AET/TAL Torpedo
 - Varunastra Torpedo
 - Shakthi Torpedo
 - Takshak Torpedo
- Accessories and test equipment for PBAE Mines
- Solid state Recorder and Simulator for SSR
- Single board computers and high speed data acquisition boards
- Simulators
- Data Acquisition and Control system for processor-based Advanced Exercise Mine
- VAS (Varunastra) homing electronics for torpedo
- Low Speed Communication system for wire guided torpedoes
- Fiber optic data communication system for torpedoes
- Online Monitoring and Display System
- Universal Communication and Tracking system for AUV



EXCEL RADIO FREQUENCY (P) LTD

Company Name	:	Excel Radio Frequency Technologies (P) Ltd	
Contact Person	:	P Balarami Reddy	
Designation	:	Director	
Address	:	Prasanthi Nagar, Kukatpally	
City	:	Hyderabad – 500 072	
Contact Number	:	+91 40 23720851	Mobile: +91 9885188447
Fax	:	+91 40 23720726	
Email	:	erftpl@yahoo.com	
Website	:	www.excelrftech.com	

Excel Radio Frequency has developed Suitcase Jammer and Portable Jammer for DRDO and also worked on the development of telecomm antenna and GPS antenna. They are also developing different types of antennas for DRDO labs.

Contribution to DRDO Projects / Programs

- Suitcase Jammer and Portable Jammer
- Telecomm, antenna and GPS antenna
- RF and microwave components and systems



FIBRE AND ALLIED INDUSTRIES

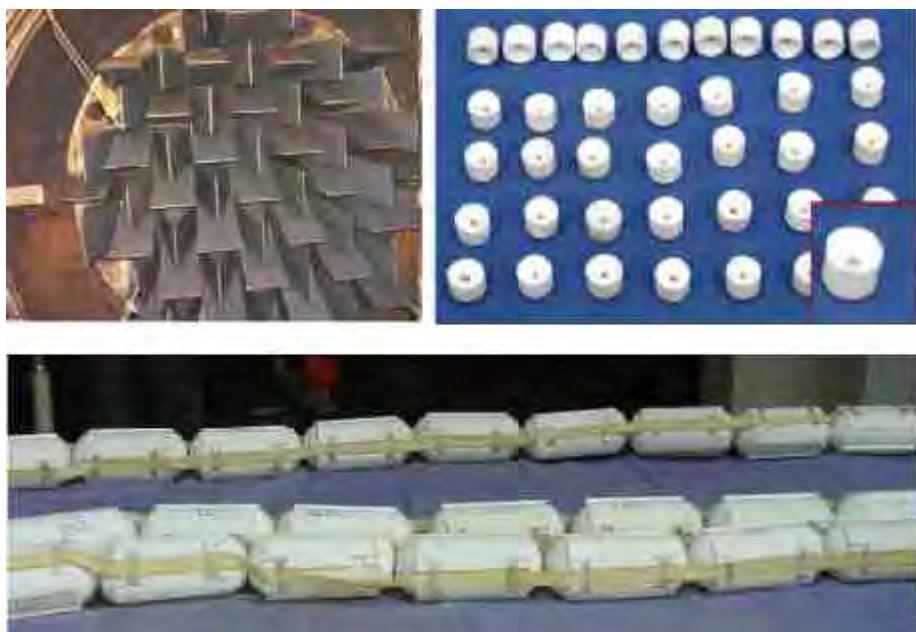
Company Name : Fibre and Allied Industries
Contact Person : Sasikumar
Designation : Proprietor
Address : Kunnampuram, Desom P.O.
City : Aluva - 683102
Mobile : +91 9447813249
Email : fibreglass.sasikumar@gmail.com

Fibre and Allied Industries is involved in designing and manufacturing of customised FRP solutions for underwater applications

- FRP triplane acoustic target
- Anechoic wedge for MATS facility
- Polyurethane solid array
- Fuel gauge float for Light Combat Aircraft
- Underwater sensor Array FRP stave
- Buoyancy module for towed sensor array

Contribution to DRDO Projects / Programs

Developed innovative solutions in terms of FRP and foam products for sonar arrays and acoustic testing



FIBRE POLY GLASS

Company Name : Fibre Poly Glass
Contact Person : P S Jagannatha Rao
Designation : Managing Partner
Address : 347/1b, 6th Cross, Bilekahalli
Btm 2nd Stage
City : Bangalore – 560 0760
Contact Number : +91 80 26786390 Mobile: +91 9844172930
Fax : +91 80 26786037 9902924805
Email : fibregp@bsnl.in

Fibre Poly Glass have proven expertise in design and development of fibre reinforced plastics and closely associated with DRDO labs

Contribution to DRDO Projects / Programs

- FRP Armour material for MBT ARJUN



FIBRO REINFORCED PLASTIC PVT LTD

Company Name : Fibro Reinforced Plastic Pvt Ltd
Contact Person : SRG Nathan
Designation : Director
Address : 48/B 4th 'N' Block, III Stage Rajajinagar
City : Bangalore – 560 010
Contact Number : +91 80 23123071 Mobile: +91 9844010185
Fax : +91 80 23121242
Email : Fibro_reinforced@vsnl.net
Website : www.frppl.com

Fibro Reinforced Plastic Pvt Ltd has developed various types of FRP Carrying Cases, Transit Cases, and Boxes for high value electronic equipment for DRDO labs

Contribution to DRDO Projects / Programs

- Transit Boxes
- FRP Carrying Cases
- Fibre reinforced plastics

FIELD GUN FACTORY

Company Name	: Field Gun Factory
Contact Person	: SK Singh
Designation	: Additional General Manager
Address	: Field Gun Factory, Kalpi Road
City	: Kanpur – 208 009
Contact Number	: +91 512 2242841, 2295100-03 (Ext. 308)
Fax	: +91 512 2219462
Email	: fgk.ofb@nic.in
Website	: fieldgunindia.gov.in

This factory has made a significant contribution in the development of 120 mm Arjun Ordnance designed by DRDO. Among the major components involved in the assembly of ordnance are the barrel, the breech ring, the breech block and fume casing. All these four items and other items also are highly critical in nature from the view point of machining and required machining from CNC route for which the necessary programming was done by the factory.

Contribution to DRDO Projects / Programs

- 120 mm Gun for MBT ARJUN
 - Breech ring
 - Breech block
 - Fume casing



FILM ELECTRONICS PVT. LTD

Company Name	: Film Electronics Pvt. Ltd	
Contact Person	: Mr Sushil Mithal	
Designation	: Director	
Address	: 192, Delhi Road, (Opp. Roadways Bus Stand) Meerut Cantt. – 450 001	
City	: Meerut	
Contact Number	: +91 121 266 1106 / 07	Mobile: +09837045390
Fax	: +91 121 266 1110	
Email	: films@vsnl.com, sm@akshatauto.com	
Website	: www.filmelectronics.in	

Film Electronics Pvt. Ltd is involved in designing and manufacturing of Hybrid Microcircuits and Miniaturised Digital Driver

Contribution to DRDO Projects/Programs

The company is manufacturer of Thick Film Hybrid Microcircuits (HMC) and Resistor Networks (RNW). It is in production since 1984. It provides customized solutions starting from R&D to production of finished product for bulk requirement. Its products find application in the field of Telecommunication, Defence, Office Automation, CATV, Automotive, Medical and Industrial Electronics. The company has state-of-art HMC manufacturing facility including Printing, Laser Trimming and Reflow Soldering. All circuits are 100% electrically tested using dedicated test station simulating the required test conditions. The quality of their HMC's is endorsed by CACT, C-DOT and ITI. This company is ISO 9001:2008 certified.

Specific Contribution made to DRDO Projects / Programs

Name of Project : **Development of Miniaturised Digital Driver for C- band Rotary Field Phase Shifter**

Specific contribution made : Batch production of the Miniaturised Digital Drivers for C- band Rotary Field Phase Shifters, based on the design details from SSPL



Miniaturised Digital Driver boards

FLOTECH ENGINEERING & TRADING SERVICES

Company Name	: Flotech Engineering & Trading Services
Contact Person	: MC Shyamsukha
Designation	: MD
Address	: 47, Sunkada Katte, Magadi Road, Bangalore –91
City	: Bangalore –91
Contact Number	: +91 80 2348 8594, 2328 1652, 367 987 27 Mobile: +9343 7987 27
Fax	: +91 80 2860 3284
Email	: info@flotech.co.in
Website	: www.flotech.co.in

Flotech Engineering & Trading Services is involved in designing and manufacturing of following items:

- Design of small gas turbine test bad facility in ADE.
- Air starting valve and air cylinder trolley (200 bars) for starting Lakshya engine.
- Launcher for ABHYS.
- Fuel storage pressure vessels
- Hoses, adapters and other fuel system components for engine fuel system.

Contribution to DRDO Projects/Programs

Flotech Engineering & Trading Services is contributing in LAKSHYA, ABHYAS , RUSTOM projects. Flotech has designed small gas turbine engine test facility in ADE for testing of LAKSHYA engine. It has supplied air cylinders trolley and Air starting valves for starting the LAKSHYA engine during trials and ground testing. Flotech is also supplying fuel system components like pneumatic hoses, adapters, fuel storage tank etc. Flotech has designed ABHYAS launcher, ABHYAS booster release mechanism, shockproof boxes for ABHAYS LRUs. It is supplying aircraft fuel filling rig for RUSTOM and LAKSHYA.

Flotech engineering and trading services is maintaining aircraft quality standards. The company has good infrastructure and facilities required for the design the system and components to meet the ADE project requirements.



Small gas turbine engine test facility

ABHYAS Launcher

Air Cylinder trolley (200 bars)

Air Starting Valve

Fuel storage tank

Refueling rig

GALAXY RUBBER PRODUCTS

Company Name	: Galaxy Rubber Products	
Contact Person	: Raghu Puranam	
Designation	: Managing Partner	
Address	: 5-1-36, RP Road	F-20/A, IDA, Phase-I, Jeedimetla
City	: Secunderabad – 500 003	Hyderabad – 500 055
Contact Number	: +91 40 23096044, 27713540	Mobile : +91 9848021983 9000800307
Fax	: +91 40 23192270	
Email	: raghupuranam@yahoo.com	

Since 1980 Galaxy Rubber Products has been developing/supplying critical customised High Precision Rubber Components made from specially formulated rubber compounds to customers' requirements, as per drawings, to closest tolerance and specifications. The company can cater to OEM requirements of one million components per month for the battery industry. The line of production includes components like 'O' rings, gaskets, seals, sheets and profiles, etc., made from various rubbers like HNBR, VITON, Flouro Silicone, Flouro Carbon, Nitrile, Neoprene, EPDM, Polyurethane, etc.

Contribution to DRDO Projects/Programs

- High precision rubber components



GEE PEE INDUSTRIES

Company Name : Gee Pee Industries
Address : A-54 G.T. Karnal Road Industrial Area
City : Delhi -110033
Contact Number : +91 11 2714 2952, 4704 6651
Fax : +91 11 2714 2953
Email : info@geepee.in, partap.malik@geepee.in

Contribution to DRDO Projects/Programs

The firm has got the technical know how of Face mask antimine universal and manufacturing it.



GENERAL OPTICS ASIA LTD

Company Name : General Optics Asia Ltd
 Contact Person : S Murli
 Designation : CMD
 Address : R.S.No.84/1,Nallavadu Road
 City : Thavalakuppam
 Contact Number : +91 413 261 9001
 Fax : +91 413 261 8755
 Email : goalpdy@vsnl.com
 Website : <http://goalpdy.com/>

General Optics (Asia) Limited (GOAL) expertise is in the manufacture of custom precision optical instruments, devices and components besides assemblies, sub assemblies, etc. They also deliver integrated solutions to their clients where they design, build and test complex opto-mechanical and opto-electronic systems (including custom test benches involving precision mechanics, precision optics, electronics and related software).

Contribution to DRDO Projects/Programs

Optical Component of Laser Gyro

Design and manufacturing of optical system, manufacturing of high precision optical components and opto-mechanical system design & fabrication

Project - ADITYA

M/s GOAL has successfully developed a 70cm aperture ZERODUR mirror based beam directing telescope system with 2 times diffraction limited performance.



GOA SHIPYARD LIMITED

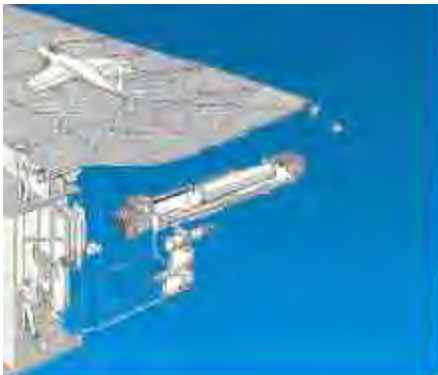
Company Name	: Goa Shipyard Limited
Contact Person	: R Adm (Retd) Vineet Bakhshi (VSM)
Designation	: Chairman and Managing Director
Address	: Vaddem House, Vasco-da-Gama
City	: Goa – 403 802
Contact Number	: +91 832 2511388
Fax	: +91 832 2513943
Email	: gsl@sancharnet.in , contactus@goashipyard.com
Website	: www.goashipyard.com

Goa Shipyard Limited (GSL), the youngest of the Defence Shipyards in the country, today stands as the success story of the changing face of Indian Defence Shipyards. The Shipyard has arisen from a modest repair yard to position itself as a leading shipbuilder on the west coast of India, capable of designing and building high technology and sophisticated ships to meet the crucial maritime needs of the country. The shipyard has an infrastructure that combines economy, scale, flexibility, and has ISO 9001 accreditation. Equipped with an in-house design capability, it has gradually expanded itself to meet the growing shipbuilding demands of the country, particularly, in its core competence area of building warships for the Indian Navy and Indian Coast Guard, efficiently meeting the customers' requirements in the field of design, construction, repair and modernization of vessels.

Contribution to DRDO Projects/Programs

- Shore Base Test Facility

Goa Shipyard Ltd is associated with DRDO in setting up of a Shore Base Training Facility, to simulate flight deck of an aircraft carrier for full fledged flight test of ship-borne aircraft as well as for training of the pilots. The test facilities will have all the systems/equipment for controlled take-off and landing of combat aircraft on an aircraft carrier. It will install commission and test the OEM supplied equipment/systems. GSL also carries out system integration with the civil works being undertaken by R&D Engineers, Pune.



Shore Base Test Facility

GODREJ & BOYCE MFG.CO. LTD

Company Name	:	Godrej & Boyce Mfg.Co. Ltd
Contact Person	:	Shri M Vaidya
Designation	:	Exec. Vice President & Business Head, Godrej Precision Systems
Address	:	Godrej Precision Systems (Plant no.8) Vikhroli
City	:	Mumbai - 400 079, India
Contact Number	:	+91 22 6796 1700/ 1800, 022 6796 2801
Fax	:	+91 22 6796 1533 / 1512
Email	:	smv@godrej.com
Website	:	www.godrej.com

Godrej & Boyce Mfg.Co. Ltd is involved in oil & gas, petrochemicals alternate energy sources like wind & defence. They are involved in launch vehicle engines, satellite propulsion systems, missiles & sub systems of air craft & other power units. They are also associated with various programmes of DRDO for motor casting & hardware development. They are also associated in the manufacturing of variants of cryogenic / semi cryogenic vikas engines for ISRO'S launch vehicles. They have been carrying out the laying of other types of coatings for the Brahmos motors. They have sufficient expertise in the process involved in rubber laying like vacuum bagging & autoclaving etc. since they have been operating these facilities at VSSC / SHAR since last 10 years.

Contribution to DRDO project /programs

Motor casting & hardware development of Brahmos & LRSAM. TOT for manufacturing of EPDM based insulation system for different class of rocket motors.

GREAVES COTTON LIMITED

Company Name	: Greaves Cotton Limited	
Contact Person	: Prakash Bhalekar	
Designation	: CEO	
Address	: Diesel Engines Unit, Chichwad	
City	: Pune – 411 019	
Contact Number	: +91 20 27462230	Mobile: +91 9924433770
Fax	: +91 20 27472276	
Email	: prakash.bhalekar@cottengreaves.com	
Website	: www.greavescotton.com	

Greaves Cotton is actively involved in various R&D projects of DRDO laboratories engaged in vehicle development.

Contribution to DRDO Projects/Programs

- Repowering of TRAK vehicle with a 400 HP engine
- Repowering of Namica vehicle with a 400 HP engine
- Cooling system for mine detector for T-72 vehicle
- Power pack for Abhay vehicle



Trak Vehicle



NAMICA Vehicle



Cooling System



Abhay

GULF OIL CORPORATION LIMITED

Company Name	:	Gulf Oil Corporation Limited
Contact Person	:	Col (Retd) Deepak Srivastava
Designation	:	Deputy General Manager - Special Products Group
Address	:	Post Bag No.1, Kukatpally, Sanathnagar (I E)
City	:	Hyderabad – 500 018
Contact Number	:	+91 40 23700774, Mobile: +91 9849798987 23810671-9
Fax	:	+91 40 23701898, 23813860
Email	:	deepaksrivastava@idlind.com, spg@idlind.com
Website	:	www.gulfoilcorp.com; www.idlind.com

Gulf Oil Corporation Limited is a multi-division, multi-location company with successful businesses in lubricants, commercial explosives, mining and infrastructure contracts and speciality chemicals catering to Indian market and to customers in the Philippines, South East Asia, the Middle East, North & East Africa and Europe. Amongst the products developed and produced for DRDO are FLSC used for severing the canopies of aircrafts for ejection by the pilot during emergency and Glycidyl Azide Polymer (GAP) which is used as a binder in rocket propellants. They have created facilities for manufacture of FLSC and GAP on a large scale. They have also created laboratory facilities to carry out synthesis of any type of energetic materials for DRDO organisations. The latest addition to their product portfolio is an indigenously developed electronic detonator, e-Det.

Contribution to DRDO Projects/Programs

- Detonators for ammunition
- Energetic materials
- Igniters
- Flexi Severance Cord system
- Signalling devices
- Pyrotech cartridges



HEAVY ALLOY PENETRATOR PROJECT

Company Name	: Heavy Alloy Penetrator Project	
Contact Person	: SK Chourasia	
Designation	: General Manager	
Address	: Heavy Alloy Penetrator Project	
City	: Trichy – 620 025	
Contact Number	: +91 431 2581801	Mobile: +91 9443138410
Fax	: +91 431 2581891	
Email	: happ.ofb@nic.in	
Website	: www.ofbindia.gov.in	

Heavy Alloy Penetrator project at Tiruchirapalli was set up as an collaborative effort between DRDO and Ordnance Factories for manufacture of anti- tank ammunition (kinetic energy projectiles) of various calibers. The ammunition is capable of penetrating a tank and destroying it by sheer force of its kinetic energy. The project was conceived in the early 1980's and the production commenced in 1988/1989.

Contribution to DRDO Projects/Programs

- FSADPS (105, 102 and 125 mm)
- Ballast Plate
- Spheres Tungsten Alloy
- Nose Plug Tungsten



105 MM FSADPS ROUND



125 MM ARDE MK-I FSADPS ROUND



Cubes for Akash Missile



6 mm TAPS for PINAKA

HI-TECH ROBOTIC SYSTEMZ LIMITED

Company Name : Hi-tech Robotic Systemz Limited
Address : Research & Development Center
Hi-Tech Robotic Systemz Ltd
Plot No. 136, Pace City -1, Sec-37, Near Hero Honda Chowk
City : Gurgaon - 122001
Contact Number : +91 124 4715300
Fax : +91 124 2806086
E Mail : marketing@hitechroboticsystemz.com
Web : www.hitechroboticsystemz.com

Hi-tech Robotic Systemz Limited has its expertise in:

- Drive-by-wire systems for unmanned ground vehicles
- Sensor interfaces for mobile robots
- Robotic software framework implementation
- System integration
- For Smart Autonomous Tracked Vehicle

Contribution to DRDO projects / Programs

- Drive-by-wire implementation for a tracked test platform
 - Implementation of mechanisms for steering and pedal feedback control through software
 - Battery power pack with charger for at least 4 hours of continuous operation
 - On-board computation unit for low-level control of platform elements, such as steering, pedal, horns, light, etc.
 - API for high-level vehicle control applications
- Integration of autonomous navigation system with teleoperated BMP vehicle
 - Implementation of the ROS software framework with the teleoperated BMP
 - Interface with the BMP teleoperation, Drive-by-Wire and sensor systems
 - Application level tuning and optimization



HINDUSTAN AERONAUTICS LIMITED

Company Name	: Hindustan Aeronautics Limited
Contact Person	: M Balaraman
Designation	: General Manager (Marketing)
Address	: Avionics Division, HAL Post
City	: Hyderabad - 500042
Contact Number	: +91 40 23878978, 040-23878281, Extn 2200
Fax	: +91 40 23878187
Website	: www.hal-india.com

HAL has a very long association with DRDL / RCI in the Integrated Guided Missile Development Programme (IGMDP). HAL's involvement in these systems was twofold.

Design, Development and Production

Production based on proven design

Contribution to DRDO Projects/Programs

HAL has developed systems for Prithvi, AKASH, Trishul, Astra, Air Defence (AD), Advanced Air defence (AAD) missiles.

Presently HAL is developing RPF for AAD, PDV and ASTRA Missile.

AKASH

HAL has taken up the development of Radio Proximity Fuze in 1997. The design of Transmitter, Receiver were given by RCI and the Digital Signal Processing card was supplied by RCI. A total of 15 sets were produced and delivered to RCI. Subsequently, DRDL has placed an order for 15 nos with improved performance. The total system was designed and developed and qualified. Presently HAL has an order of more than 500 nos of RPF.

ASTRA

Based on the experience gained in development of RPF for AKASH, HAL has developed RPF for ASTRA missile according to the design given by RCI. This is a 3 channel Tx/RX system with miniaturized RF super components. The signal processing is based on FFT, CWT and Neural Networks. The unit qualified and a production order for 40 sets is received from DRDL.

Air Defence (AD) Missile and PDV Missile

RPF is a two channel system using two different frequencies in Ku band. Design & Development of 10 sets units including one qualification unit is completed. Development of an RPF for PDV specification is under progress

RPF Target Simulator

DRFM based automated RPF target simulators are developed by HAL for all the above RPF systems.



RPF, AAD Project



RPF, Akash



HINDUSTAN OPTICALS

Company Name	:	Hindustan Opticals	
Contact Person	:	Hari Mohan	
Designation	:	Partner	
Address	:	22 Lytton Road (Subhash Road), Uttarakhand	
City	:	Dehradun – 248 001	
Contact Number	:	+91 135 2652606	Mobile: +91 9927064622
Fax	:	+91 135 2652606	
Email	:	sales@hindustanopticals.com	
Website	:	http://www.hindustanopticals.com	

Hindustan Opticals was established in 1963 mainly to assist DRDO for development of Precision Optics and optical instruments.

Contribution to DRDO Projects/Programs

- Finished lenses, prisms and windows for various day sights
- Finished lenses and prisms for night vision instruments
- Dove Tail Mount to mount telescopic sights on guns
- Opto-mechanical assemblies for various optical equipments
- Optics for Holographic Sight
- Optics used in Laser systems
- Halogen cold light sources used with fiber optic cable



Opto-mechanical Assemblies

HIGH ENERGY BATTERIES (INDIA) LTD

Company Name	: High Energy Batteries (India) Ltd	
Contact Person	: S Sridharan	
Designation	: Managing Director	
Address	: Pakkudi Road, Mathur Industrial Estate, Mathur Pudukottai Distt,	
City	: Tamil Nadu – 622 515	
Contact Number	: +91 431 2550314	Mobile: +91 9842408118
Fax	: +91 4339 250516	
Email	: info@highenergyltd.com	
Website	: www.highenergyltd.com	

The company is primarily engaged in design, development, and manufacturing of high energy batteries for use in missiles and other military equipment.

Contribution to DRDO Projects/Programs

- Special contour type primary Silver Oxide Zinc battery
- Silver Chloride Magnesium seawater activated battery
- Cuprous Chloride Magnesium seawater activated battery
- Phosphoric acid based Fuel Cell systems
- Nerve agent detector



70 V Actuator Battery



27 V Primary Battery



26 kW AgCl Mg Battery



250 kW CuCl Mg Battery



FNClI Torque Motor
Battery



28 V Pump Motor
Battery



28 V System Electronics
Battery



1 kW PAFC Stack



Nerve Agent Detector

HIGH EXPLOSIVES FACTORY

Company Name : High Explosives Factory
Contact Person : G Gnaiaiah
Designation : General Manager
Address : High Explosives Factory, Khadki,
City : Pune – 411 003
Contact Number : +91 25819566, 25819567
Fax : +91 20 25813204
E-mail : hef.ofb@nic.in

HEF is producing liquid fuels and oxidiser to propel missiles developed by DRDO.

Contribution to DRDO Projects/Programs

- G' Fuel
- Oxidiser (RFNA)
- PEK-1 (Plastic Explosive)
- TNT (Special Grade/Grade I)
- DNT (Grade I/II) in the manufacture of various types of propellants
- Hexa Nitro Stilbene



HYDERABAD METAL CRAFTS PVT LTD

Company Name : Hyderabad Metal Crafts Pvt Ltd
Contact Person : Anup Aryan
Designation : Director
Address : Plot Nos. 9/P & 10, Road No. 2, Hardware Park, Kancha Imarat,
Pahadi shareef P.O.
City : Ranga Reddy District - 500005
Mobile : 9247026660
Fax : +91 40 24071410
Email : hmc.precision@gmail.com
Website : <http://hmcpl.in/>

Hyderabad Metal Crafts Pvt Ltd is involved in following activities:

- Manufacture of Mechanical components of RLG, testing Jigs and Fixtures.
- Developed and delivered various Mechanical components of RLG, testing Jigs and Fixtures

Contribution to DRDO Projects/Programs

Contributed towards development and timely delivery of various Mechanical components of RLG, testing Jigs and Fixtures.



HYDROQUIP HYDRAULICS PVT LTD

Company Name : Hydroquip Hydraulics Pvt Ltd
Contact Person : AK Kamam
Designation : Managing Director
Address : S1, Second Floor, Casa Capitol, No 17, Wood Street
City : Bangalore – 560 025
Contact Number : +91 80 2530 5676
Fax : +91 80 2530 5677
E-Mail : hydroquiphydraulics@vsnl.com

The company has contributed in development of fuel pumps and other similar devices for use in torpedoes.

Contribution to DRDO Projects/Programs

- Servo controlled axial piston fuel pump for use in Shakthi torpedo
- Four section pump stack for use on the Shakthi torpedo. Pump houses four independent pumping sections, in a single envelope to save space.
- 225 kW Jet Fuel Starter
A hydraulic system controlled by 8 bit embedded processor



The AMAGB gear box of LCA aircraft

HYT INOVATIVE PROJECTS PVT LTD

Company Name : HYT Inovative Projects Pvt Ltd
Contact Person : Shri. Bhojraj Teli
Designation : Managing Director
Address : A -138/B-21 , H- Block , MIDC , Pimpri
City : Pune-411018
Contact Number : +91 20 4079551 / 513555
Fax : +91 20 27468280
Email : hytinovative@ymail.com
Website : flowformindia.com

HYT Inovative Projects Pvt Ltd is involved in Flow forming of rocket motor tubes @ 350/ month and got TOT for manufacturing of EPDM based insulation system, for different class of rocket motors.

Contribution to respective DRDO Projects Programmes

They are pioneers in carrying out flow forming of rocket motor tubes & are a major supplier of Pinaka motor tubes. They have association with various DRDO programmes for which they are mainly involved in the manufacturing of flow form motor cases. They are also associated in the manufacturing of metallic tubes of various dimensions for BARC. They have installed facility for silica phenolic lining of rocket motors & also established technique for laying operation. These facilities/ technologies are also required for the laying of EPDM based insulation system for different class of rocket motors.

ICOMM TELE LTD

Company Name : ICOMM Tele Ltd
 Contact Person : MS Rao
 Designation : Sr Vice President, Strategic Electronics
 Address : 40-46, Phase-1, IDA, Cherlapally,
 City : Hyderabad – 500 051
 Contact Number : +91 40 27262854 Mobile: +91 9391181702
 Fax : +91 40 27263509
 Email : raoms@icommtel.com

ICOMM's main contribution to DRDO was the Frequency Hopping Point To Multipoint Radio developed totally in-house for the Samyukta programme. Variants of this radio were subsequently delivered for Akash and Brahmos (PJ 10) programmes.

Contribution to DRDO Projects/Programs

- Frequency Hopping Point To Multipoint Radio
- Multichannel Tuner for Direction Finder in the Frequency range of 20MHz to 3000MHz.
- Exciter for Jammer in the Frequency Band of 20MHz to 500MHz.
- Synthesizer in various bands for compact Jammers.
- FPGA based Digital Processor for Digital Instantaneous frequency meter.
- Spiral antennas 0.5 to 18 GHz
- Antenna Arrays 2-18GHz
- Quadfilor Helix Antenna
- Dish Antenna

INDE ENTERPRISE

Company Name	:	Inde Enterprise	
Contact Person	:	Puneet Singhal	
Designation	:	Director - Business Development	
Address	:	745, Sector-8B	
City	:	Chandigarh – 160 009	
Contact Number	:	+91 172 3248926	Mobile: +91 9316135623
Fax	:	+91 172 2716939, 4640415	
Email	:	sales@inde.co.in	
Website	:	www.inderf.com www.indeenterprises.com	

Inde Enterprise is engaged in development of cable assemblies for phased array radars and electronic warfare systems. They have also developed fiber optic assemblies for use in harsh environment.

Contribution to DRDO Projects/Programs

- RF and microwave cable assemblies
- Harsh Environment Fiber Optic (HEFO) cable assemblies



INDESYS EQUIPMENTS PVT LIMITED

Company Name : Indesys Equipments Pvt Limited
Contact Person : Mr. Nilesh Vartak
Designation : MD
Address : 47, Industrial Estate, Nangargaon, Lonavla
City : Pune
Contact Number : +91 2114 272681
Fax : +91 2114 273465
Email : idsipl@gmail.com
Website : www.idsipl.com

Indesys Equipments Pvt Limited is involved in production of Ruggedized Instruments, NBC defence Instruments, Nuclear Food (Water) Contamination Monitor for gross gamma measurements

Contribution to DRDO Projects/Programs

Under Limited Series Production order placed by Army, the firm played key role in development & fabrication of the Nuclear Food (Water) Contamination Monitor for gross gamma measurements.



INDO NIPPON CHEMICAL CO LTD

Company Name : Indo Nippon Chemical Co Ltd
Contact Person : Mr Ashish Bhua
Designation : CMD
Address : Maker Bhavan No.2, 18, New Marine Lines
City : Mumbai- 400 020
Contact Number : +91 22 2205 1723 / 2205 1897 / 2205 1612 / 2205 1821
Fax : +91 22 2205 3488
Email : info@indo-nippon.com
Website : Indo-nippon.com

Indo-Nippon is a leading manufacturer and supplier of plasticizers to various industries. The firm makes Di Ethyl Phthalate (DEP), Tri Ethyl Citrate (TEC), Di Methyl Phthalate (DMP), Di Octyl Adipate (DOA), Di Octyl Phthalate (DOP), Di Octyl Sebacate (DOS), etc plasticizers.

Di Octyl Adipate (DOA)

Indo Nippon Chemical Co., Ltd. is a regular supplier of propellant grade Di Octyl Adipate (DOA) for DRDO labs, ISRO and Ordnance factories. DOA is used in propellant as a plasticizer to improve the low temperature mechanical properties as well as processability of the propellant.

INDUSTRIAL CARBON PVT LIMITED

Company Name : Industrial Carbon Pvt Limited
Address : 2/6 Ankleswar Rajpipla Rd. Near NH-8 Xing, ONGC post Office
City : Ankleshwar -393010
Contact Number : +91 2646 251512, 222108
Fax : +91 2646 250272
Website : www.industrialcarbtons.in

To produce carbonaceous adsorbents viz. Activated carbon in powder, granular and spherical forms.

Contribution to DRDO Projects/Programs

In the recent past TOT has been awarded to the firm for the manufacturing and supplying of Activated carbon spheres as input material for defence applications, e.g. NBC permeable suit. Presently the firm is also associated with DMSRDE in developing Activated carbon spheres with greater crushing strength. The firm has relevant test facilities and quality control with qualified staff to operate the plant. The firm has large capacity to manufacture at 10,000 kg per month scale.



INDUSTRIAL ENGINEERING INSTRUMENTS

Company Name	: Industrial Engineering Instruments (IEICOS)	
Contact Person	: R Parameswaraiyah	B P Chethan
Designation	: Chief Executive	Chief Executive
Address	: 203, 12th Main, III Phase, Peenya Industrial Area	
City	: Bangalore – 560 058	
Contact Number	: +91 80 28394520	Mobile: +91 9243473796
Fax	: +91 80 28371386	
Email	: info@ieicos.com	
Website	: www.ieicos.com	

Manufacturers of NBC respiratory face mask leak tester in association with DRDO labs. Supplied to Army through Department of Defence Production, New Delhi, approved by DGQA; to Navy (GRSE, Kolkata) approved by DQAN, New Delhi.

Contribution to DRDO Projects/Programs

- Pressure Detection Systems
- Turbine Flow Meter
- High Temperature Flow Meters
- Measurement of strain/stress at various points on Missile body during ground tests for quality evaluation



INSMART SYSTEMS

Company Name	: Insmart Systems
Contact Person	: RK Bisen
Designation	: MD
Address	: 5-234/1/1, HP Road, Moosapet, Andhra Pradesh
City	: Hyderabad – 500 018
Contact Number	: +91 40 23711778/994/379
Fax	: +91 40 23710660
E-mail	: insmartsystems@gmail.com
Website	: www.insmartssystems.in

Insmart Systems is associated with DRDO labs for the development of strategic materials and technologies for the past 15 years. Developed specific, dedicated machines and system as import substitute for high value strategic technologies.

Contribution to DRDO Projects/Programs

- Planetary Mills for nano particle generation
- Ceramic and metal injection moulding system
- Machineries for high energy (NeFeb) magnet
- Tungsten and Boron alloys, Magnetic Field Press
- High efficiency mixers, powder processing equipment
- Cold Iso-static Press



Cold iso-static Press



Metal Injection Moulding Machine

IST LIMITED

Company Name	: IST Limited	
Contact Person	: Lt Col (Retd) NL Khitha	
Designation	: General Manager	
Address	: A-23, New Office Complex Defence Colony,	
City	: New Delhi – 110 024	
Contact Number	: +91 11 24694291/92	Mobile: +91 9810516335
Fax	: +91 11 24635694	
Email	: Istgroup@sify.com	
Website	: www.istindia.com	

IST is a public limited and professionally managed company. Accredited to ISO-9000:2000, TS-16949 and ISO-14001 (Environment) with two decades of association with DRDO. Manufacturer of precision electro-mechanical assemblies and integration of electronics.

Contribution to DRDO Projects/Programs

- Safety arming mechanisms for missile warheads
- Arming and detonating mechanisms for missile warheads
- Timers for Electronic Influence Mines and Cluster Bombs
- Initiation devices
- Gimbels for housing surveillance systems



ITI LIMITED

Company Name	: ITI Limited	
Contact person	: R Srinivas Rao	
Designation	: Chief General Manager	
Address	: Ground floor, F-29, NSU Block, Doorvani Nagar	
City	: Bangalore – 560 016	
Contact Number	: +91 80 2566 0522	Mobile:+91 9441826379
Fax	: +91 80 2566 0521	
Email	: dgm_robj@itilttd.co.in	
Website	: www.itilttd-india.com	

ITI being a pioneer in the field of design, development and manufacture of communication related systems to Indian Telecom Network, associated itself with DRDO Projects since 1985 in developing similar communication systems for application in satellite and radio communication for defence. It has supplied electronic communication systems for projects like Advanced Warning and Control system. It is also involved in High Performance Computing Cluster integration and maintenance.

Contribution to DRDO Projects/Programs

- Single channel multiplexer systems to multiplex one voice and one TP channel
- 6 Channel ADM Multiplexer system with secrecy
- Satellite ground antenna terminal
- Low noise amplifiers
- Up/down converters for satellite application
- Crypto systems
- 384-Node Linux Cluster (DHRUVA)



IWAVE SYSTEMS TECHNOLOGIES PVT LTD

Company Name	: iWave Systems Technologies Pvt Ltd
Contact Person	: MA Mohamed Saliya
Designation	: Managing Director
Address	: 7/B, 29th Main, BTM Layout 2nd Stage
City	: Bangalore – 560 076
Contact Number	: +91 80 26683700, 26685200
Email	: mktg@iwavesystems.com
Website	: www.iwavesystems.com

iWave Systems Technologies is an embedded hardware and software turnkey design services company, focused on providing integrated solutions for developing innovative products and systems. Since 1999, company is working closely with DRDO by providing engineering services. Currently developing a state-of-the-art mobility solution using Intel's ATOM based e-Menlow-XL device for rugged ultra mobile tablet PC and wearable PC applications.

Contribution to DRDO Projects/Programs

- iW-Rugged-PDA

For harsh environment which assures portability

- Hardware and Software

Offered consulting services for developing Windows CE BSP for their Intel x86 platform, provided solutions of Boot Loader SW, OS design, driver development, memory architecture, timer/interrupt architecture, integration of third party devices, CETK test functions for third party device driver, sample application development, SDK and Win CE tools usage.



JD TECH

Company Name	: JD Tech	
Contact Person	: NN Rao	
Designation	: Director	
Address	: # 3-10-10, Gokhale Nagar, Ramanthapur	
City	: Hyderabad – 500 013	
Contact Number	: +91 40 27030300	Mobile: +919440114118
Fax	: +91 40 27030400	
Email	: info@jdtechnologies.in	nnrao@jdtechnologies.in
Website	: www.jdtechnologies.in	

JDT has contributed immensely towards development of indigenous products which meet/exceed the existing product specifications and with smaller footprint.

Contribution to DRDO Projects/Programs

- Miniature DC-DC converter dual output (input +15 V, output +48 V, -48 V) which has replaced three DC-DC converters in the PCB.
- Miniature DC-DC converter with high voltage output (input 15 V, output 1.5 kV)
- Multi-output DC-DC converter (input +28 V, output +15 V, -15 V, +5 V, +5 V, +18 V, -18 V) with output power >150 W within highly optimised space and heat dissipation capability.
- Automated test equipment - For inertial sensors



DC-DC Converter

JAHAGIRDAR AERO PRODUCTS

Company Name	: Jahagirdar Aero Products	
Contact Person	: Yash Jahagirdar	
Designation	: CEO	
Address	: 204/A, Station Road, Near ST Stand	
City	: Ahmednagar – 414 001	
Contact Number	: +91 241 2355023	Mobile: +91 9822054630
Fax	: +91 241 2328810	
Email	: info@Japaero.org	

Jahagirdar Aero Products has designed and developed a high altitude UAV Vihang Netra for DRDO. The airframe was designed and manufactured indigenously and all flight trials conducted including high altitude deployment trials.

Contribution to DRDO Projects/Programs

- Airframe for UAV
- Targets for Trishul and Akash
- UAV engine testing platform



JCBL LTD

Company Name	: JCBL Ltd	
Contact Person	: CJ Aneja	
Designation	: Executive Director	
Address	: Ambala Chandigarh Road, Lalru Dist., (Punjab)	
City	: Mohali – 140 501	
Contact Number	: +91 1762 308200, 308, 201	Mobile: +91 9357233777
Fax	: +91 1762 308236, 308, 212	
Email	: cj_aneja@jcbl.com	
Website	: www.jcbl.com	

Vajra vehicles are being fabricated by JCBL on LCV Eicher, Swaraj Mazda and Tata 709 chasis. Vajra vehicles are used by police and paramilitary forces, engaged in riot control duties. Bulletproof troop carrier on Tata 713 chassis has been fabricated by JCBL as troop carrier being used by the paramilitary forces for anti-terrorism, internal security and counter insurgency duties. These vehicles provide protection against small arm fire (7.62 SLR), hand grenade and suitable for retaliation from within the vehicle. These vehicles are capable of carrying 8+2 fully equipped troops. These are insulated internally to reduce heat and temperature.

Contribution to DRDO Projects/Programs

- Vajra – riot control vehicle
- Bulletproof troop carrier on Tata 713

JEET & JEET GLASS & CHEM P LTD

Company Name	:	Jeet & Jeet Glass & Chem P Ltd	
Contact Person	:	Gurvender Jit Singh	
Designation	:	Executive Officer	
Address	:	F75A, VK Industrial Area	
City	:	Jaipur – 302 013	
Contact Number	:	+91 141 2331289 Ext. 101	Mobile: +91 9929400000
Fax	:	+91 141 2262604	
Email	:	gjsingh@jeetglassindia.com	
Website	:	www.jeetglassindia.com, www.defenceproducts.com	

Jeet Glass has manufactured and installed bulletproof glass for DRDO labs which helped them in rigorous trials of missiles and tank ammunition.

Contribution to DRDO Projects/Programs

- Bulletproof glass
- Bulletproof vehicles
- Bulletproof lecterns and podiums



JOHN GALT INTERNATIONAL

Company Name	: John Galt International	Work: A-36/B-21/F-2, MIDC,
Contact Person	: RK Bhatia	Badlapur, District. Thane, 421503
Designation	: CEO	India
Address	: 1A, Maya, Plot 533	Phone: +91 0251 2691420
	: 17th Road, Khar (W)	Fax: +91 0251 2691550
City	: Mumbai 400052	
India		
Contact Number	: +91 22 2600 4962/4362	
Fax	: +91 22 26006594	
Email	: mail@johngalt.in	
Website	: www.johngalt.in	

John Galt International is involved in Fabrication, Supply and Installation of critical Systems like Aircraft Arrestor Barrier System for 20 Ton class & 40 Ton class Aircraft for Defence Applications.

Contribution to DRDO Projects/Programs

Arrestor Barrier system for 20 Ton Class Aircraft & which partners with DRDO 40 Ton class Aircraft.



KAPIL POLYMERS

Company Name	:	Kapil Polymers	
Contact Person	:	Jagdish Arora	
Designation	:	Proprietor	
Address	:	142-B, Udyog Nagar	
City	:	Kanpur – 208 022	
Contact Number	:	+91 512 2296216	Mobile: +91 9336331287
Fax	:	+91 512 2298572	
Email	:	krishnaknp@yahoo.com	

Kapil Polymers located at Kanpur have been developing rubber gloves and inner rubber liners for NBC applications.

Contribution to DRDO Projects/Programs

- NBC rubber gloves
- Inner cotton gloves

KASCO INDUSTRIES

Company Name	:	Kasco Industries	
Contact Person	:	DS Kamlapurkar	
Designation	:	Partner	
Address	:	44, Shankarshet Road	
City	:	Pune – 411 037	
Contact Number	:	+91 20 26433913	Mobile : +91 9960399190
Fax	:	+91 20 26451554	
Email	:	info@kascoindustries.com	
Website	:	www.kascoindustries.com	

Kasco Industries has, designed, developed, manufactured, and supplied Hyperbaric Oxygen chambers at 153 GH, LEH, 2121 FD Kargil and 417 FD Thangu. Hyperbaric Oxygen chamber is life saving equipment to treat pulmonary edema, frost bites, and wounds, etc., occurring at high altitudes.

Contribution to DRDO Projects/Programs

- Hyperbaric Oxygen chambers: Life saving equipment to treat pulmonary edema, frost bites, wounds, at high altitudes.
- Explosive decompression chambers: To train pilots for hypoxia and train them for mission task profiles at high altitudes.
- Explosive filling systems



Environmental Test Chambers

KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LTD

Company Name : Kerala State Electronics Development Corporation Ltd
Contact Person : C Prasannakumar
Designation : Chief General Manager
Address : Special Products Group Keltron
Equipment Complex, Karakulam
City : Trivandrum – 695 564
Contact Number : +91 472 2888771 Mobile :+91 9447890091
Fax : +91 472 2888736
Email : keccyb@md2.vsnl.net.in
Website : www.keltron.org

Keltron is involved in the design, development, manufacture and supply of electronic equipment for defence and space applications.

Contribution to DRDO Projects/Programs

- Processor based ground mine (PBGM)
- Underwater telephone system (UWT)
- UWT transducer
- XBT probe



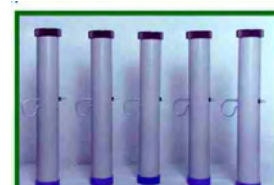
Processor Based Ground Mine



Underwater Telephone System



UWT Transducer



XBT Probe

KHANDELWAL CABLES LTD

Company Name	: Khandelwal Cables Ltd	
Contact Person	: Mahesh Khandelwal	
Designation	: CMD	
Address	: Udyog Nagar	
City	: Vrindaban – 281 121	
Contact Number	: +91 565 6531402	Mobile: 91 9837022973
Fax	: +91 565 2444379	
Email	: kclvbn@hotmail.com	
Website	: www.khandelwalcables.com	

Khandelwal Cables Ltd is producing a single cable called tether that maintains the aerostat in its position above the launch point. The tether not only anchors the aerostat in flight, but through electrical conductors embedded in the cable provides power for the electronics payload and other airborne components. The tether incorporates a metallic braid within the tether jacket to safely conduct lightning currents to ground via the mooring system. In addition, optical fibers are embedded within the tether core in order to provide a secure and reliable communication and control link with the ground support system. A bi-directional serial data link connects the payload with the ground control computer, Radar, TV, and narrow and wideband signals may be transmitted between the ground station and the aerostat via secure, dedicated optical fibers. The fiber optic link provides a secure, communications path, free of electromagnetic interference.

Contribution to DRDO Projects/Programs

- Aerostat Tethers
- Power Tethers: 2000; 3000; 9000 KGF breaking strength
- Optical Tether with ESD protection : 3000 KGF breaking strength
- Optical Tether with lightening & ESD protection : 9000 KGF breaking strength



Tethers

KHANTI PLASTIC INDUSTRIES

Company Name : Khanti Plastic Industries
Contact Person : VSN Raju
Designation : Director
Address : Plot No. 726, Subashnagar, I.D.A., Jeedimetla
City : Hyderabad- 500 055
Contact Number : +91 40 2309 6930
Fax : +91 40 2309 2848
Email : hydz_khantipl@sancharnet.in

Design & development of moulds for plastic components, Moulding of plastic components Upper & Lower Hand Guards, Pistol Grip & Butt Assembly for Multi Caliber Individual Weapon System (MCIWS)

Contribution to DRDO Projects/Programs

Design & development of moulds & moulding of plastic components mentioned above.



Upper & Lower Hand Guards



Pistol Grip



Butt Assembly

KINS ELECTRONICS

Company Name : Kins Electronics
 Contact Person : Vimal Chand Bomb
 Designation : CEO
 Address : No;[N]34, [O]57, Teachers Colony,
 Off Kamaraj Avenue, Adayar
 City: : Chennai – 600 020
 Contact Number : +91 24430554/24411601 Mobile :+91 9940042872
 Fax : +91 44 24423933
 Email : kins_bomb@vsnl.net

Kins Electronics are contributory of converting engineering perception and conceived concept of working product, keeping 4F's in mind – form, fitment, fidelity and functions, with DRDO support in indigenization, design and developing engineering electrical devices and systems, Kins supply 70 per cent of electrical assemblies and developed few first – like NBC Control Box, Driver Duplicate Panel, Annunciation Panel, IVSS, etc.

Contribution to DRDO Projects/Programs

- NBC Control Box for combat tanks
- Engine Control Junction Box for MBT Arjun tank



NBC Control Box.



KIRLOSKAR BROTHER LIMITED

Company Name	:	Kirloskar Brother Limited
Contact Person	:	Ms Ketaki
Designation	:	Manager
Address	:	"YAMUNA" Survey No. 98/3 to 7, Baner
City	:	Pune - 411045
Contact Number	:	+91 20 2721 4444
Fax	:	+91 20 2721 4436
Email	:	kblin@kbl.co.in
Website	:	www.kbl.co.in

Kirloskar Brother Limited is the Fluid management solutions provider and the largest manufacturer and exporter of centrifugal pumps and valves from India.

Contribution to DRDO projects / Program

CFD analysis and system engineering of water mist based fire suppression system (WMFSS) for submarine application.

The CFEES WMFSS design incorporates low pressure twin fluid water mist technology generating very fine water mist (volume mean diameter < 50 μm). The system has been validated in a real scale simulator (590 m³ enclosure volume) for suppression of Class-B pool, spray and flowing fires, and class-A fires as per International Maritime Organization Standard ((IMO) within 60 s using specific mist generation rate of 250 g/min-m³. The system has been accepted for induction onboard submarines for fire protection applications.

KIRLOSKAR OIL ENGINES LTD

Company Name	: Kirloskar Oil Engines Ltd	
Contact Person	: DC Vaidya	GP Kotkunde
Designation	: GM Marketing, Defence Project	Sr Manager, Marketing, Defence Project
Address	: Laxman Rao Kirloskar Road, Khadki	
City	: Pune – 411 003	
Contact Number	: +91 20 66084542, 66084075	Mobile: +91 9822027425 9822599872
Fax	: +91 20 25813208	+91 20 25810209
Email	: dcv@koel.co.in	gurudeo.kotkunde@kirloskar.com
Website	: www.kirloskar.com	

Kirloskar Oil Engines Ltd has developed various power sources (diesel generating sets) for different applications, as per DRDO's requirement for equipments such as radars, missiles and communication equipment.

Contribution to DRDO Projects/Programs

Power sources for

- Radar application
- Communication equipments
- Missile applications
- Ground support and testing



Weapon Locating Radar

KOHLI ENTERPRISES

Company Name	: Kohli Enterprises	
Contact Person	: Mukesh K Kohli	
Designation	: Proprietor	
Address	: 258, Udyog Vihar, Phase 6	
City	: Gurgaon – 122 001	
Contact Number	: +91 124 2210088	Mobile: +91 9811022857
Fax	: +91 11 26251712	
Email	: kohlienterprise@yahoo.co.in	

Kohli Enterprises (KE) is an ISO 9001:2000 manufacturing company duly registered with DRDO and various other defence establishments. KE have been associated with DRDO for the development, fabrication and supply of Parachute Systems, etc.

Contribution to DRDO Projects/Programs

- Tapes, webbings and cords, made from Nylon, Polyester, Para-Aramid
- Vectran, UHMPE (Dyneema), and other technical fibres
- UVR and WR treated tapes, webbing and ropes, for aircraft arrestor barriers
- Low elongation polyester webbing – used in MENA Upper Suspension Strap
- Fabrication of helicopter underslung cargo nets, safety and palletizing nets, baggage net, cargo lashing nets and slings
- Fabrication of parachute systems & accessories (brake parachutes for aircraft, CADS, and others)
- Fabrication of harnesses, rucksack, equipment carry bags, web equipment, etc.
- Covers – APU, DPD, nose, front undercarriage and fuselage, GPU and HST protective covers. Tie-down cables, lashing cables for MR blades, instrument flying blinds, blank PZAU, seat cushions and curtains for helicopters.

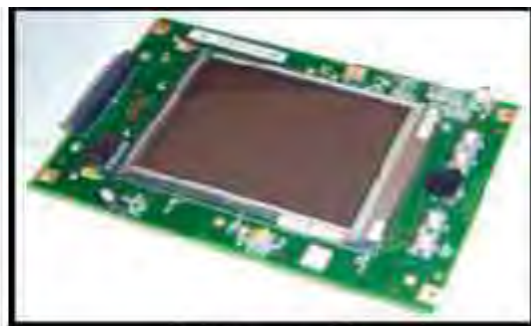
KRITIKAL SOLUTIONS PVT LTD

Company Name	: KritiKal Solutions Pvt Ltd	
Contact Person	: Jatin Sharma	
Designation	: CEO	
Address	: A-28, Ground Floor, Sector 16	
City	: Noida – 201 301	
Contact Number	: +91 120 4310387	Mobile: +91 9810952245
Fax	: +91 120 2516701	
Email	: jatin@kritikalsolutions.com	
Website	: www.kritikalsolutions.com	

Contribution to DRDO Projects/Programs

Kritical Solutions are involved in grabbing and processing video and telemetry data streamed from UAVs, synchronising the two data streams, processing images to find overlaps and using this information to make composite mosaic image.

- Mosaicing System for Ground Image Exploitation System Project
- Hardware and Software for geo-registration of UAV video
- Device driver for TI's OMAP5912 processor
- Linux kernel working on OMAP board & all peripherals audio, DSP, printer, LCD, USB, serial, flash, touch screen, Ethernet, flash operational
- Getting QT embedded UI framework working on the platform
- Making open embedded distribution work on the platform, with complete PDA application suite
- Porting CGAL (a computational geometry library) on this platform and application development for working with boundaries on digital maps



OMAP Device for T3RL

LARSEN & TOUBRO

Company Name	: Larsen & Toubro
Contact Person	: K Venkataramanan
Designation	: CEO & MD
Address	: Regd Off : L & T House, Ballard Estate, PO Box - 278
City	: Mumbai - 400 001
Contact Number	: +91 22 6752 5656, 2261 8181/82, 6705 2021, 1800 2094 545
Fax	: +91 22 6752 5858, 2262 0223
Email	: infodesk@larsentoubro.com
Website	: www.larsentoubro.com

L&T and DRDO have been working together for more than two decades. In a win-win mode the partnership grew from "Build-to-Print" to "Developing Manufacturing Technologies" to "Build-to-Specification including Design" to "Build-to-Requirement". This has resulted in an association across R&D segments like, system conceptualisation, basic technology and product development, productionisation, production of DRDO technology products, system integration, testing / evaluation, life support.

Design Areas :-

Structural; Control systems; Power systems;

Servo drives; Single board computer;

Real-Time operating system; Software development; System Integration; Environmental testing; Sub systems & System level testing; Product support after warranty.

Pinaka Launcher and Battery Command Post (BCP)

Electropneumatics, Mechanical systems

Integrated Life Support System(ILSS), Helicopter Oxygen System

Turnkey Projects, Engineered Products & Systems

- Customised Winch and handling system for towed arrays
- Development of sonar domes

Expertise in (i) heavy engineering, plant design and construction, electronics and ship building.

(ii) Process design and plant erection for petrochemicals, power, coal gasification, fertilizer etc.

L&T Heavy Engineering operates at the upper end of the technology spectrum and has been at the forefront of introducing new processes, products and materials into manufacturing sector, for over six decades. L&T's engineering capabilities are geared to design equipment as per specific customer requirements, and international codes and standards. It has pioneered the manufacturing technology, which has been achieved through indigenous technology development. L&T has core Competencies in fabrication, welding, Machining etc.

Winch and mooring system Heavy drop platform

Mechanical, Electromechanical, Opto-mechanical & Hi-end Electronics systems

ADITYA (High power CO₂ based gas dynamic laser system) & LACSMI (Laser cross section measurement & imaging)

Contribution to DRDO Projects/ Program

The firm is a corporate major with substantial outlay and interest in Defence systems. The know-how generation is 100% internal with in-house R&D capability. The firm have ambitious Strategic plan in the Defence sector with capability of production of launchers BCP in the required numbers (2 regiments per year).

L&T have successfully fabricated the winch and mooring system for 2000 cum Aerostat under project Akashdeep. After the fabrication, L&T have demonstrated the winch and mooring system in maiden flight trial of 2000 cum Aerostat. In this trial all subsystems of the Aerostat have been integrated together. 5 successful flight trial has been done using this system. They have also supported the system after the commissioning. L&T has also developed the heavy drop platform. The performance of the system was good.

The industry is development cum production partner for Integrated Life Support System for LCA, Tejas MK-II. The firm has designed and developed the Electronic Control Unit (ECU) of ILSS and has immensely contributed to the development of mechanical units of ILSS like Demand Oxygen Regulator, Anti G Valve, High pressure systems and Personal Equipment Connector. The industry is closely associated with qualification of these units for airworthiness certification. The firm is also one of the ToT holders for Helicopter Oxygen System. The industry has demonstrated its capability to produce life support equipment and will be a key partner in the development of such systems in future.

Developed (i) winches and handling systems for active cum passive towed array sonar systems, and (ii) sonar domes for submarine sonars.

Selected as Lead system integrator for the development of Land based prototype for Air Independent Propulsion.

M/s Larsen & tubro has successfully developed dual axis gyro stabilised gimbal platform assembly to in-house large aperture telescope, laser range finder and CCD camera for ADITYA project. The firm has also developed beam directing and command control electronics unit for LACSMI project

- **Heavy Air Drop Platform**

L&T has developed and supplied Heavy Air Drop Platforms for DRDO, for the IL-76 aircraft. The drop platform is a high strength aircraft grade Al alloy rectangular frame structure. Applications include air dropping of heavy equipment like vehicles, weapons and supplies at remote locations, from the IL-76 aircraft during combat operations.

- **Feed Ejection System (FES) for ICV Abhay**

L&T has developed a technology demonstrator and two engineering prototypes of a FES for ICV Abhay turret. The system is designed for the 40 mm L70 weapon, which, in an inverted position forms the main weapon of ICV Abhay. The system has been successfully integrated in the ICV Abhay platform.

- **Winch and Mooring System for 2000 m³ Aerostat**

L&T is working to design and develop a Winch & Mooring System for a 2000 m³ Aerostat. The system is designed for docking and deploying the Aerostat, and facilitates translocation in a collapsed condition between pre-defined deployment sites.

- **Sarvatra Bridging System** (Classical DRDO – Industry Dev Partner – Production by DPSU Model)

Sarvatra Bridging system program was initiated as a concurrent design and engineering program by DRDO Labs with five industry development partners.

System integration was accomplished by L&T as the major industry partner having built the bridge structure and launching mechanism by integrating support piers, hydraulics and controls harnesses coming from Oscar and Dantel (two small scale partners). BEML supplied customised Tatra vehicles with additional cabin for operation of the bridging system at the rear of the vehicle. Post-user acceptance trials, five sets of bridging systems were ordered by DRDO as limited series production order. This was placed on BEML as prime contractor with L&T, Dantel and Oscar as subcontractors for their respective work share as per the development project.

- **Bridge Layer Tank T-72**

Bridge layer tank is built on T-72 tank modified for the BLT purpose. BLT 72 was developed in association with DRDO. Post development eight such systems have been delivered to R&D (Engrs), Pune.

- **Modular Bridging System**

This is a mechanically launched system used for bridging gaps in a single span up to 46 m. It has a capability for MLC-70 class for a span up to 40 m and for MLC-40 class for a span of 46 m. The modular bridging system consists of launching system and bridging system with bridge modules, launching nose modules, bank seat beams and end ramps. The Launching System consists of Tatra 8x8 chassis vehicle, launching mechanism, and handling device.

- **Short Span Bridging System – 5 m**

- **Short Span Bridging System – 10 m**

- **Mobile Hydro Pneumatic Launcher**

Mobile hydro-pneumatic launcher (MHPL) is a specialised and very sophisticated launch system mounted on Tatra vehicle, and is used to launch Remotely Piloted Vehicle (RPV) weighing 380 kg at a terminal velocity of 45 m/sec.

- **Rohini-Revathi (DRDO's Public-Private Partnership Model)**

This twin radar program is a shining example of successful Public-Private Partnership model, for quick upgradation and optimisation of an elemental technology demonstrator of a S-band Radar (CAR - Central Acquisition Radar) evolved by DRDO jointly working with a foreign technology partner. The technology demonstrator, developed over a period of three years, needed to be sizably upgraded for enhanced performance, customized for Air Force as well as Naval use concurrently, optimised and lightened for logistics reasons. DRDO took a bold step to evolve the PPP model based on work-share evolved on specific strengths of the partners. BEL and L&T were chosen to be the development cum production partners and the relationship was formalised through a tripartite MOU.

- **Hallmark of Rohini-Revathi PPP Program**

- This is the first program for DRDO, BEL, and L&T pooling their strengths and capabilities under a tripartite MOU and working seamlessly towards realising the system based on defined work share.
- Incremental development and customisation of a platform technology realised as a technology demonstrator could thus be catapulted in to a fast track program to accomplish development to production cycle just about 4.5 years and may be a benchmark by itself for systems of this class.

- o The project was kept on track with a tight monitoring structure in the form of high level Steer committees of Air Force as well as by Navy.
- o It is an example of unprecedented show of confidence by the User in concurrently placing limited serial production orders, while trials of D&E models were yet to begin.
- **Stabilised Platform for Revathi Naval 3D Surveillance Radar**
 Naval Radar 'Revathi' operating in S-band frequency is mounted on a stabilized platform mounted on top of the mast of a naval ship. The stabilisation technology developed for Dhanush program was effectively customised for Revathi Stabiliser through evolution of a weight-saving half-gimbal configuration, capable of dealing with much larger roll and pitch conditions (up to sea state 6).
- **Mobile Platform for Rohini 3D Surveillance Radar**
 Rohini Radar is a mobile system, mounted on a mobile platform for land operations. This platform has been developed to be vehicle independent during operations for maintenance friendliness and specific operational advantages. The radar, mounted on a mobile platform, is designed to play the role of medium range surveillance radar.
- **Missile Programs: Launch Systems**
 - Dhanush Program (DRDO–User–Industry Partnership Model)
 - Akash Program
 - Trishul Program : Wheeled Version
 - Universal Launcher
 - BRAHMOS Program
- **Pinaka Program (DRDO- Multiple Development Partner Model)**

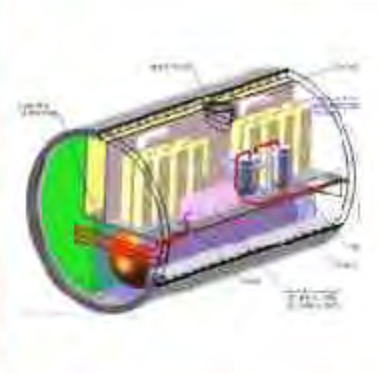


L&T Launcher



L&T BCP





Dual axis gyro stabilized gimbal platform assembly



Beam directing electronic unit



Command control electronics unit



Drop Platform



Feed Ejection System



Winch & Mooring System



Sarvata Bridging System



Bridge Layer Tank



Modular Bridging System



Short Span Bridging System - 5 m



Short Span Bridging System - 10 m



Mobile Hydro-Pneumatic Launcher



Revathi



Rohini Radar

LEE HYDRAULICS & FASTENERS (P) LTD

Company Name : Lee Hydraulics & Fasteners (P) Ltd
Contact Person : Venkatesh
Designation : Managing Director
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Colony, Ramanthapur
City : Hyderabad – 500 013
Contact Number : +91 40 27038070 Mobile: +91 9391041887
Fax : +91 40 27038070
Email : info@leefasteners.in
Website : www.leefasteners.in

LHF is one of the leading manufacturer of aerospace fasteners for DRDO. LHF has successfully executed various orders in Titanium & other Aerospace materials for DRDO.

Contribution to DRDO Projects/Programs

- Titanium Columbium Alloy (C-103) EN24-ESR Grade
- Fasteners

LEGEND TECHNOLOGIES (I) PVT LTD

Company Name	: Legend Technologies (I) Pvt Ltd	
Contact Person	: E Ranga Reddy	
Designation	: Chairman & Managing Director	
Address	: #26/A, Doddenakundi Indl Area, Mahadevapura	
City	: Bangalore – 560 048	
Contact Number	: +91 80 28525500	Mobile:+91 9844009714
Fax	: +91 80 28525501	
Email	: reddy@legendtechnologies.co.in	
Website	: www.legendtechnologies.co.in	

Legend Technology is associated with many DRDO programmes and notable among them are missiles and combat aircraft (Tejas). The company has been supplying critical component such as slip rings, etc., on turnkey basis to these programmes.

Contribution to DRDO Projects/Programs

- Front Fuselage Assembly Jig (LCA)
- Tank slip rings
- Slip rings - missiles



LEONARDO ENGINEERING PVT LTD

Company name : Leonardo Engineering Pvt Ltd
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Peenya Industrial Estate
City : Bangalore – 560 058
Contact Number : +91 80 28363201 Mobile: +91 9845208614
Fax : +91 80 28363293
E-mail : leonardo@vsnl.com & leonardo@airtelmail.in

The company has been actively engaged in developing various pressure test facilities in association with DRDO labs and also supplying the same to them augmenting their R&D efforts.

Contribution to DRDO Projects/Programs

- 15,000 PSI cyclic pressure test facility
- Upgradation of horizontal test facility
- Alternator test rig
- Ground air cooling trolley



LIBRA ENGINEERING WORKS

Company name : Libra Engineering Works
 Contact Person : Jacob Raju
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 City : Kochi – 682 024
 Contact Number : +91 484 2806008 Mobile: +91 9846036613
 Fax : +91 484 2806008
 Email : info@ttcadcam.com

Libra engineering works established in 1977, designs and manufactures rubber and plastic moulds, press tools and other precision machined engineering components. Started working for DRDO labs from 1980 till date.

Contribution to the DRDO Projects/Programs

- Rubber moulds
- Plastic moulds
- Tools and fixtures
- Ferrous and non-ferrous metals
- Special purpose machines



LIGHT GUIDE OPTICS PVT LTD

Company Name	: Light Guide Optics Pvt Ltd	
Contact Person	: Siddhartha Dhawale	
Designation	: Executive Director	
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City	: Indore – 452 009	
Contact Number	: +91 731 2422 257	Mobile:+91 930 210 3019
Fax	: +91 731 2422 257	
Email	: mail@lightguide.org	
Website	: www.lightguide.org	www.lightguide.co.in

Light Guide Optics Pvt Ltd is an ISO 9001:2000 company, established as a centre for development of opto-mechanical systems. It is well equipped to design and manufacture high precision conventional and non-conventional optics as small as 2 mm to as large as 1200 mm. It can polish various materials like optical glasses, silicon carbide, crystals and metals. The collaborative efforts have resulted into production of world-class instruments like Radiation Resistant Macroscopes, periscope, and stereovision instruments for Nuclear Interferometers, beam expanders, telescopes, special purpose microscopes, etc. Regularly makes optical components and opto-mechanical hardware for research and development.

Contribution to DRDO Projects/Programs

- 500 mm diameter Gold coated metal mirror for high power CO₂ laser application



LNT ELECTRONICS

Company Name	: LNT Electronics	
Contact Person	: E Murali	
Designation	: President	
Address	: A-27, Huda Colony,	
City	: Hyderabad – 500 035	
Contact Number	: +91 40 24046517	Mobile:+91 9849025200
Fax	: +91 40 24051637	
Email	: Intelectronics@rediffmail.com	
Website	: www.Intelectronics.com	

LNT Electronics is primarily a military products oriented company. LNT is the only Indian company which has supplied equipment to DRDO projects for all the three Services' applications. Major contributions are in the field of EW Transmitter power supplies for Army, Air Force, and Navy. In addition, LNT has provided assistance to the customers in integrating TWTs with the power supplies. Also, Power Combined TWT Systems were developed for specific military applications.

Contribution to DRDO Projects/Programs

- TWT Power Supplies
- High Speed Modulators
- Transmitter systems (CW and pulsed)



Typical TWT Power Supply for Navy



Typical Transmitter System for Missile applications



Typical TWT Power Supply for Air Force



Typical TWT Power Supply for Army

MACMET TECHNOLOGIES PRIVATE LTD

Company Name	: Macmet Technologies Private Ltd	
Contact Person	: HJ Kamath	
Designation	: President	
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City	: Bangalore – 560 019	
Contact Number	: +91 80 26256000	Mobile: +91 9845022146
Fax	: +91 80 26604111	
Email	: hjkamath@cae.com	
Website	: www.macmet-technologies.com	

Macmet Technologies have proven expertise in developing simulators for training of gunners of main battle tank Arjun. The company, in collaboration with DRDO, is also developing anti-tank/weapon simulators for classroom training of operator/commander. Besides, the company is developing software for modeling and creating simulation environment for evaluation of tactics, decision process and performance of constituents of anti-ship/submarine warfare.

Contribution to DRDO Projects/Programs

- Gunnery Training Simulators – for MBT Arjun
- Agastya Gunnery Procedure Trainer
- System Assessment Software

It's a comprehensive System Assessment Software (SAS) tool to simulate an anti-submarine warfare scenario, and to evaluate the effectiveness of torpedo attack against surface ships and submarines equipped with all types of countermeasures.

- Tank driver, gunner & commander Trainer – for MBT Arjun
- Anti-tank Weapon Simulator – for NAG



MAESTROS MEDILINE SYSTEMS LIMITED

Company Name	:	Maestros Mediline Systems Limited
Contact Person	:	Vinayak Deshpande
Designation	:	Business Head (Telemedicine)
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City	:	Navi Mumbai-400710
Contact Number	:	+91 22 4119 32000
Fax	:	+91 022 4119 3130/2762 2153
Website	:	WWW.maestros.net/WWW.medi-line.com

Contribution to DRDO Projects/Programs

- Telemedicine System
- Portable Handheld Vital Parameter Monitor (PPVPM)

Maestros Mediline Pvt Ltd was identified as the development partner for developing this customized handheld vital parameter monitoring device for the Armed forces for operation in High altitude. The firm has been able to implement the design provided by DEBEL and evolve a product that is smart, compact and handheld. The device has been developed by Maestros Mediline Pvt , Ltd using some of the state-of-the-art technologies ASIC based ECG acquisition system, miniaturized design, onboard display that can work in extreme environments and ruggedized design. Presently the PPVPM has undergone extensive field trials at higher altitude regions. The unit has undergone transfer of technology to the same firm as they have a well-established manufacturing line with required ISO certifications. Presently the company is in the process of delivering 145 numbers to northern command and is in co-ordination with us in the development and improvement of the new version of PPVPM catering to specific requirements from services.



Biomedical Data Acquisition System (BIODAS) for Telemedicine System



Portable Handheld Vital Parameter Monitor (PPVPM)

MAFFICK INSTRUMENTS

Company Name : Maffick Instruments
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Designation : CEO
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City : Ambala – 134 003
Contact Number : +91 171 2521380 Mobile: +91 9416020888
Fax : +91 171 2520011
Email : Vipansarin@yahoo.com
Website : www.maffickinstruments.com

Maffick Instruments (MI) is involved in DRDO projects by providing OEM support to labs and is an alliance member of National Instruments – a world leader in real time and PC-based data acquisition and measurement products. MI is developing snow parameters measuring instruments.

Contribution to DRDO Projects/Programs

- Tube type velocity sensor – for measuring velocity of snow particles during avalanche
- Data Acquisition System – for high speed acquisition of snow parameters



MAHINDRA GROUP OF COMPANIES

Company Name	:	Mahindra Group of Companies
Contact Person	:	Anand Mahindra
Designation	:	Chairman & Managing Director, Mahindra & Mahindra Group
Address	:	Mahindra Towers, Dr. G M Bhosale Marg, P K Kurne Chowk, Worli
City	:	Mumbai - 400 018
Contact Number	:	+91 22 24931441
Website	:	www.mahindra.com

Mahindra Group of Companies has a Defence Division which has three verticals i.e. Naval Systems, Vehicle up-Armouring & Land Defence Systems.

Contribution to DRDO Projects/Programs

- Development of structures for underwater vehicles and weapons
- Light Bullet Proof Armoured Vehicles
- Processor-based Ground Mine
- Torpedo Decoy Launcher
- 120MM / 125MM FSAPDS



AJV ExO structure



Body of advanced torpedoes



FSAPDS Shot

MANJIRA MACHINE BUILDERS PVT LTD

Company Name	: Manjira Machine Builders Pvt Ltd	
Contact Person	: VN Sai Prakash	
Designation	: Managing Director	
Address	: 307 & 308, Bhanu Enclave,	
City	: Hyderabad – 500 038	
Contact Number	: +91 40 23701172	
	23702100/1 /2	Mobile:+91 9323210142
Fax	: +91 40 23710744	
Email	: hyd2_manjira@bsnl.in,	manjiramachine@yahoo.co.in
Website	: www.manjira.org	

Manjira Machine Builders Pvt Ltd, a leading name in India in the field of aerospace quality ferrous and non ferrous forgings, defence equipments ground handling systems was established in the year 1981. Manjira has supplied various types of aerospace equipment to DRDO labs and its associate organisations and ISRO, Sriharikota, Tirunelveli and Ahmedabad, like missile sections, gas generators, control surface unfolding mechanisms, relay boxes, CP winding fixtures, lifting beams, pressure vessels, SS bowls for Russian mixers, test rig for axial and external load testing, wire tunnel components, DS#1 single component test fixtures, CG mass measurement fixtures, static test stands, electro hydraulic winches, Agni hardware, feed horns, Agni grain fixtures, etc.

Contribution to DRDO Projects/Programs

The company has developed following equipment and systems and supplied to DRDO labs:

- Toroidal air bottles
- Battery shells – for underground torpedos
- Shock absorption systems



Retro Motor Container

Toroidal Air Botte

Electronic Battery Shell



Article Tilting & CG Mass Measurement Fixture

MAHINDRA SATYAM

Company Name : Mahindra Satyam
Contact Person : Vineet Nayyar
Designation : Chairman
Address : SSI Building -2nd Floor, Hitec City, Madhapur
City : Hyderabad- 500 081
Website : www.mahindrasatyam.com

Mahindra Satyam is one of the leading providers of engineering solutions and information and communications technology supporting the global aerospace and defense sector.

Contribution to DRDO Projects/Programs

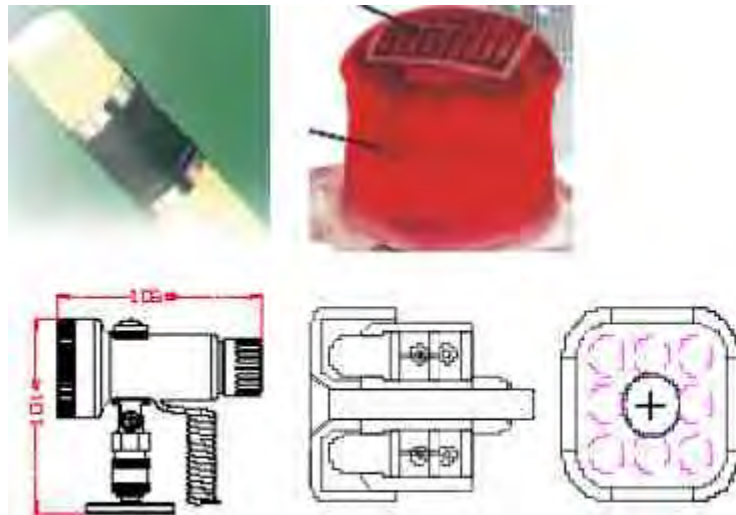
Development of integration middleware and development of large scale applications software for CAIR as per IEEE 12207 process

MARS AUTO PVT LTD

Company Name : Mars Auto Pvt Ltd
Contact Person : MC Agarwal Saurabh Agarwal
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Address : 92-B, Dadanagar
City : Kanpur – 208 022
Contact Number : +91 512 3293250
Fax : +91 512 2295597
Email : marskanpur@hotmail.com

Contribution to DRDO Projects/Programs

- Lightning insulator (peek) fuel line pipes for Tejas
- Top mount warning light (LED based)
- Wander (Utility) light for Tejas
- Cockpit panel flood light for Tejas



MARUDHAR PAINTS AND POLYMERS

Company Name : Marudhar Paints and polymers
Address : G-800-801, Industrial Area, Phase IV, Boranada, Jodhpur
City : Rajasthan
Contact Number : +91 02931 281114
Fax : +91 02931 281114
Email : info@marudharpolymers.co.in
Website : marudharpolymers.co.in

Marudhar Paints and polymers is engaged in development of paints and coatings for specialty applications and also engaged in development and bulk scale production of :

- (i) CAM & IRR paints
- (ii) Radar absorbing paint RAP-Mk-I paint
- (iii) Antistatic and radio transparent paint

Contributions to DRDO projects / programs

The industry has been actively involved in development of formulations of CAM & IRR paints in standard military shades; Radar Absorbing Paint Rap-Mk-I; antistatic and radio transparent paint.



MASPACK LIMITED

Company Name	: Maspack Limited	
Contact Person	: Ajit Ramavarma	
Designation	: CMD	
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Fax	: +91 40 27019316	
Email	: maspackhyd@gmail.com	
Website	: www.maspackindia.com	

During the year 1983, MAS was approached by DRDO to design, develop, manufacture and supply the total plant and machinery on 'Turnkey' for the production of Combustible Cartridge Cases (CCC). MAS developed the entire plant and machinery for the production of CCC for different calibre guns, as per the needs of the Indian Army by 1988. From 1989 onwards MAS has supplied tens of millions of different variants of CCC to the Ministry of Defence and still counting.

Contribution to DRDO Projects/Programs

Developed the following products

- 125 mm CCC (steel core)
- 125 mm CCC (soft core)
- 120 mm FSAPDS
- 120 mm HESH
- NC Coated disc-I & II
- 125 mm MK-II
- Resin based CCC for 125 mm
- Resin based CEC for 120 mm FSAPDS/HESH
- MCC for 155 mm BMCS
- MCC for 130 mm
- MCC for 105 mm
- Augmenting Charge Container



MECH SEALS INDUSTRIES

Company Name	: Mech Seals Industries	
Contact Person	: AA Dawa	
Designation	: Partner	
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City	: Mumbai – 400 063	
Contact Number	: +91 22 61621340	Mobile : +91 9821414483
Fax	: +91 22 29271515	
Email	: mechseals@rediffmail.com	
Website	: www.mechseals.in	

Mech Seals Industries are manufacturer and exporter of mechanical seals. Since 1976, they are engaged in design, manufacture and installation of mechanical seals for Torpedo. It has constantly endeavoured to technically upgrade the sealing technology.

Contribution to DRDO Projects/Programs

- Mechanical seals



MECHTRON ENGINEERS

Company Name : Mechtron Engineers
Contact Person : Mr. Shrikant Kamalapurkar
Designation : Proprietor
Address : 37, Shree Dasttarey, Sahawas Society Karve nagar
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Wadgaon Dhayari, Pune-411041
Contact Number : +91 020 2544 3382 (Office) Mobile : +91 9373338415
Fax : +91 020 2545 0739

Mechtron Engineers is involved in manufacturing of special purpose machines, material Handling Equipments, electric & Pneumatic control panels, PLC based process Automation Solutions, etc.

Contribution to DRDO projects/Programs

- i. Mandrel and casting fixtures
- ii. Design and Fabrication of casting bell
- iii. Water jacketed ovens
- iv. Vacuum oven for explosive drying
- v. Installation of feed system for toxic chemicals at project site Nagpur
- vi. Automation of Incineration plant
- vii. FRP enclosure for under water application
- viii. Customized machine automation e.g. Vacuum degassing, Punching Machine,
- ix. Vacuum transfer system for toxic chemicals

MERIDIAN INFLATABLES PVT LTD

Company Name : Meridian Inflatables Pvt Ltd
 Contact Person : Lt Col (Retd) Ajay Oka
 Designation : CEO
 Address : 103 Marwah Estate, Off Saki Vihar Road,
 Saki Naka Andheri East
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 Contact Number : +91 22 28570369, 28575100, Mobile:+91 9820292032
 40159353
 Fax : +91 22 28572927
 Email : Meridian_pvt@vsnl.net
 Website : www.meridianinflatables.com

The company has been associated with DRDO for the last 20 years in the fabrication of Aerostat balloons of sizes from 10 to 2000 m³. Developed helicopter rescue floats to achieve indigenization of the product.

Contribution to DRDO Projects/Programs

- Aerostat balloons
- Inflatable PMS/PMP Bridge to serve as decoy
- Inflatable decoy

Developed an inflatable decoy of the Prithvi missile system to include the missile and the vehicle with the launching mechanism.



MERU PRECISION INDUSTRIES

Company Name : Meru Precision Industries
Contact Person : HS Shivaswamy
Designation : Chief Executive
Address : # 1706, Rajkumar Road, Prakashnagar
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Contact Number : +91 80 23324085 Mobile:+91 9986465377
Fax : +91 80 2352559
Email : merushiv@yahoo.com
Website : www.meruindia.com

Meru Precision Industries has been involved in the development of several parts, sub-assembly/ies for the pilotless aircraft Nishant.

Contribution to DRDO Projects/Programs

- Developed Mechanical boxes for various electronic packages - SSM package, pay load package, RF package, IRS package, SEU package and IAP package
- Wedge lock, PDRM components, main link aileron assembly, etc
- MTRDC
- Sub assys to Dynamatic Aerospace for Lakshya Project
- Toolings to Heavy Vehicles Factory for the Battle Tank Project
- EMLA (Actuator)/roller screw for the Missile Project

METAL POWDER COMPANY LIMITED

Company Name	:	Metal Powder Company Limited
Contact Person	:	Mr. Guna Singh
Designation	:	Managing Director
Address	:	Maravankulam, Thirumangalam
City	:	Madurai- 625 706, Tamilnadu
Contact Number	:	+91 4549 281995 (4 lines) & 280599 +91 4549 329995 to 329998
Fax	:	+91 4549 280689
Email	:	info@mepco.co.in
Website	:	www.mepco.co.in

The Metal Powder Company Limited (MEPCO), commenced its operation in 1961, is one of the leading manufacturers of Non - Ferrous Metal Powders and pastes globally. The firm produces powders of aluminium, copper, bismuth, etc.

Contribution to DRDO Projects/Programs

- Supply of aluminium powder of various sizes for DRDO labs.

METALTECH MOTOR BODIES PVT LTD

Company Name : Metaltech Motor Bodies Pvt Ltd
Contact Person : Col (Retd) SW Thatte
Designation : Vice President
Address : # 68, Sector 3, IMT Manesar
City : Gurgaon – 122 006
Contact Number : +91 124 4369272 Mobile:+91 9868239166
Fax : +91 124 2290836
Email : swthatte@metaltechmotors.com
Website : www.metaltechmotors.com

Contribution to DRDO Projects/Programs

- Riot Control Vehicle - Vajra MK III





MICRO PRECISION

Company Name : Micro Precision
Contact Person : D Magesh
Designation : President
Address : Plot No. 236 & 237, Industrial Complex
Nehru Nagar, Perungudi, Post
City : Chennai – 600 096
Contact Number : +91 44 24540237, 32971498 Mobile: +91 9381025646
Fax : +91 44 24540237
Email : dathathrays@yahoo.com

Contribution to DRDO Projects/Programs

The company has developed and supplied the following

- Hatches for commander and loader made from armoured steel
- Steering, parking and brake assembly
- Turret basket
- Co-axial gun mount
- SAcam bracket
- Gun mantlet
- Micro Precision has developed and supplied high pressure online fittings for Ship Building Centre (SBC), Visakhapatnam against rate contract for the ongoing project under development at SBC. These fittings were manufactured from special grade Nickel.

MICROGENESIS TECHSOFT PVT LIMITED

Company Name	: Microgenesis Techsoft Pvt Limited	
Contact Person	: Dhananjay	
Designation	: Branch Manager	
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Contact Number	: +91 40 65900111	Mobile: +919866134665
Fax	: +91 40 66481888	
Email	: dhananjay@mgtechsoft.com	
Website	: www.mgtechsoft.com	

Microgenesis is a software development company and is helping the different software groups to implement version control tool in their software development process, which is a vital activity in the SDLC.

Contribution to DRDO Projects/Programs

- SQAD, OBCD and K15
Automated testing tool is used and completed the testing
- ABACUS processor based target board
MicroGenesis customized the testing tool to test the application dynamically on the target board.
- DSP based target board and OBC based target board
MicroGenesis customized the testing tool to test the application dynamically on the target board.
- PJ-10
Ground control system to be tested using automated testing tool.

MINDTREE LIMITED

Company Name	: MindTree Limited	
Contact Person	: Keshav Ram Dasu	
Designation	: Vice President	
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City	: Bangalore – 560 059	
Contact Number	: +91 80 26265844	Mobile: +91 9980026257
Email	: Sridhar_perapa@mindtree.com	
Website	: www.mindtree.com	

MindTree is a global IT and R&D services company co-headquartered in the US and India. With a passion for customer satisfaction, MindTree partners with its clients to create a transparent, value-based relationship. They domain experts deliver business-enabling solutions by leveraging consulting led, framework-based and IP-driven approach. The has its cor competency in Embedded Systems.

Contribution to DRDO Projects/Programs

- Video tracking system consisting of VME Master controller
Based on power PC and a high processing capability DSP board with 3 multi-core processors doing the video capture, analysis and tracking algorithms have been developed.
- Multiprocessor System Using Cradle CT3616
- Multiprocessor Card based on CT3616 with display Interface
- Real Time Image Stitching System



MISHRA DHATU NIGAM LIMITED

Company Name	: Mishra Dhatu Nigam Limited
Contact Person	: M Narayana Rao
Designation	: Chairman & Managing Director
Address	: Kanchanbagh Post
City	: Hyderabad – 500 058
Contact Number	: +91 40 24340201
Fax	: +91 40 24340214
Email	: cmd.midhani@ap.nic.in
Website	: www.midhani.com

Mishra Dhatu Nigam Limited (MIDHANI) is one of the most modern and integrated metallurgical manufacturing the widest range of special metals and alloys under one roof. MIDHANI special alloys meet requirements of Space, Nuclear, Power, Defence, Aeronautics, Electronics, Telecommunications, Petrochemical and General Engineering industries. Over the years, Midhani has catered to the requirements of DRDO for many high performance materials. A wide range of special alloys - many of them being tailor made to DRDO's specific needs were developed and supplied. Special steels and non-ferrous alloys of Titanium and magnesium have been produced and supplied by Midhani for use in the production of various missiles of integrated guided missile development programme. Special steels include maraging steels, high strength low alloy steels and special stainless steels.

Contribution to DRDO Projects/Programs

- **Maraging Steels: MDN-250 Maraging Steel Flow Formed Tubes for ASTRA Project.**

These steels have good hot and cold workability, fabricability, machinability and are easily heat treated without problems of distortion and cracking. In addition, they possess very high specific strength comparable to titanium alloys. Maraging steels make them ideally suited for aerospace applications like missile casings hardware and are supplied in different mill forms – forged/rolled rings, bars, hot/cold rolled sheets, strips, extruded/flow formed tubes and filler wires. MDN has been supplying these steels to Defence organizations.

- **High strength low alloy steels: AISI 4340, 30 KhGSA, 30 KhRA and 15CDV6**

Midhani has contributed to indigenization of several low alloy steels for the missile programme of DRDO. The steels are characterized by adequate hardenability, good workability and fabricability and can achieve remarkable strength-toughness combination after heat treatment.

- **Soft Magnetic and Controlled Expansion alloys: Soft Mag 48 B**

Midhani has supplied Soft Mag 48 B, a soft magnetic alloy with high saturation flux density and medium permeability. This alloy is used in the fabrication of control actuation components. Midhani supplied controlled expansion alloys such as Fermi 36 which has a low thermal expansion coefficient, material is used as Gyro components.

MDN-250 Maraging Steel Flow Formed Tubes for ASTRA Project



MISTRAL SOLUTIONS PVT LTD

Company Name	:	Mistral Solutions Pvt Ltd
Address	:	No.60, 'Adarsh Regent', 100 Ft. Ring Road
City	:	Bangalore - 560071
Contact Number	:	+91 80 3091 2600
Fax	:	+91 80 2535 6444
Email	:	info@mistralsolutions.com
Website	:	www.mistralsolutions.com

Mistral Solutions Pvt Ltd is engaged in developing systems and solutions for data acquisition, telemetry, signal processing and data processing.

Contribution to DRDO Projects / Programs

Developed solutions for Front-end Processing Systems in various SONAR applications. Development of Electronics Cards (hardware & software)

- Preamplifier, ADC, DAC and Controller cards for Front-End Processing System
- High Frequency Front-End Processing system
- Controller cards for AGC system
- VPX / VME based PowerPC, Intel, GPU based DSP boards & SBCs
- Proven / Optimized / Innovative RTOS - VxWorks
- Qualified VPX and VME Liquid Cooled and Air Cooled Systems
- Development of Electronics based on Micro Controllers and FPGA. Fabrication of multi layer populated cards and its related software & GUI.
- Electronics for Proximity and Signal Processor Cards



Proximity and Signal Processor Cards



MKU PVT LTD

Company Name : MKU Pvt Ltd
Contact Person : Anurag Gupta
Designation : Jt MD
Address : MKU Private Limited 13, Gandhi Gram
City : Kanpur
Contact Number : +91 512 302 6700
Fax : +91 512 302 6799
Email : protection@mku.com

Contribution to DRDO Projects / Programs

The firm has got the technical know how of Anti Riot Helmet and manufacturing it.



MODEL HOSIERY WORKS

Company Name	: Model Hosiery Works	
Contact Person	: Joginder Singh	Jagjeet Singh
Designation	: Partner	Partner
Address	: Madhopuri Street No. 2	
City	: Ludhiana – 141 008	
Contact Number	: +91 161 2707176	Mobile: +91 9815492600
Fax	: +91 161 4631260	
Email	: mhw@modelhosiery.com	
Website	: Modelhosiery.com	

Model Hosiery Works is one of the leading manufacturers in hosiery industry today with a humble beginning in 1947. The company specializes in socks, gloves, inners and outer knitwear's development.

Contribution to DRDO Projects/Programs

- Woolen pile socks
- NBC cotton gloves
- ECN gloves
- Thermal undergarments

MOSCHIP SEMICONDUCTOR TECHNOLOGY LIMITED

Company Name : MOSCHIP Semiconductor Technology Limited
Contact Person : C Dayakar Reddy
Designation : MD
Address : Plot No. 83, 84, II Floor, Punnaiah Plaza, Road No.02, Banjara Hills
City : Hyderabad - 500034
Contact Number : +91 40 66229292
Fax : +91 40 66229393
Email : mhw@modelhosiery.com
Website : www.moschip.com

Moschip Semiconductor Technology Limited is involved in VLSI Integration, Verification and Fabrication

Contribution to DRDO Projects / Programs

- ANUWAP SoC

MURALI ENGINEERING & PRESS METALS

Company Name : Murali Engineering & Press Metals
Address : 145, 11th Main, 12th Cross
Malleswaram
City : Bangalore-560 003
Contact Number : +91 80 23349865
Website : www.meapm.com

The industry is involved in the design and development of CFF Oxygen Mask for paratroopers. Various components such as rubber materials, moulds, hoses are developed by the firm. The firm is also involved in the development of special surgical grade knives, injection molded handles for paratroopers Jack knife for cutting entangled rigging line cords.

Contribution to DRDO Projects/Programs

- Respiratory systems
- Oxygen Mask, Jack knife



NATH ENGINEERING INDUSTRIES

Company Name	:	Nath Engineering Industries	
Contract Person	:	VK Modi	
Designation	:	Partner	
Address	:	194/1/5 GT Road (North), Salkia	
City	:	Howrah – 711 106	
Contact Number	:	+91 33 26556316	Mobile: +91 9830331104
Fax	:	+91 33 22307383	
Email	:	nath@theshivagroup.com	
Website	:	www.theshivagroup.com	

The company in association with DRDO labs has been significantly contributing in IGMDP and other similar programmes.

Contribution to DRDO Projects/Programs

- Construction of captive broad gauge rail system
- Protective bellows and covers for hydraulic cylinders of mobile launchers
- Spares for 100 T deck loading barge and high speed boat-For rudder, propeller, propeller shaft, fender, life rafts
- Pipe culverts 30" & 48" size with fittings in weather proofed condition
- Aviation obstruction light

NATIONAL SHIP DESIGN AND RESEARCH CENTRE

Company Name	: National Ship Design and Research Centre	
Contact Person	: NV Rao	
Designation	: Chief Operating Officer	
Address	: NSDRC, Gandhigram Post Opp HSL, Commercial Complex	
City	: Visakhapatnam – 530 005	
Contact Number	: +91 891 2577060	Mobile: +91 9963147555
Fax	: +91 891 2577754	
Email	: nvrao50@gmail.com	coo@nsdrc.com
Website	: www.nsdrc.com	

National Ship Design and Research Centre is associated with DRDO in design and development of navel systems.

Contribution to DRDO Projects/Programs

- Amphibious Floating Ferry System

The company had taken up a DRDO project, Amphibious Floating Ferry System, wherein a Shaktiman truck was to be converted into a floating ferry which would enable transportation of tanks and trucks to pass on them, whenever the troupes encounter water blocks. The two top flaps open up and spread out, the tyres will retract inside the body and the vehicle will float in water using the two inflatable rafts provided on the sides to give buoyancy. Pump jet propulsion has been provided for maneuvering in the water.



NEST RESEARCH AND DEVELOPMENT CENTRE

Company Name	: Nest Research and Development Centre	
Contact Person	: Dr KR Suresh Nair	
Designation	: CTO	
Address	: Plot No 43, Cochin Special Economic Zone	
City	: Kochi – 682 037	
Contact Number	: +91 484 2413165	Mobile: +91 9847545895
Fax	: +91 484 2413166	
Email	: suresh.nair@nestgroup.net	
Website	: www.nestgroup.net	

NeST R&D Centre, has electronics, photonics, mechanical, firmware, power supply and industrial design capabilities under one roof and has undertaken many DRDO projects and successfully delivered. NeST R&D centre is the design wing of NeST group, which is having state-of-the-art manufacturing facilities at Kochi.

Contribution to DRDO Projects/Programs

- 32 channel data acquisition system with RF telemetry
- Optical line redundancy for underwater sensing application
- Polarisation maintaining coupler fabrication machine
- 155 Mbps compact optical transmitter and receiver systems
- Motion measurement system



NEUGEN DESIGN SYSTEM PVT LTD

Company Name	: Neugen Design System Pvt Ltd	
Contact Person	: KC Elangovan	
Designation	: Director/CTO	
Address	: M-20, 10th Main, LIC Colony, JeevanBima Nagar, HAL 3rd Stage	
City	: Bangalore – 560 075	
Contact Number	: +91 80 25250642	Mobile:+91 9845042478
Fax	: +91 80 25298924	
Email	: kce@neugen.co.in	
Website	: www.neugen.co.in	

Neugen offers technology solutions and services for embedded computing ingredients that would accelerate the customer development process, integrate with ease, reducing risk and keeping cost low, while adhering to high quality and strict Mil/Aerospace standards.

Contribution to DRDO Projects/Programs

- Smart Vest

Handheld Wireless Device continuously monitors the physiological status to produce overall health, determine the onset of fatigue. Data is transmitted wireless for monitoring by medical personnel. Typical usage scenario - digital soldier in war field, for pilots and astronauts, police and firefighters.

- Human Centrifuge

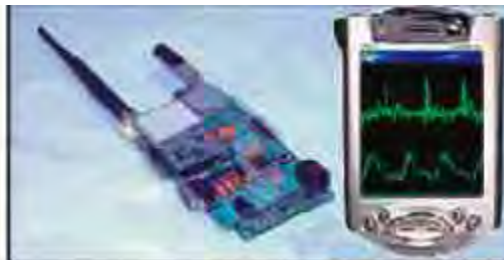
A closed loop control system for imparting training to pilot under high "G" environment with state-of-art control station, ECG monitor, peripheral loss of light and digital video recording system.

- LCA-MMR

Universal time synchronization software (as per Mil Std 2167a, 2168), acquires GPS data from airborne unit, timestamp and multicast to remote station over 1553B bus, capability to perform post data analysis.

- Flight Line Tester

A flight evaluation software to verify the performance of UAV. A GUI based platform performs tests, annunciate and log result, capability for real time I/O, establish communication link, perform online and offline data analysis.



NFOTEC DIGITAL ENGINEERING PVT LTD

Company Name : Nfotec Digital Engineering Pvt Ltd
 Address : #34,Surya Tec park, Krishna Reddy layout, Domlur
 City : Bangalore-560 071
 Contact Number : 080-4160 5685, 4166 9115, 2535 0777, 2535 4662
 Mobile: 9845021651
 Fax : 080- 4160 5782
 E Mail : www.nfotecindia.com, ss@nfotecindia.com

Nfotec Digital Engineering Pvt Ltd is involved in CAD Design, CFD Analysis, Heat Transfer Analysis, Structural and Finite Element Analysis, Fuel System Design and conceptual designs.

Contribution to DRDO Projects / Programs

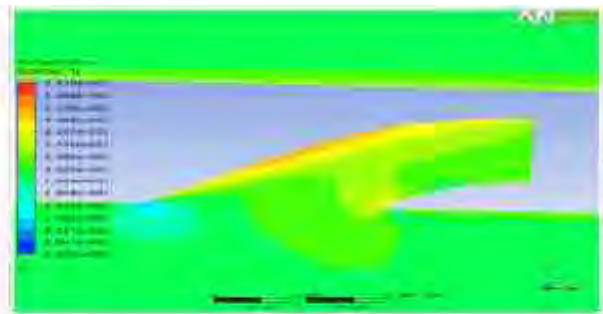
Nfotec Digital Engineering Pvt. Ltd., is contributing in ABHYAS, RUSTOM projects. Nfotec has been involved in the following DRDO Projects:

1. Conceptual design and study on fuel system for UAV's.
2. Complete CAD modeling of Abhyas.
3. CFD Analysis at different Mach No., Different side slip angels and Aerodynamic studies for ABHYAS target.
4. CAD Modeling and structural analysis of Booster bracket for ABHYAS.

Nfotec Digital Engineering Pvt. Ltd. has good infrastructure in terms of experienced CAD /CAE Engineers, Project Management, High End work stations for analysis, domain Expertise, testing specialists and Major Software Platforms required for the design and Analysis to meet project requirements of ADE.



ABHYAS CAD Modeling



ABHYAS CFD Analysis of External Aerodynamics

NIMRA CERGLASS TECHNICS PVT LTD

Company Name : Nimra Cerglass Technics Pvt Ltd
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City : Hyderabad - 500028, A.P. India.
Contact Number : +91-40-23393617
Fax : +91-40-23312568
Email : info@nimracerglass.com

Nimra Cerglass Technics Pvt Ltd is involved in supply of casted & Sintered radomes as per spec enclosed and Joining of radomes with INVAR bulk head ring.

Contribution to DRDO Projects/Programs

This firm has successfully fabricated and delivered ceramic radome, joined the radome and bulkhead to form the total radome to meet our requirement.



**Fabricated Ceramic Radome and
Joined INVAR Metal Bulkhead
Ring with Glass fret technology**

NIVAM INSTRUMENTS PVT LTD

Company Name : Nivam Instruments Pvt Ltd
Contact Person : Vijay V Nimkar
Designation : CMD
Address : 22, Electronic Sadan 2, MIDC, Bhosari
City : Pune – 411 026
Contact Number : +91 20 27120803, 27121279, 24225939 Mobile: +91 9822040243
Fax : +91 20 27122511, 24225939
Email : nivam@rediffmail.com, sales@nivam.com,
 nivam@gmail.com
Website : www.nivam.com

NiVAM Instruments Pvt Ltd is working with many DRDO Establishments from last 10-12 years.

Contribution to DRDO Projects/Programs

- Picket Driving system for AERV
- Picket Driving system for NBCRV
- Picket Driving system for LAWV
- Picket Driving system for CMF72
- Cable Harness system for Arjun
- Mine AP2A (I) firing devices
- Fuel level indicator for ambulance



Mine AP2A (I) Firing Devices



NON FERROUS MATERIALS TECHNOLOGY DEVELOPMENT CENTRE

Company Name	: Non Ferrous Materials Technology Development Centre (NFTDC)
Contact Person	: Dr K Balasubramaniam
Designation	: Director
Address	: Kancharbagh Post
City	: Hyderabad - 500 058, Andhra Pradesh
Contact Number	: +91-40-24341332
Fax	: +91-40-24340592
Email	: director@nftdc.res.in
Website	: www.nftdc.res.in/

Nonferrous Materials Technology Development Centre is an autonomous R &D institution dedicated to the development of

- (i) specialty materials, (ii) advanced & innovative processes, (iii) value added products and
- (iv) comprehensive technologies in the nonferrous materials arena. Instrumentation Transfer Tube

Contribution to DRDO Projects/Programs

The firm carried out collaborative development of the structural integrity evaluation test rig encompassing the design, analysis, manufacturing, tooling, assembly and testing activities leading to induction of critical component into engine operation for the very first time in engine operational tenure.

NUCLEONIX SYSTEMS PVT LTD

Company Name	: Nucleonix Systems Pvt Ltd	
Contact Person	: J Narender Reddy	
Designation	: Managing Director	
Address	: Plot 162 A&B, IDA, PH II, Cherlapally	
City	: Hyderabad – 500 051	
Contact Number	: +91 40 27263701	Mobile: +91 9347054812
Fax	: +91 40 27262146	
Email	: info@nucleonix.com	
Website	: www.nucleonix.com	

Nucleonix Systems Pvt Ltd founded in the year 1990, has been serving needs of the country in the field of nuclear and radiation measurement instrumentation for civilian and defence requirements.

Contribution to DRDO Projects/Programs

- RPL Dosimeter Reader Mark II
Dosimeter reader which is designed to read the cumulative Gamma + Neutron dose recorded on a RPL Wrist Dosimeter for NBC applications.
- RADMAC and Automatic Control Unit
- These are part of latest generation NBC protection system designed for battle tanks like BMP, BMP-2k.
- Single Detector Gamma Tomography system
For carrying out NDT analysis of different materials.



Automatic Control Unit



RADMAC

OMEGA CONSULTANCY

Company Name : Omega Consultancy
Contac Person : Mr. Anil Hasabe
Designation : Proprietor
Address : A-25 Whispering wind, Pashan-Baner Link Road Pashan
City : Pune-411021
Contact Number : 020 25860183
Fax : 020 25860183
Email : anil.partner@gmail.com

Omega Consultancy is engaged in instrumentation, automation, annual maintenance, software development of PLC, MMI and SCADA.

Contribution to DRDO Projects / Programs

- Automation of Planetary Mixers
- Automation of Burner control
- Automation of Incineration plant
- Customized machine automation e.g. Vacuum degassing, Punching Machine,
- Autoclaves, Pressure Casting, Bio liquid Effluent decontamination Compressors etc.
- Automation of Paint shop.
- Automation of continuous and batch process plants.
- Automation of chemical destruction plant
- Automation of casting system
- Automation of Ovens and its integration

ONIO DESIGN PVT LTD

Company Name	: Onio Design Pvt Ltd	
Contact Person	: Prakash Khanzode	
Designation	: Head, Technology Innovation and Product Design	
Address	: Survey 1/3, Plot 15A, Survik Building Next to Food Bazaar, Baner Road	
City	: Pune – 411 045	
Contact Number	: +91 20 27292174	Mobile: +91 9890006012
Fax	: +91 20 27292174 Ext-6	
Email	: prakash@oniodesign.com	
Website	: www.oniodesign.com	

Onio Design, a leading industrial design company, has clientele among DRDO labs and major private industry players. It has expertise in areas of design, strategy, consultation, new product design and product creation services, and are best suited for creating new defence-related products and systems.

Contribution to DRDO Projects/Programs

- A remotely operated vehicle for bomb disposal
- Portable controller for Daksh
- Powered exoskeleton suit
- Mobile lab system and carrier design
- Ergonomic design of BMP tank interior
- Robotic platforms
- Controller for unmanned vehicles
- Micro-ROVs
- Cooking Stoves



OPTIWAVE PHOTONICS LTD

Company Name	: Optiwave Photonics Ltd	
Contact Person	: Krishna S Kumar	
Designation	: Chief Technology Officer	
Address	: #70, Rd #10, IDA Mallapur	
City	: Hyderabad – 500 076	
Contact Number	: +91 40 27178639	Mobile: +91 9963254448
Fax	: +91 40 27171312	
Email	: info@optiwavephotonics.com	
Website	: www.optiwavephotonics.com	

Optiwave Photonics Ltd has contributed primarily in the development of optoelectronic components and systems. It has interacted with DRDO labs extensively and developed many electro-optical devices for use in defence equipment.

Contribution to DRDO Projects/Programs

- Fiber optic source for Gyroscope
- Laser and control electronics for holographic gun sight
- High power laser packages
- Fiber optic coupling system
- Laser-based night vision system



Fiber optic light source for Gyroscope



High power laser package

ORDNANCE EQUIPMENT FACTORY

Company Name : Ordnance Equipment Factory
Address : Phool Bagh, Uttar Pradesh
City : Kanpur-208001
Contact Number : 0512-2311181-85
Fax : 0512-2311186
Email : oefc.ofb@nic.in
Website : <http://ofb.gov.in/units/index.php?unit=oefc>

Contribution to DRDO Projects/Programs

The firm has got the technical know how of Boot Antimine MK-1 and manufacturing it.



ORDNANCE FACTORY MEDAK

Company Name	: Ordnance Factory Medak	
Contact Person	: RS Sodhi	
Designation	: General Manager	
Address	: Medak	
City	: Yeddumailaram – 502 205	
Contact Number	: +91 40 23283201	Mobile: +919490136055
Fax	: +91 8455 239074	
E-Mail	: hyd1_armour@sanchar.net.in	
Website	: www.ofpm.ap.nic.in	

Ordnance Factory, Medak is involved in manufacturing of BMP-2 and 2K under the TOT from Russia for the last 20 years. The infrastructure in this factory uses the state-of-the-art technology to manufacture any type of Infantry Combat Vehicles (ICV) or armoured personnel carriers. This factory was involved right from the conceptual stage of these projects to manufacture of the prototypes, Limited Series Production (LSP) and regular production.

Contribution to DRDO Projects/Programs

- Fitment of Sofma (French) Gun on BMP Mobile Chassis
- 30 mm Cannon on ground role
- Carrier mortar track
- Tracked carrier for Akash
- Track carrier for Trishul
- AACAR (Namica)
- AERV
- Armoured Ambulance
- NBC Recee vehicle



ORDNANCE FACTORY BOARD

Company Name	: Ordnance Factory Board
Contact Person	: Sudipta Ghosh
Designation	: CMD
Address	: 10-A, SK Bose Road
City	: Kolkata – 700 001
Contact Number	: +91 33 22430472, 22489320
Fax	: +91 33 22487665, 22482927
E-Mail	: ofbit.ofb@nic.in
Website	: http://ofb.gov.in

The Ordnance Factory Board (OFB) under Department of Defence Production, with its 40 Ordnance Factories (OFs), are an integrated base for indigenous production of defence hardware and equipment. The product range of OFB includes field guns, anti-aircraft guns, anti-tank guns, mortars, small arms, ammunition (small, medium and large caliber), rockets, propellants and explosives, pyrotechnics, bombs, grenades, demolition charges, mine protected vehicles, battle tanks, armoured personnel carriers, armoured ambulance, field guns, transport trucks, patrol vehicles, high altitude and combat clothing, optical and fire control instruments, special purpose machines, light floating bridges, leather items, brake parachutes, personnel parachutes, assault boats, sporting arms and ammunitions, tents, supply dropping equipment and general stores for the services, the police forces and the paramilitary forces. Some of these products such as a large variety of chemicals and sporting arms and ammunition are also used for civil trade. OFs are also entering into the export market and exporting its products to different countries world over including USA, UK, Australia, Turkey, Nigeria, Chile, Indonesia, and Malaysia.

Contribution to DRDO Projects/Programs

In-house R&D activities at Ordnance Factories aim towards development of new products/processes, upgrades of existing products/processes, absorption of TOT, collaboration/joint venture, re-engineering and innovation to meet implicit/explicit demands of service and civil market. R&D set-up at OFs includes joint working on some of the large projects with DRDO from the inception stage and to render manufacturing facilities wherever required by DRDO.

- Modern sub Machine Carbine, 5.56 mm
- INSAS Rifle (Side Folding Butt), LMG (Fixed Butt)
- UBGL and its ammunition, 30 mm
- HE Rudra Grenade for AGS-17
- Bomb 81 mm Illuminating 2A, Influence Mine
- Heavy destruction charges (HDC) and charge liner cutting (CLC)
- 81 mm anti-thermal and anti-Laser Smoke Grenade
- Modular Charge System for 130 mm M-46 Field Gun & 105 mm 37 Calibre
- IFG, Commander's Thermal Imager for T-72, Driver's Central Periscope for MBT Arjun
- Weapon Mounted Thermal Sight for AMR, Power Cartridges



ORION CHEM PRIVATE LIMITED

Company Name	: Orion Chem Private Limited	
Contact Person	: Rajrattan G Mohatta	
Designation	: Director	
Address	: Unit # 2, Building III, Sector III, Millennium Business Park, Mahape	
City	: Navi Mumbai – 40 0710	
Contact Number	: +91 22 27782942	Mobile: +91 9820236878
Fax	: +91 22 24932748	
Email	: info@orionchem.com	ocpl1@hathway.com
Website	: www.orionchem.com	

Orion Chem Pvt Limited is associated with DRDO for past many years in the development of high energy materials used in solid rocket propellants, gun propellants, explosives, pyrotechniques.

Contribution to DRDO Projects/Programs

- High energy materials

Tris (2, Methyl Aziridiny) Phosphine Oxide (MAPO), MATO, Glycocidyl Azide Polymer (GAP), 2,3 Dimethyl 2,3 Dinitrobutane (DMNB), Alkyl NENA, Hydroxyl Terminated Poly Butadiene, 4,10 Dihydro 2,6,8,12 Tetraacetyl 2,4,6,8,10,12 Hexaazaisowurtzitane (TAIW)

OSCAR EQUIPMENTS PVT LTD

Company Name	: Oscar Equipments Pvt Ltd	
Contact Person	: VP Jain	
Designation	: Managing Director	
Address	: DH Road, Mouja Bhasa, 24 Parganas(S), W.B.	
City	: Kolkata – 743 503	
Contact Number	: +91 33 2453 1938	Mobile: +91 9331035450
Fax	: +91 33 24978494	
Email	: marketing@oscarequipments.com	vpjain45@gmail.com
Website	: www.oscarequipments.com	

Oscar Equipments has been associated with labs of Defence Research & Development Organisation since inception of the company. Oscar has developed customised hydraulic cylinders and hydraulic systems including its integration, installation and commissioning on tracked and wheeled military vehicles, used on bridging equipments & launchers.

Contribution to DRDO Projects/Programs

- 3-Stage Pier Leg Assemblies including fabrication of Base Plate in RDG-40 Aluminium alloy with Synergy Pulse Mig welding process for bridging system
- Telescopic Pier System
- Pier System (Short)
- Hydraulic System mounted on wheeled vehicle Tatra for bridging
- Launching Mechanism - For multi-span bridge
- Hydraulic system and cylinders for Bridge Layer Tank on T-72 chassis
- Hydraulic cylinders and oil distributors for Bridge Layer Tank
- Single stage & multi stage hydraulic cylinders, hydraulic jack assemblies for missile launchers
- Outrigger Cylinders for rocket launcher



PANDIAN CHEMICALS LIMITED

Company Name : Pandian Chemicals Limited
Contact Person : Sundaraja Moorthy
Designation : Director, Technical
Address : No. 17- A, Vallabhai Road, Chokkikulam
City : Madurai - 625 002, Tamil Nadu
Contact Number : +91 452 253 2436
Fax : +91 452 253 2151
Email : pandian@pclindia.com
Website : www.pclindia.com

The Pandian Chemicals Limited is engaged in manufacturing of Potassium Perchlorate, Sodium Perchlorate, Ammonium Perchlorate, Magnesium Perchlorate, Perchloric Acid and Potassium Chlorate.

Contribution to DRDO Projects/Programs

M/s Pandian Chemicals Limited, Madurai is a regular supplier of ammonium perchlorate to DRDO labs and Ordnance factories. Ammonium perchlorate is used as an oxidizer in composite solid rocket propellants.

PARAGON TEXTILE MILLS PVT LTD

Company Name : Paragon Textile Mills Pvt Ltd
Contact Person : Narendra K Patel
Designation : Managing Director
Address : I-11/12, Paragon Condominium,
Pandurang Budhkar Marg, Worli
City : Mumbai – 400 013
Contact Number : +91 22 24938752, 24938599 Mobile: +91 9821433634
Fax : +91 22 24936627
Email : padmashrians@rediffmail.com

The company is engaged in the development and production of special fabric for use in garments in association with DRDO labs.

Contribution to DRDO Projects/Programs

- Fabric Nylon 75 gsm and 105 gsm PU coated white for high altitude defence garments.
- Fabric Nylon 95 gsm FR/OR/WR air permeable fabric for outer layer of NBC garments and other applications.
- Both side PVC coated fabric for camouflage net with IR/UV reflectance values in different shades.
- Fabric Nylon 100 gsm rip-stop disruptive printed FR OR WR for life jacket – MK1.
- Fabric Nylon 395 gsm water proof disruptive printed with Army logo.

PARAS ENTERPRISES

Company Name : Paras Enterprises
Contact Person : Paras Jain
Designation : Proprietor
Address : 725, Deccan Gymkhana, Opp Central Bank
City : Pune – 411 004
Contact Number : +91 20 25532769, 24261101
Fax No. : +91 20 25537731
E-mail : Parasenterprises_pune@yahoo.co.in

Paras Enterprises is supplying metals, ferro alloys, non-ferrous materials to various Defence organisations as well as private industries.

Contribution to DRDO Projects/Programs

- Professional electronics goods, professional editing system, Professional grade DV-cam-recorder/player, CCTV, special electro-grade Brass-Copper sheet, Aluminium bars, tubes, and others. Special grade digital cameras and professional editing system.
- Ferrous and non-ferrous material

PARK CONTROLS & COMMUNICATIONS LTD

Company Name	: Park Controls & Communications Ltd	
Contact Person	: PJB Noble	
Designation	: CEO & Director (Commercial)	
Address	: 22, 80 Feet Road, HAL 3rd Stage	
City	: Bangalore – 560 075	
Contact Number	: + 91 80 25297199	Mobile: +91 9845058768
Fax	: + 91 80 25291716	
Email	: pjb.noble@parkcontrols.com	
Website	: www.parkcontrols.com	

Park Controls & Communications is a recognised R&D unit under the Ministry of Science & Technology. The company is ISO 9001 & AS 9100 certified. The company has designed and developed most comprehensive and the only indigenous PCM Telemetry System with support for up to 20 Mbps data rate with quality and features at par internationally. Presently used by DRDO for flight, missiles, ballistics and parachute test applications.

Contribution to DRDO Projects/Programs

The company is presently engaged in

- Telemetry System based on Laptop
- Time Reference System of the Brahmos Ground Control System and ITR Missile Launches
- Control Systems for PCMC Radar Antenna and Telemetry Antenna
- Design of Generic Onboard Data Acquisition System for aircraft, missiles, submarines
- Design of Radar Target Simulator
- Design of Solid State Recorders

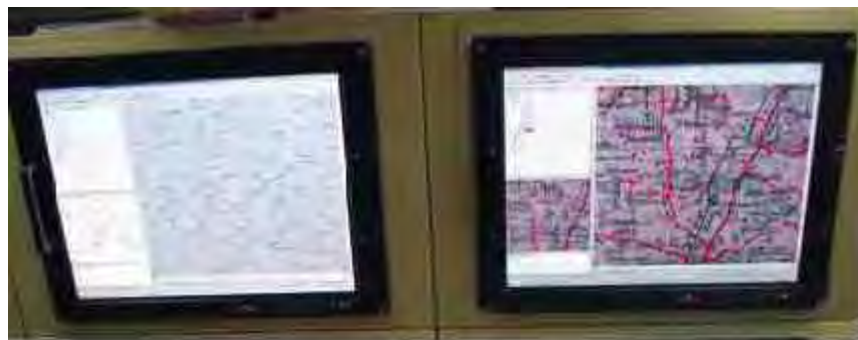
PEGASUS SOFTWARE CONSULTANTS PVT LTD

Company Name	: Pegasus Software Consultants Pvt Ltd	
Contact Person	: S Sampath Kumar	KT Sridhar
Designation	: General Manager	Managing Director
Address	: 3792, 7th Main, HAL 2nd Stage, Indira Nagar	
City	: Bangalore – 560 038	
Contact Number	: +91 80 25264252, 25203989	+91 9880151221
Fax	: +91 80 25203989	
Email	: sampathsk@pegasoftech.com sridharkt@pegasoftech.com	
Website	: www.pegasoftech.com	

A software company with an R&D focus, Pegasus develops indigenous technology and intellectual property for geographical information systems. Offers a suite of GPS enabled geomatics products – GIPSY for desktops, MAPSY for palmtops, GeoEngine API – product engineering and software development services.

Contribution to DRDO Projects/Programs

- GPS enabled palmtop SATHI
Delivered GIS modules for the first indigenous GPS enabled palmtop, SATHI
- GIS solution to unmanned air-vehicle Nishant



Nishant: Map Display in Advanced Ground Control Station

PERFTRENDS TECHNOLOGIES PRIVATE LIMITED

Company Name : Perftrends Technologies Private Limited
Contact Person : R Swaminathan
Designation : Business Manager
Address : Kumaran Nagar, Semmanchery
City : Chennai - 600119
Contact Number : 044-24502581/82/84
Fax : 044-24502583
Website : www.perftrends.com

Perftrends Technologies Private Limited is involved in Board Development and VLSI Integration, Verification & Fabrication

Contribution to DRDO Projects/Programs

- o SoC-Flash
- o SoC-Flash based Navigator Systems



PERMIONICS MEMBRANES PVT LIMITED

Company Name	: Permionics Membranes Pvt Limited
Contact Person	: Mr. VY Jose
Designation	: MD
Address	: 3/29, 4/19, BIDC, Gorwa Estate
City	: Vadodara-390 016 (Gujrat)
Contact Number	: +91 265 228 0003 228 3171, 228 1563
Fax	: +91 265 228 1512
Email	: info@permionics.com
Website	: www.permionics.com

Permionics Membranes Pvt Ltd is engaged in the development of special purpose Water Purification Systems and Indigenous Membranes

Systems & Products for which partnered with DRDO:

1. Development, fabrication & supply of NBC Water Purification System Mk-I
2. Development & fabrication of High Turbidity Water Purification System
3. Development & fabrication of Field Water Purifier

Contribution to DRDO Projects/Programs

Under Limited Series Production order placed by Army, the firm played key role in incorporating several modifications during the development & fabrication of the system, to meet the developer (DLJ) & end User (Indian Army) requirements. The firm got various sub-components tested to JSS 55555 standards and got associated throughout the confirmatory trials (track trials, technical confirmatory trials at DRDE, Gwalior & BARC Mumbai).



PIEZO SYSTEMTECH PVT LTD

Company Name	: Piezo Systemtech Pvt Ltd	
Contact Person	: N Thirunavukkarasu	
Designation	: Director	
Address	: No: 33/6, 2nd Floor, Lane-1, Balaji Layout, 26th Cross, Kagadasapura, CV Raman Nagar	
City	: Bangalore – 560 093	
Contact Number	: +91 80 25347090	Mobile: +91 9886681510
Email	: info@pieazo.com	
Website	: www.pieazo.com	

Piezo Systemtech designed and developed hardware, firmware and PC based software for Bio-sensor product. This product has been developed for DRDO's 'Biotechnology-2000 Programme' and scope of this programme is to improve operational efficiency of Armed Forces.

Contribution to DRDO Projects/Programs

- Bio-sensor Instrument

This instrument along with electrodes can detect presence of enteric bacteria in the given environmental sample and the type of bacteria that can be detected is called Salmonella Typhi.

- Embedded software for Color LCD Electronic Warfare Display unit

Display unit which is fitted inside cockpits of MiG-21, MiG-27, MiG-29, IL-76, Jaguar and Sea Harrier aircrafts. The unit is integrated with other avionics, electronic warfare subsystems on board aircraft.



PLA ELECTRO APPLIANCES PVT LTD

Company Name : PLA Electro Appliances Pvt Ltd
 Contact Person : TN Shah
 Designation : Director
 Address : Vidyavihar (West)
 City : Mumbai – 400 086
 Contact Number : +91 22 25116864/ 25116865
 FAX : +91 22 25168948
 E-MAIL : plaelectro@vsnl.com
 Website : www.plaelectro.com

In 1986, PLA joined hands with DRDO for the development of radiation detection equipments like Roentgenometer and Flash Sensor. Subsequently, Portable Doserate Meter and Pocket Dosimeter were developed. In the year 1994, PLA entered into development of control panel for underground NBC field shelters. In 1997, PLA entered into production of control system for NBC protection of battle tank T-72 for Heavy Vehicles Factory. In 2004, PLA added a high radiation test facility, which is approved by DRDO.

Contribution to DRDO Projects/Programs

- Roentgenometer RM-102
Used in T-72/Arjun tanks to measure gamma radiation exposure dose rate.
- Flash Sensor FD-1
Used in T-72/Arjun tanks, produces a signal to operate NBC protection system in case of nuclear explosion.
- Portable Doserate meter PDRM-102
Survey meter to measure doserate in a fallout area after nuclear explosion.
- Pocket Dosimeter PDM-521
To measure dose absorbed by army personnel's in a field affected by nuclear warfare.
- NBC Shelter Control Panel
For underground NBC field shelters.



RM-102



FD-1



PDRM-102



PDM-521



NBC Shelter Control Panel

POONA UDYOG

Company Name	:	Poona Udyog	
Contact Person	:	SV Mohindra	
Designation	:	Partner	
Address	:	72/3, S Block, MIDC, Bhosari	
City	:	Pune – 411 026	
Contact Number	:	+91 20 27120726, 27128460	Mobile: +91 9850504391/2/3
Fax	:	+91 20 27120139	
Email	:	poonaudyog@vsnl.net	

Poona Udyog has developed retarder tail units used for bombing with bombers flying at low altitude to avoid detection on radar and cluster bomb components.

Contribution to DRDO Projects/Programs

- Retarder Tail Units (RTU'S)
- Stabiliser assy for Pinaka
- Cluster bomb components
- Skin Unlatching assy
- Hod assy
- Dowel pins
- Blanking plug

PRAJ INDUSTRIES LIMITED

Company Name : Praj Industries Limited
Contact Person : Abhay Chaudhari
Designation : Executive Vice President
Address : Praj House, Bavdhan
City : Pune – 411 021
Contact Number : +91 20 22951511
Fax : +91 20 22951718
Email : abhaychaudhari@praj.net
Website : www.praj.net

Praj is a technology, engineering and plant and equipment company engaged in providing solutions for ethanol, bio-diesel and breweries. Praj also supplies process equipment and solutions to the general process industry. They are registered supplier to DRDO.

Contribution to DRDO Projects/Programs

- Acetic Acid recovery plant – from waste water

PRECISION ELECTRONICS LTD

Company Name	: Precision Electronics Ltd	
Contact Person	: Col Romesh Kaul	
Designation	: Vice President, Def Marketing	
Address	: D-10, Sector-3	
City	: Noida – 201 301	
Contact Number	: +91 120 2551556, 2551557	Mobile: +91 9910383144
Fax	: +91 120 2524337	
Email	: romesh.kaul@pelindia.com	
Website	: www.pelindia.com	

Precision Electronics, in association with DRDO labs, has been working on secure communications systems, designed and developed requisite algorithms. It has partnered with Systems Planning & Integrated Communication (SPIC) to design and engineer high-end Multiplexing Systems for use in communication systems.

Contribution to DRDO Projects/Programs

- Bulk Encryption Unit (Electra)
- Multiplexing systems for secure communication



PRECISION MODEL DESIGNERS

Company Name	: Precision Model Designers	
Designation	: KN Sridhar	
Address	: No 178, APMC Yard Shankarnagar	
City	: Bangalore – 560 096	
Contact Number	: +91 80 65631501	Mobile: +91 9448139975\
Fax	: +91 80 23371275	
E-mail	: pmd@pmdmodels.com	
Website	: www.precisionmodeldesigners.com	

Precision Model Designers (PMD) are the leaders in realising complex engineering models and mementos over the past two decades. PMD has given shape to prestigious aeronautical, aerospace, defence, automobile and industrial products of high precision and accuracy with functional capabilities. Their excellence in work and prompt service has earned them many clients all over the country and abroad.

Contribution to DRDO Projects/Programs

- FRP models of LCA like aircraft, trainer and navy with transparent cockpit internal details
- Lakshya (scale down) models for Lakshya Division and LCA seats working models for Simulation Division
- Radar models like 3D CAR system, Indra, Rajendra, Moofar and Vajra vehicles
- Testing thrust and electronic models.
- Different scales of WLR, BLR, 3D CAR models. Akash Weapon System Models (scaled down) with 3D landscape base totally giving warfield effects
- Different scales of MBT Arjun, ICV Abhay, Bhishma, CIAjeya, EX Tank models
- Different scales of AAD, AERV, NBC Recee vehicles and ICV Abhay models
- Different scales of Astra Missiles and FRP Sukoi aircraft models

PREMIER EXPLOSIVE LIMITED (PEL)

Company Name	:	Premier Explosive Limited (PEL)
Contact Person	:	AN Gupta
Designation	:	CMD
Address	:	Premier House No.11, Ishaq Colony, Near AOC Centre
City	:	Secunderabad- 500 015 (Andhra Pradesh)
Contact Number	:	+91 40 6614 6801 / 2 / 3/ 4/ 5
Fax	:	+91 40 2784 3431
Email	:	ang@pelgel.com
Website	:	www.pelgel.com

Premier Explosive Limited is specialised in the area of providing High Energy Materials ot DRDO.

Contribution to DRDO Projects/Programs

- Booster, Sustainer and Cartridge loaded propellant for different class of rockets
- B: KNO₃ pellets for igniters
- Gas Generators for different missiles

PRISM INDIA PRIVATE LIMITED

Company Name	:	Prism India Private Limited
Contact Person	:	V Jayaram
Designation	:	Director
Address	:	R.S.No. 84/1, Nallavadu Road
City	:	Thavalakuppam, Puducherry
Contact Number	:	+91 413 261 9001
Fax	:	+91 413 261 8755
Email	:	prism@vsnl.com
Website	:	www.prismindia.com

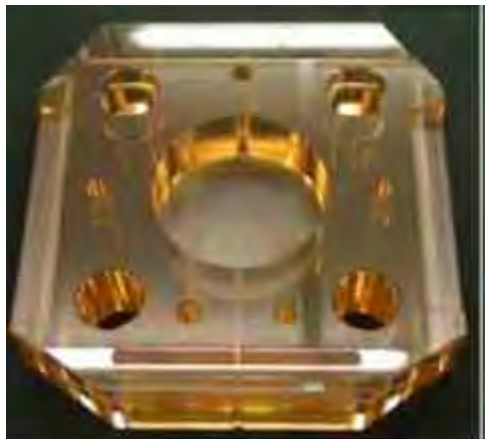
Prism India Private Limited is manufacturing and exporting a range of optical components, precision optical instrument, optical testing instruments and plano optics. They also design and engineer optical and metrology equipment to meet the requirements of OEMs. With over 18 years of experience they have managed to get large number of satisfied clients.

The precision engineered range of optical components, diffractive optical elements, Plano optics and optical and metrology equipment is widely used in night vision binoculars, laser range finder, laser levels telescopes, refractometers, microscopes and metrology equipment.

Optical Component of Ring Laser Gyro.

Contribution to DRDO Projects/Programs

Contributed towards developing ultra precision optical component and supported as partner in developing and delivering the Ring Laser Gyro required for various prestigious mission of National Interest.



PROCESS PUMPS (I) PVT LTD

Company Name	: Process Pumps (I) Pvt Ltd
Contact Person	: V Babu Sathian
Designation	: Managing Director
Address	: Plot No 86, III Phase, Peenya Industrial Area
City	: Bangalore – 560 058
Contact Number	: +91 80 28395327/28
Fax	: +91 80 28395807
Email	: ppil@satyam.net.in ppil_blr@dataone.in
Website	: www.process-pumps.com

Process Pumps are a group of companies manned by a team of highly qualified professionals in the field of metallurgy, material science and power electronics. The group has been associated with various prestigious organisations of national importance such as ISRO, BARC, DRDO, Indian Navy, etc., for the last three decades. Recognizing our R&D capabilities, DSIR has accorded them as an in house R&D Centre.

Contribution to DRDO Projects/Programs

- Mechanical structure/platform
- Sonar transducer support structure
- ICCP systems - With effective signature management system and microprocessor control

PROCESSWARE SYSTEMS (P) LTD

Company Name	: Processware Systems (P) Ltd	
Contact Person	: Guru Murthy	
Designation	: CEO	
Address	: 33, PT Street, Basavanagudi	
City	: Bangalore – 560 004	
Contact Number	: +91 80 26572188	Mobile: +91 9844099110
Fax	: +91 80 26572365	
Email	: guru@ptpl.com	
Website	: www.ptpl.com	

Processware has designed and developed Mission Computer Software for Light Combat Aircraft in association with ADA. Processware has been involved in implementing world standards in software development related to embedded systems. Processware has been involved in promoting Ada language, IEEE 12207 standards and DO-178B standards. Processware has been performing independent validation and verification (IV&V) activities for Flight Control System of LCA in association with DRDO. Processware was involved in MiG-27 Core Avionics Computer upgrade. Processware has made significant contribution in enriching software development life cycle standards across DRDO labs.

Contribution to DRDO Projects/Programs

- Bio Medical Data Acquisition System (BIODAS)

This system is deployed for Indian Navy to establish communication from ship to shore

PULSE ENGINEERING

Company Name : Pulse Engineering
Contact Person : Mr Sanjeev Mallick
Designation : President
Address : Pulse Engineering, D-153, Industrial Area, Phase –8, SAS Nagar
City : Mohali- 160071
Contact Number : +91 172 223 7646, 223 7747
Fax : +91 172 274 4584
Email : sm@pulse-power.com
Website : www.pulse-power.com

Pulse Engineering has developed Power Supplies (Avionics Grade, Laser system, FDR,), Embedded Control System, Data Acquisition System, Intelligence Sensors Module (Temperature, Pressure, Humidity), Test Jigs, Battery charger for NiMH / NiCd and Li-Ion Battery (Specialised Defence Application) and Laser Proximity Fuze

Contribution to DRDO Projects/Programs

- Developed high power laser diode driver card and its power supplies.
- Develop laser receiver power supply card containing light High Voltage power supply for APD.

PURELEC CARBON (I) PVT LTD

Company Name	:	Purelec Carbon India Pvt. Ltd
Contact Person	:	Sri Umesh Shoney, Sri Subroto Roy
Designation	:	Managing Director, Technical Director
Address	:	8, Salai Mariamman Koil II Street, Muthialpet Puducherry 605003
City	:	India
Contact Number	:	+91 41 322 37958
Mobile	:	+91 9842334863, +91 9443255105
Fax	:	+91 41 322 36287
Email	:	purelec@gmail.com
Website	:	www.purelec.net

The firm is capable of machining carbon and graphite components to customers' specifications and requirements. Developed Carbon seals for Engine Gear Box Drive Accessories

Contribution to DRDO Projects/Programs

The firm has successfully developed seven varieties of seals to different specifications. Carbon elements are the heart of a seal assembly. Apart from metallic parts of the seal assembly, carbon elements machining are the most critical for successful functioning of the seals, in terms of performance and life. The firm has developed the manufacturing process for all the components of seal assembly and demonstrated the performance for endurance and environmental conditions. The seals are functional in Engine Gear Box of Gas Turbine Engines and performance is satisfactory.

R G INDUSTRIES NEW DELHI

Company Name : R G Industries New Delhi
Address : K - 85, Hauz Khas
City : New Delhi - 110016
Contact Number : +91 11 41756855
Fax : +91 11 26510215
Email : rgi_del@hotmail.com

The Company is developing Antifreeze coolants DAFC 30, DAFC 50 and Recoil Fluid DAFC 60

Contribution to DRDO Projects/Programs

The firm has got the technical know how of manufacturing DAFC 30, DAFC 50 and DAFC 60 for the DRDO labs



RAKSHA POLYCOATS (P) LTD

Company Name : Raksha Polycoats (P) Ltd
 Contact Person : Abhijit Sarkar
 Designation : Managing Director
 Address : S-17, T-Block, MIDC, Bhosari
 City : Pune – 411 026
 Contact Number : +91 20 27121300
 Fax : +91 20 66111655
 Email : rakshapolycoats@yahoo.com

Raksha Polycoats (P) Ltd has developed the fabric as well as the decontamination suit which has withstood rigorous testing. These are NBC detection, protection equipment which require high degree of reliability. Raksha Polycoats (P) Ltd is associated with DRDO, right from inception to bulk production of these items.

Contribution to DRDO Projects/Programs

- Decontamination suit
- Personal decontamination kit
- Three colour detector paper
- Decontamination solution
- Amphibious ferry and floating system
- NBC shelter
- Satellite recovery experiment float
- Hyperbaric chamber
- Falcon landing bags
- Flexible fuel tank



Personal Decontamination Kit



Decontamination Suit



NBC Shelter



RAY ENTERPRISES

Company Name	: Ray Enterprises	
Contact Person	: Dinesh Chowdhary	Pranay Chowdhary
Designation	: Chief Executive	Marketing Director
Address	: 18, Industrial Estate, Ambala Cantt	
City	: Ambala – 133 001	
Contact Number	: +91 171 2699399	Mobile: +91 9416069399 9416068007
Fax	: +91 171 2699420	
Email	: rayen@dataone.in	info@rayen.in
Website	: www.rayen.in	

Ray Enterprises in association with DRDO labs have developed LED based lamps, etc., for use in vehicles.

Contribution to DRDO Projects/Programs

- LED based fixtures
- Assembly of LED Roof Lamp Model No. RE-RL-012
- Marker Light Rear Model No. RE-MLR-013
- Marker Light Front Model No. RE-MLF-014
- Head Light Model No. RE-HL-126
- Mechanical assy for Holo sight



REAL TIME TECH SOLUTIONS PRIVATE LIMITED

Company Name : Real Time Tech Solutions Private Limited
Contact Person : K Natarajan (S/W Division)
Designation : Senior Vise President
Address : 59, Lavanya Towers, 2 & 3rd Floor, 4th Main, 18th Cross, Malleswaram
City : Bangalore - 560055

Core Competency

High Performance Computing Cluster integration and maintenance

Contribution to DRDO Projects/Programs

128-Node PACE++ System





RECKERS CONTROL INDIA PVT LTD

Company Name	: Reckers Control India Pvt Ltd	
Contact Person	: KP Singh	
Designation	: Managing Director	
Address	: 14 LGF, NRI Complex, Mandakini, GK-IV	
City	: New Delhi – 110 019	
Contact Number	: +91 11 26270788/89	Mobile: +91 9212728001
Fax	: +91 11 26270789	
Email	: sales@reckersreckers.com	
Website	: www.reckersreckers.com	

Reckers Group is working in the field of automation & control, test & measurements, customised mechatronics application developments, engine testing (DYNO) and balancing machines. Worked with different government sectors like DRDO, HAL, designed & developed variety of systems as per their needs.

Contribution to DRDO Projects/Programs

- Aerostat Health Monitoring System (AHMS)

Health monitoring system is a data acquisition system having various onboard sensors and transmits them in real time to the ground control station for operational requirements and storage.



GCS Unit for AHMS



Blower & Actuator Assembly

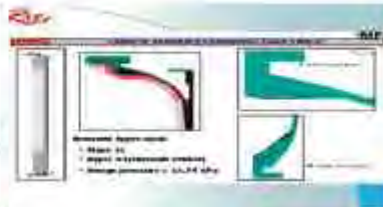
RESINS & ALLIED PRODUCTS

Company Name : Resins & Allied Products
 Contact Person : R Chandra Mohan
 Designation : Proprietor
 Address : Plot No 176/2A, D No 13-2, Nidamanuru, Vijayawada
 City : Krishna Dist – 521 104
 Contact Number : +91 866 2842030
 Fax : +91 866 2843090
 Email : rap_@rediffmail.com

Resin & Allied Products is one of the leading contributors from small scale sector for aerospace requirements. Commencing its activities with the development of insulation by the extrusion process in 1984, the firm has diversified into development of composite and special products. RAP has been conferred with prestigious Technology Absorption Award for the year 2003 for its work carried out on Thermal Protection System for Rocket and Ramjet vehicles.

Contribution to DRDO Projects/Programs

- Autoclaves
- Ablative nozzle liners
- In-situ composite insulation lay-up for rocket motor casings
- Composite rocket motor casings by filament winding
- Turnkey nozzle processing and integration
- Special products like Flex seal, Polyamide piping, Jet deflector, Basket Igniters
- Inflatable mandrels



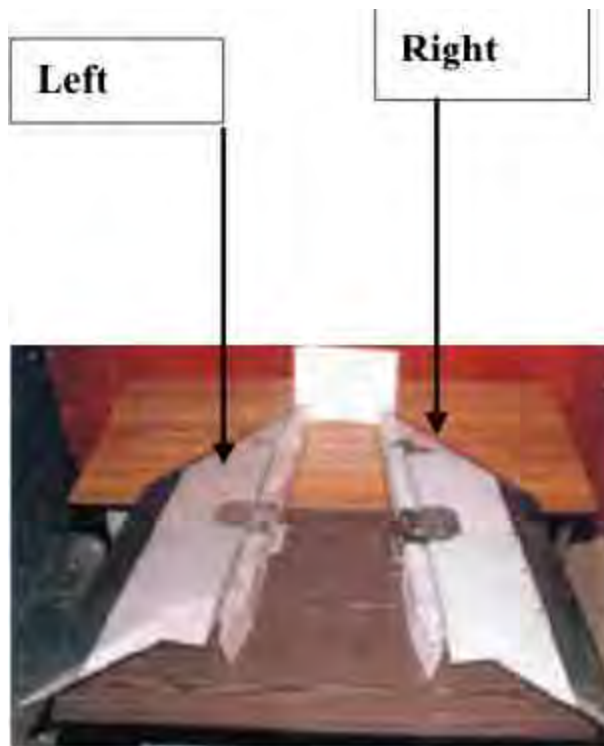
REVATHI ENGINEERING

Company Name : Revathi Engineering
Contact Person : Phanindra Gotety
Designation : General Manager
Address : Plot No 41, Sundernagar
City : Hyderabad – 500 038
Contact Number : +91 40 23705335 Mobile: +91 9000011727
Fax : +91 40 23706868
Email : revathigotety@gmail.com
Website : <http://www.revathiengineering.com>

Revathi Engineering has been associated with DRDO labs in developing and supplying stabilized fin assembly for missiles.

Contribution to DRDO Projects/Programs

- Stabilizer Fin Assembly - Missiles



ROLTA INDIA LTD

Company Name	: Rolta India Ltd
Contact Person	: Kamal K Singh
Designation	: Founder Chairman and CEO
Address	: Rolta Tower A, Rolta Technology Park, MIDC, Andheri (East)
City	: Mumbai - 400093
Contact Number	: +91 22 29266666
Fax	: +91 22 28365992
Email	: indsales@rolta.com
Website	: www.rolta.com

Rolta India is working on software products in collaboration with DRDO labs engaged in the development of Geographical Information Systems for their projects.

Contribution to DRDO Projects/Programs

- CUTE GIS Software
A Geographical Information System and Management Information System based application.
- GIS based planning system
To support the C4I software to coordinate the combat operations of the Mobile Command Post to engage single and group targets.
- Army Strategic Operational Information Dissemination System (ASTROIDS)
- Vehicle-tracking system- GIS based



Trajectory of Missile

RSWM LIMITED

Company Name : RSWM Limited
Address : Rajsthan Spinning and Weaving Mills Ltd.
(An LNJ Bhilwara Group Company), LNJ Nagar, Mordi District, Raj
City : BANSWARA- 327001
Contact Number : +91 2961 231230, 231630, 231650
Fax : +91 2961 231250
Email :
Website : www.rswm.in

RSWM is engaged in the Spinning of natural and synthetic fibers in wide count range with large numbers of spindles per frame

Contribution to DRDO Projects/Programs

The firm has collaborated with DMSRDE Kanpur for spinning of Stainless steel fibre and blended fibre into the yarn of count 1/9 Ne, 1/13 Ne, and subsequently conversion of the yarns into the fabric of different geometry weave . 9.0 metres of 100% SS yarn and 70.0 metres of 60/40 blended fabric has been produced. This fabric is used in microwave applications and STEP Program (DRM-SSI)

S D S ELECTRONICS PVT LTD

Company Name : S D S Electronics Pvt Ltd
Address : 352, Industrial Area, Phase II,
City : Panchkula – 134113, HARYANA
Contact Number : +91 172-2591032, 2592898
Fax : +91 172-25912899
Email : info@sdsepl.com
Website : www.sdsepl.com

SDS Electronics Pvt Ltd has developed :

- Metal Detectors
- Bomb Blanket
- Bomb suit
- Electronic Stethoscope
- Helmet with visor
- Search Light etc

Contribution to DRDO Projects/Programs

Technology of Short Range Laser Dazzlers was transferred to SDS Electronics Pvt. Ltd. The firm has worked with LASTEC in close coordination to bring out rugged production prototype shown below.



Hand Held Short range laser dazzler

S M CREATIVE ELECTRONICS LIMITED

Company Name : S M Creative Electronics Limited.
Address : 10, Electronic City, Sector 18
City : Gurgaon-122 015
Contact Number : +91 124 2455203
Fax : + 91 124 2346465, 2455212
Email : -
Website : www.smcel.com

S M Creative Electronics Ltd has developed DC-DC converters for torpedoes

Contribution to DRDO Projects/Programs

In the development of DC-DC converters for torpedoes.



Tx DC-DC converter



Rx DC-DC converter



170V DC-DC converter

SAARC TOOL TECH (P) LTD

Company Name : SAARC Tool Tech (P) Ltd
 Contact Person : P Murugesh
 Designation : Managing Director
 Address : Plot No 85/86/87, SIDCO Industrial Estate
 Malumachampatti, Post
 City : Coimbatore – 641 021
 Contact Number : +91 422 2655152/55/56 Mobile: +91 9902007401
 Fax : +91 422 2655156, 57
 Email : saarctool@yahoo.com
 Website : www.saarctool.com

SAARC Tool Tech is developing indigenous packaging solutions to the needs of defence forces. The company is located at Coimbatore with complete production infrastructure and test labs.

Contribution to DRDO Projects/Programs

Developed following packing solutions for

- RADAR
BFSR (SR), GDR, LLLR, Ashlesha
- Avionics
Tarang, Airborne equipment, Electronic Equipment, HADF
- Small Arms
RIFLES, UBGL, MGL, Carbine, AMR GUN
- Missiles
Akash, Pinaka, Nag, INVAR
- Other Projects
HHTI, SATCOM, NVD, Mines, STARS 'V', Fuze Radar



SAARC MIL Case

SABIC INNOVATIVE PLASTICS INDIA PRIVATE LIMITED

Company Name	: Sabic Innovative Plastics India Private Limited	
Contact Person	: Sakti Mohanty	
Designation	: GM - Defence/Transportation	
Address	: Gateway Tower, 8th Floor, DLF City Phase-III, NH-8	
City	: Gurgaon – 122 002	
Contact Number	: +91 124 4018001	Mobile: +91 9811801315
Fax	: +91 124 4018022	
Email	: Sakti.mohanty@sabic-ip.com	
Website	: www.sabic-ip.com	

Sabic Innovative Plastics is one of the leading suppliers of engineering thermoplastic materials catering to a wide number of market segments with products such as Polycarbonate, ABS, ASA, PC/ABS, PBT and PEI resins under the trade names of Lexan, Cycolac, Gelay, Cycoloy, Valox, Ultem/Extem.

Over the years company have been actively working on a number of projects in coordination with DRDO labs. One such project required the use of Polycarbonate, Lexan grade material for 20 Rd Magazine (LMG) that has subsequently been introduced into regular production by Indian Ordnance Factories.

Contribution to DRDO Projects/Programs

- Carbine housing
- Hand guard for assault rifles using smart materials



Magazine



Carbine Housing



Handguard

SAFT BATTERIES

Company Name	: Saft Batteries	
Contact Person	: Helena Drehmer	Promod N Mathur
Designation	: Sales Director LBD	Representative En Inde
Address	: 12, Rue Sadi Carnot,	C9/9650, Vasant Kunj
City	: Bagnolet – 93170, France	New Delhi
Contact Number	: +91 331 49931821	Mobile: +91 9810059588
Fax	: +91 331 49931951	
Email	: Helena.drehmer@saftbatteries.com	Promod.mathur@vsnl.com
Website	: www.saftbatteries.com	

Saft batteries extensively interacted and cooperated with Electronics and Radar Development Establishment, for selection of appropriate battery chemistry, as well as design and development of a rechargeable lithium power source. The battery so developed is in use and being produced by BEL.

Contribution to DRDO Projects/Programs

- Lithium Rechargeable Battery

SAI SHARAN COMPUTERS

Company Name : Sai Sharan Computers
Address : Plot No. 74, Ramana Priya Apts, North Kamalanagar
City : Hyderabad - 500 062
Contact Number : +91 27128846, 27126807
Fax : +91 27217219
Email : sai_sharan@yahoo.com

Sai Sharan Computers has developed:

- Electronics Systems and Sub Systems fabrication and testing
- Printed Circuit Board design
- CAD Design
- MIL Grade PCBs
- Single Layer Rigid
- Multilayer Rigid
- Flexi Rigid
- Flexi Rigid-Flexi Rigid
- Rigid Flexi outward connector
- PCB Design manufacturing and population for various Products

Contribution to DRDO Projects/Programs

Contributed towards the manufacturing and population of PCBs of Ring Laser Gyroscope.



SAMTEL DISPLAY SYSTEMS LTD

Company Name : SAMTEL Display Systems Ltd
Contact Person : JK Dudani
Designation : Head - Business Development
Address : 6th Floor, TDI centre, District center –Jasola
City : New Delhi-110025
Contact Number : +91 011 42424000
Fax : +91 011 42424099

The Company developed Indigenous MFDs of sizes 5"x5", 6"x6" and smart MFDs of size 6"x8" and 12"x9"

Contribution to DRDO Projects/Programs

SAMTEL has been associated with DARE in the development of indigenous Avionics Display Systems like MFDs.

SARGAM METALS PVT LTD

Company Name : Sargam Metals Pvt Ltd
 Address : Sargam Metals Pvt Ltd, 2 Ramavaram Road, Manapakkam
 City : Chennai 600 089, India
 Contact Number : +91 44 22496732
 Fax : +91 44 22491651
 Email : cp@sargammetals.com

Sargam Metals Pvt Ltd has its competency in the production of sacrificial anodes, Impressed Current Cathodic Protection (ICCP) components and shaft grounding system for marine applications.

The firm is a ToT partner of NMRL for the following products:

- Indium activated Al alloy sacrificial anodes (MK I to MK XII)
- Both Pt-Ti and Pb-Ag anode ICCP system including auto control unit for Naval ships
- Low potential Al alloy sacrificial anodes
- Active shaft Grounding system for ships

Contribution to DRDO Projects/Programs

The firm has successfully absorbed the above technologies developed by NMRL. The above products has been successfully inducted in Navy and are being supplied by the firm to users.



COMPONENTS OF CATHODIC PROTECTION SYSTEM



Pb-Ag ICCP anode



Pt-Ti ICCP anode



Ag-AgCl Reference Electrode



Zinc Reference Electrode



Auto Control Unit (ACU)



Low potential Al-alloy sacrificial anode



Active Shaft Grounding system

SANDEEP METALCRAFT PVT LTD

Company Name	: Sandeep Metalcraft Pvt Ltd	
Contact Person	: Shyam Agrawal	
Designation	: Managing Director	
Address	: D-16, MIDC Industrial Area	
City	: Nagpur – 440 028	
Contact Number	: +91 7104 237878	Mobile: +91 9823064146
Fax	: +91 7104 236860	
Email	: info@sandeepmetalcraft.com	
Website	: www.sandeepmetalcraft.com	

Sandeep Metalcraft Pvt Ltd., an ISO 9001-2000 certified engineering company, based at Nagpur, is engaged in the manufacture of various types of fuzes for mortar bombs, artillery shells, anti-aircraft ammunition, components and assemblies of small arms and is one of the leading suppliers to Ministry of Defence, Government of India, for various applications.

Contribution to DRDO Projects/Programs

- Safety arming mechanism for A/P Mine
- Bomblet body
- Impact fuze



SANGAMITRA ENGINEERING ASSOCIATES

Company Name : Sangamitra Engineering Associates
Contact Person : M Ravi Kumar
Designation : Proprietor
Address : D No 49-12-15, 1st Floor, Lalithanagar
City : Visakhapatnam – 530 016
Contact Number : +91 891 2721817 Mobile: +91 9440356118
Fax : +91 891 2780086
E-mail : ravi_sangu@sify.com

Sangamitra Engineering Associates have been associated with DRDO engineers in noise reduction generated by rotating drives. For noise reduction various types of hoods are being developed.

Contribution to DRDO Projects/Programs

- Silencers : For installation in engine rooms of ships



SAVAN ANCILLARIES

Company Name	: Savan Ancillaries	
Contact Person	: Sunil Shivapurkar	Nitin Joshi
Designation	: Partner	
Address	: J-447, MIDC, Bhosari	
City	: Pune – 411 026	
Contact Number	: +91 20 32314327, 65342796	Mobile: +91 9921737160,
	savanancillaries@gmail.com	9922081120
Fax	: +91 20 46768707	

Contribution to DRDO Projects/Programs

- Hood Transfer Mechanism
Hood mounted on a rail wagon is required to be shifted to another wagon during operations.
- RPV Recovery System
To recover the RPV after flying at remote places.
- Aluminum Shuttle for Hydro-Pneumatic
Aluminum lightweight shuttle mounted on HP launcher for carrying & launching RPV was designed.
- Auxiliary Gear Boxes for BLT-72
Bridge Laying Tank T-72, is having a hydraulically operated system mounted on the PTO of the tank to launch the bridge
- Snow Nets for avalanche control
- Flail Mechanism for CMF 72



SERENDIP ASSOCIATES PRIVATE LIMITED

Company Name	: Serendip Associates Private Limited	
Contact Person	: Ramesh K L	
Designation	: Director	
Address	: #B-111, 3rd stage, PIA	
City	: Bangalore – 560 058	
Contact Number	: +91 80 28362505, 28362692	Mobile : +91 9845044783
Fax	: +91 80 41171579	
Email	: serendipassociates@gmail.com	
Website	: www.serendipshelters.com	

The company is specialised in the design and manufacture of shelter and covers for missiles and Radar projects of DRDO.

Contribution to DRDO Projects/Programs

- All Welded Shelters
Welded Shelters exhibit the highest and consistent levels of EMI/EMP shielding.
- EMI/EMP Hardened Shelters
For NBC warfare applications, shielding levels of 80 dB+ up to 18 GHz frequencies
- Blast/ Ballistic Shelters
Shelters have been successfully subjected to Blast Over Pressure tests upto 10 PSI.
- Conshels



SHEETAL WIRELESS TECHNOLOGIES PVT LTD

Company Name	Sheetal Wireless Technologies Pvt Ltd		
Contact Person	: Manish V Are		
Designation	: Managing Director		
Address	: Flat No 17, Sheshadri Society, Plot No 1, Rambag Colony Opp Rupee Cooperative Bank, Paud Road		
City	: Pune – 411 038		
Contact Number	: +91 20 25467179, 25422941, 25453950, 64007732	Mobile:	+91 9822004313
Fax	: +91 20 25467179, 25422941, 25453950		
E-mail	: manish@sheetalwireless.com	sheetalwireless@vsnl.net	
Website	: www.sheetalwireless.net		

Sheetal Wireless has made significant contribution towards development and research efforts of DRDO laboratories. Sheetal Wireless has supplied various types of Data Radios and Radio Modems for data communication towards different projects of these units. Sheetal Wireless has also supplied Walkie Talkies, Base Stations and Repeaters to enable voice communication support to the DRDO teams carrying out research in the field.

Contribution to DRDO Projects/Programs

- Remote control of unmanned combat vehicle
- Communication of data from mobile battle tanks to stationery field commander position
- Bomb detection and disposal robots
- Communication of weather parameters to flying aircrafts

SHIVA ENGINEERING WORKS

Company Name	: Shiva Engineering Works	
Contract Person	: KK Modi	
Designation	: Partner	
Address	: 2, India Exchange Place	
City	: Kolkata – 700 001	
Contact Number	: +91 33 22301315, 22301319 22301330	Mobile: +91 9830024652
Fax	: +91 33 22307383	
E-mail	: shew@theshivagroup.com	
Website	: www.theshivagroup.com	

Shiva Engineering has been engaged in missile projects being perused at various DRDO laboratories and have contributed significantly in achieving milestones.

Contribution to DRDO Projects/Programs

- Design, fabrication, erection & commissioning of Electrically Operated Mobile Shelters for Pre Launch preparations for Agni (SF&D), Prithvi (AD), Akash, Trishul, PJ-10, K-15 Programs
- Mechanised Assembler on Trailer with prime mover-cum-transporter
- Stage assembler
- Dummy articles
- Jet deflector
- Cast setup
- Handling equipment for Agni (SF&D) Program
- Tube assembly fixture for K-15 Program
- Warhead container for Prithvi
- 100 T deck loading barge
- High speed passenger boat
- Water Purification Equipment - 13500 l/hr Capacity (skid mounted),
- Mine Layer Mechanical Equipment, Membrane Surfacing Portable Helipad
- Thermally Insulated Light Portable Shelters for workshop and craftsman for mountain and plain areas
- Portable Roof & Shelters for defence posts in frontier/border areas
- Light Weight Crevasse Crossing Bridges & Ladders for high altitude
- Mat Ground Surfacing for Class-12, Class-30, Class-50 & Class-70 type vehicles.
- NBC Integrated Field Shelter (IFS)
- Light Weight Short Span Steel Bridging System



MOBILE SHELTER FOR TCI (PROJECT "AGNI")

SHRI AYYAPPA ENTERPRISES

Company Name : Shri Ayyappa Enterprises
 Contact Person : S Sankaran
 Designation : Manager
 Address : No 6, Green Building,
 Rukmani Kalyana Mandapam,
 MTH Road MANNURPET
 City : Chennai – 600 050
 Contact Number : +91 44 26250889 Mobile: +91 9381053103
 Fax : +91 44 26250500
 Email : shriayyappaenterprises@yahoo.com

Shri Ayyappa Enterprises has been developing and supplying test rigs and associated instrumentation for testing aircraft components such as gear boxes.

Contribution to DRDO Projects/Programs

- Vibration Test Rig for aircraft gear box
- Provision of Cycle Test Rig for PTO
- Static Radial Load Test Rig for aircraft gear box
- TSS Mounting Bracket augmentation and integration of cycle test assy in CPTR
- Static Torque Test Stand for PTO shaft testing with suitable instrumentation
- Static Thrust Test Rig with instrumentation
- Fabrication of Step-up Gear Box
- Aircraft Gear Box container
- Containerisation of Ammunition to DRG No: TSK 2143



Static Radial Load Rig for Aircraft Gear Box Bearing



Cycle Test Rig for Aircraft Gear Box P.T.O Shaft

SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

Company Name : Shiram Institute for Industrial Research
Contact Person : RK Diwan
Designation : Sr Asst Director & Chief
Addresses : 19, University Road
City : Delhi – 110 007
Contact Number : +91 11 27667267
Email : rkdiwan@shriraminstitute.org
Website : www.shriraminstitute.org

The Institute has successfully developed a lead free X-ray resistant polymeric composition by incorporation of radiopaque compound in polymer resin. Moreover, the technology for manufacture of lead free gloves has also been successfully developed using dip-molding techniques. X-ray shielding of SRI developed lead free composition and gloves were carried out at 30, 40 & 50 KVP.

Contribution to DRDO Projects/Programs

- Light weight X-ray resistant protective garments

SIKA INTERPLANT SYSTEMS LIMITED

Company Name	: Sika Interplant Systems Limited	
Contact Person	: Dinesh Balaraj	
Designation	: General Manager	
Address	: No 3, Gangadhara Chetty Road	
City	: Bangalore – 560 042	
Contact Number	: +91 80 25599144	Mobile: +91 9845312418
Fax	: +91 80 25599501	
Email	: dinesh.balaraj@sikaglobal.com, sika@sikaglobal.com	
Website	: www.sikaglobal.com	

Sika, an ISO 9001:2000 certified company offers design, development, precision manufacturing, assembly, certification, supply, integration of systems and implementation of projects. Sika is a design approved firm by Center for Military & Airworthiness Certification Authorities, (CEMILAC), Ministry of Defence, Government of India. Sika holds industrial license for defence equipment. Sika has a dedicated team for developing air-borne systems, having experience in design, project management, documentation, quality assurance, manufacturing, integration & testing

Contribution to DRDO Projects/Programs

Some of the projects executed for DRDO are:

- Airborne winch systems for MIHIR project
- Upper funnel for MIHIR project
- Airborne winch system for LFDS project
- Intermediate structure for LFDS project
- Funnel assembly for LFDS project
- Transmitter ATR for LFDS project
- Soft clearance including documentation
- Environmental testing, ESS testing
- Test rig and obtaining soft clearance
- Manufacturing, assembly and testing of reformer and vaporizer assembly
- Fasteners for aerospace application



SITAR

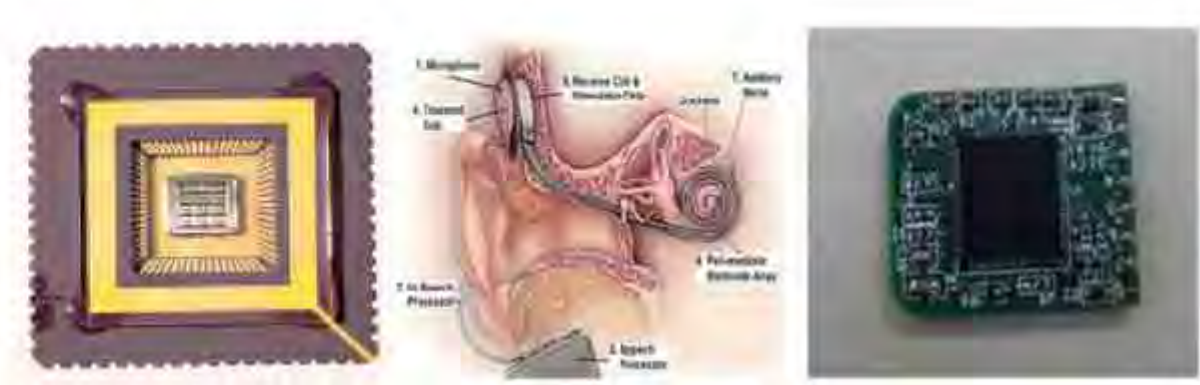
Company Name : SITAR
 Contact Person : Dr KSRC Murthy
 Designation : Dy. General Manager
 Address : Post Box-1640, Doorvani Nagar PO
 City : Bengaluru - 560016
 Contact Number : 080-26867670
 Fax : 080-25653590

Core Competency

VLSI / MEMS Strategic Component Fabrication

Contribution to DRDO Projects/Programs

- o Fabrication of Implantable Electronic ASICs
- o Fabrication of RNG ASIC
- o RNG ASIC(1-Micron)
- o Packing of Cochlear Implantable ASIC Dies
- o Fabrication & Packaging /dicing of RF frontend Components, PLL, ROIC ASICs
- o Cochlear Implant ASIC
- o Fabrication of Implantable Electronics ASICs-II
- o RNG ASIC
- o Fabrication of CBIA & RF Frontend Components ASIC
- o Fabrication and packaging of Physiological Monitoring & PLL ASIC
- o Cochlear Implantable Electronics



SKL (INDIA) PVT LTD

Company Name	: SKL (India) Pvt Ltd	
Contact Person	: KM Bhatia	Ravi Bhatia
Designation	: Managing Director	Director
Address	: C-2117, Oberoi Garden Estates, Chandivali, Andheri (E)	
City	: Mumbai – 400 072	
Contact Number	: +91 22 28476652	Mobile: +91 9819008947
Fax	: +91 22 28476649	
Email	: sklmumbai@rediffmail.com	info@sklindia.com
Website	: www.sklindia.com	

SKL are the authorised agent in India for Hatz Germany and make air cooled diesel engines and diesel generating sets, which are very compact in size, light weight and suitable for extreme climatic conditions of +55oC to -30oC. Executing orders, through BEL-Bangalore for other DRDO projects to supply 18.5 KVA and 23 KVA diesel generating sets with Hatz air cooled encapsulated diesel engines.

Contribution to DRDO Projects/Programs

- Diesel Generating Sets (7.5 KVA)

With encapsulated Hatz Diesel engine 1D81C to reduce the sound level



Diesel Generating Set



SKM TECHNOLOGIES

Company Name : SKM Technologies
 Contact Person : B Krishna Rao
 Designation : Managing Director
 Address : D#5, Road No. 7, IDA Kukatpally, Gandhi Nagar
 City : Hyderabad - 500 037
 Contact Number : +91 40 23420110
 Fax : +91 40 23720294
 Email : skm.technologies@yahoo.com

SKM Technologies is manufacturing aerospace components and high precision mechanical components for exports and Indian industries. SKM is accredited with AS 9100B certificate from KEMA, Netherlands and SKM is the first Company in Andhra Pradesh to get AS 9100B certification. (Based on and including ISO 9001:2000)

The company is having 25 high speed and high accuracy CNC machines of reputed makes. The company is also equipped with latest inspection equipment like high accuracy CMM of Zeiss make.

Contribution to DRDO Projects/Programs

- High precision machined components



SMPP PVT LTD

Company Name : SMPP Pvt Ltd
Address : M-17 NDSE Part-II
City : New Delhi-110049
Contact Number : +91 512 2315151 / 91 9415129341

SMPP Pvt Ltd has its expertise in developing Bullet Proof Jacket.

Contribution to DRDO Projects/Programs

The firm has got the technical know how and manufacturing of bullet Proof Jackets.



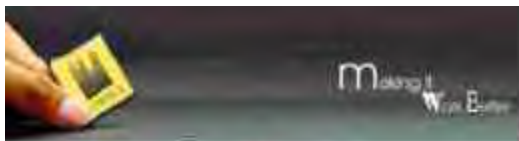
SOBHA APPLIED DSP (P) LTD

Company Name	: Sobha Applied DSP (P) Ltd	
Contact Person	: R Ramakrishnan	
Designation	: Director	
Address	: T2/12, Dr VSI Estate, Thiruvanmiyur	
City	: Chennai – 600 041	
Contact Number	: +91 44 64563627	Mobile: +91 9841037663
Fax	: +91 44 26176436	
Email	: ramki@applieddsp.com	
Website	: www.applieddsp.com	

Sobha Applied DSP (P) Ltd (SADSP) is a Joint Venture between Sobha Renaissance Information Technology Pvt Ltd and Applied Digital Signal Processing Pvt Ltd. SADSP is a technology application group that applies latest technologies to market, through its research and application knowledge. It operates in multi-disciplinary domains of communication, wireless, control system, networking, embedded systems and DSP. Led by a group of technocrats and researchers, SADSP offers high-end technology support in the form of technology license and consulting services that allow its clients to meet time to market needs in niche technological areas. SADSP has made significant contributions to Anurag project and has developed application hardware and system software for Anurag's 32-bit RISC Processor, SOC-V1 and DSP, ANUDSP.

Contribution to DRDO Projects/Programs

- Handheld Terminal based on SOC-V1
- Plant Operator Data Entry Terminal



SPECTRUM INFOTECH PVT LTD

Company Name	: Spectrum Infotech Pvt Ltd	
Contact Person	: RR Raghavendra	
Designation	: Chief Executive	
Address	: 5, Victoria Road	
City	: Bangalore – 560 047	
Contact Number	: +91 80 25551739	Mobile: +91 9945029333
Fax	: +91 80 25546433	
Email	: raghavendra.rr@Intsec.com	
Website	: www.spectruminfotech.com	

Spectrum Infotech (A wholly owned subsidiary of Larsen & Toubro Limited) is a 13 year old company with a focus on development, engineering & manufacturing of embedded systems for real time applications primarily for the defence programs. It has more than 300 man-years of relevant R&D experience in advanced technologies spanning communications, radar data processing, display systems, simulators, control systems and test aids.

Contribution to DRDO Projects/Programs

- Environmental Control & Fuel Monitoring System of LCA
- Gun Stabilization Control System for MBT
- Suite of Video Cards for Display Systems of LCA
- Cockpit Interface Unit of LCA
- Electronic Position Simulator of Gunner's Main Sight for MBT
- Digital Brushless DC-Motor Controller
- Gimbal Control Electronics Unit
- Tele-operation on Tracked Platform Max IV Vehicle



SPINMET ENGINEERS PVT LTD

Company Name : Spinmet Engineers Pvt Ltd
Contact Person : GG Kaushik Gelli
Designation : Director
Address : Plot-16, Raghava Enclave-2
Transport Road, Karkhana
City : Secunderabad – 500 009
Contact Number : +91 40 27814215
Fax : +91 40 27814219
Email : spinmet@gmail.com
kaushik.gelli@gmail.com

Mobile: 9246585881

As a small scale industry, company is associated as development partners with various DRDO establishments and manufactures several high precision critical components like Shaped Charge.

Contribution to DRDO Projects/Programs

- Hollow Charge Liners for Main Charge and Precursor Charge
- High precision components for warhead assemblies for Nag, Konkur, Milan



SPJ EMBEDDED TECHNOLOGIES PVT LTD

Company Name	: SPJ Embedded Technologies Pvt Ltd
Contact Person	: Jivan B Katariya
Designation	: Director
Address	: 101, Beaver Grandeur, Baner Road, Above IDBI Bank,
City	: Pune – 411 045
Contact Number	: +91 20 27293002
Fax	: +91 20 27293003
Email	: spj@spjssystems.com, jivan.katariya@spjssystems.com
Website	: www.spjssystems.com

SPJ ETPL (Formerly SPJ Systems) has expertise in the field of embedded systems. The company has done various projects based on ARM9, FPGA, DSP, ARM7, Cortex, 8051, etc. Developed various systems for DRDO labs to suit their requirements and all these were designed, developed and manufactured in house.

Contribution to DRDO Projects/Programs

- ARM9 based SBC with embedded linux loaded
- ARM 7 based evaluation board
- Color LCD interface solutions with ARM9
- Wifi, GSM/GPRS
- Bluetooth
- Digital I/O board with on board
- FPGA, Ethernet interface



SBC9302 with display driver card, color LCD

SRI VENKATESHWARA MECH & ELEC ENGG INDUSTRIES

Company Name : Sri Venkateswara Mech & Elec Engg Industries
Contact Person : CSN Reddy
Designation : Managing Partner
Address : B-4, BHEL, AIE, RC Puran
City : Hyderabad – 502 032
Fax : +91 40 23026283
Email : svmeei@yahoo.com

Sri Venkateswara Mech & Elec. Engg. Industries are working with DRDO labs, engaged in developing various missile systems and contributed in designing missile components and assemblies.

Contribution to DRDO Projects/Programs

- Reaction Control System and Velocity Trimming Package for Agni-I
- III S1 and S2 Daisy Motors for Agni with 15CDV6
- Astra – Air Frames
- Propellant tanks
- Engine Thrust Frames and Gymbal joints for Prithvi
- Rivetted Air Frames for Akash
- Drop tanks 800-1200 litres

SRIJAN CONTROL DRIVES

Company Name : Srijan Control Drives
Contact Person : Deshpande Shailendra B
Designation : Partner
Address : IIIrd Floor, Sr No 54, Plot No 113,
Swami Vivekanand Industrial Estate,
Handewadi Road, Hadapsar
City : Pune – 411 028
Contact Number : +91 20 26970575, 26970415
Fax : +91 20 26970575
Email : srijan25@gmail.com

The company is engaged in the design, development and manufacture of control drives.

Contribution to DRDO Projects/Programs

- LA- 22 Motor
- SCD 28 - 4 HDNS Motor
- SCD 90 R - 4 HDNS Motor
- SCD - 50 - 8 FDA Motor
- SCD 40 Nm Motor
- SCD 35 Nm Motor
- DC Servo Motor with Reduction Gear Unit
- NT 45 A Torque Motor
- NT 60 E Torque Motor
- SCD 65 Housed Motor
- Linear Actuator Motor
- SCD - 28 - 50 HDAD Motor
- DCPM I Single Stage Planetary Gear Box + 10 Turn Pot
- Trim Actuator Motor
- Pedal Rudder Motor
- Azimuth Torque Motor
- Elevation Torque Motor

SSD POLYMERS

Company Name : SSD Polymers
Contact Person : PV Rao
Designation : General Manager
Address : Plot No C-4, APIE,
City : Machilipatnam – 521 002
Contact Number : +91 8672 250180 Mobile: +91 9848331692
Fax : +91 8672 222568
Email : ssdpolymers@hotmail.com

The company has developed EMI/EMC shielding products for the first time in India for various defence applications, associated either directly or indirectly (through PSUs) with various DRDO projects.

Contribution to DRDO Projects/Programs

- EMI/EMC shielding products
- EMI shielding bellow



STANDARD CASTINGS PVT LTD

Company Name	: Standard Castings Pvt Ltd	
Contact Person	: KK Manchanda	
Designation	: Managing Director	
Address	: B-89, Mayapuri Industrial Area, Phase-I, Rewari Line	
City	: Delhi – 110 064	
Contact Number	: +91 11 28116380, 28116935	Mobile: +91 9818475756
Fax	: +91 11 28115881	
Email	: stancast@vsnl.com;stancast@airtelmail.in	
Website	: www.standardcastings.com	

Standard Castings (SCPL) have two manufacturing units, one at New Delhi and another at Gurgaon. SCPL is working for DRDO since 1978 and have developed Trailer Fire Pump, and Water Cannon. The jobs includes physical/chemical testing of the material, ultrasonic testing, DPT of weld joints, radiography during fabrication. Critical components are stress relieved. After fabrication, load testing is carried out and thereafter shot blasting, metalising and painting is done before despatch. Apart from above, SCPL manufactures Aircraft Refuellers, Mechanical Runway Sweepers, Trailers, Fire Tenders & Crash Fire Tenders, for Ministry of Defence.

Contribution to DRDO Projects/Programs

- TCT and HTC Wagons for Agni Missiles
- Tilting Mechanism
- Water Cannon



TCT



Water Cannon

STEEL AND INDUSTRIAL FORGINGS LTD

Company Name	: Steel and Industrial Forgings Ltd	
Contact Person	: Cdr (Retd) K Shamsudhin	
Designation	: Managing Director	
Address	: Athani	
City	: Thrissur – 680 771	
Contact Number	: +91 80 25599144	Mobile: +91 9847240746
Fax	: +91 487 2201753	
Email	: siflc@sancharnet.in	
Website	: www.siflindia.com	

Steel and Industrial Forgings Ltd (SIFL), a Public sector firm – fully owned by Govt of Kerala, is a leading manufacturer of forging in the country since 1984. Apart from DRDO, SIFL supplies forgings to HAL, ISRO, Railways, Defence, BEML, BHEL, L&T, and Caterpillar, etc. SIFL's product mix consists of forgings with carbon steel, alloy steel, SS, Aluminium alloy, Super alloys, Maraging steel, Titanium alloys, etc. SIFL has so far developed and supplied nine different types of forgings to DRDO, for their prestigious LCA-Kaveri Engine Project.

Contribution to DRDO Projects/Programs

- Forgings – aero engine
- Housing No 2 Bearing (GTM-Ti 64-Titanium Alloy – 25.5 kg)
- Stub Shaft-II LPC (GTM-Ti 64 -Titanium Alloy – 37.5 kg)
- Shaft Stage-II LPC (GTM-Ti 64 -Titanium Alloy – 46 kg)
- Inlet Casing (GTM-Ti 64-Titanium Alloy – 37.5 kg)
- Shaft II Stage Fan (GTM-Ti 64-Titanium Alloy – 30 kg)
- Housing No 2 Bearing (GTM-SU-718-Super Alloy – 43.5 kg)
- Housing No 5 Bearing (GTM-SU-718-Super Alloy – 62.5 kg)
- Rear Mount (GTM-SU-718-Super Alloy – 58 kg)
- Rear Guide Mount (GTM-SU-718-Super Alloy – 58 kg).



SUPARNA CHEMICALS PVT LTD

Company Name : Suparna Chemicals Pvt Ltd
Address : 54 - A, Mittal Tower, 'A' Block, 5th Floor, Nariman Point
City : Mumbai - 400021
Contact Number : +91 22 22027446, 22834571
Fax : +91 22 22830212
Email : suparna@bom5.vsnl.net.in
Website : www.bitmapper.com

Suparna Chemicals Pvt Ltd has developed Antifreeze coolants DAFC 30, DAFC 50 and Recoil fluid DAFC 60

Contribution to DRDO Projects/Programs

The firm has got the technical know how of coolants DAFC 30, DAFC 50 & DAFC 60 and manufacturing it.



SURYA AEROTECH INDUSTRIES

Company Name : Surya Aerotech Industries
Address : Plot No. 138, Sector 3, IMT Manesar
City : Gurgaon- 122 050
Contact Number : +91 124 2291120
Fax : +91 124 2290642

Surya Aerotech Industries has its expertise in Fabrication, Assembly, Testing of High Pressure Oxygen System

Contribution to DRDO Projects/Programs

- High Pressure Oxygen Systems
- CFF Oxygen Systems



SUZAN INDUSTRIES MUMBAI

Company Name : Suzan Industries Mumbai
Contact Person : D.P.Mishra
Designation : Marketing Manager
Address : Bld. No. 1 Plot No. 142 Behind Blue Chip Industrial Estate, Vasai (East)
City : Thane - 401208
Contact Number : +91 250 2456541/42/43
Fax : +91 250 2456746
E-mail : sujan.industries@gmail.com
Website :

Suzan Industries has developed:

- Rubber products and seals
- Development of NBC Pad of T-72 & T-90 Tank

Contribution to DRDO Projects/Programs

Processing and manufacturing of test samples and prototypes as per design and material supplied by DMSRDE Kanpur



SYNOPSYS PVT LTD

Company Name : Synopsys Pvt Ltd, Bangalore
Contact Person : Manoj Gandhi
Designation : SVP & GM
Address : "RMZ Infinity", Tower A, 3rd Floor, Muncipal #3
Benniganahalli, Old Madras Road,
City : Bangalore
Contact Number : +91 80 40188000 Mobile : +91 9845237337
Fax : +91 80 30523800
Email : srinivas.macha@synopsys.com
Website : www.synopsys.com

Synopsys Pvt Ltd has developed:

- EDATOOLS for ASIC Design
- PCB Designs and Services
- EDAIC Simulator and Layout tools.

Contribution to DRDO Projects/Programs

EDA Tools and Data Centre Establishment.

SYSTEM CONTROLS

Company Name	: System Controls
Contact Person	: Mr Xavier / Mr. Kanaka Raju
Address	: 73 - B, Keonics Industrial Estate, Electronic City
City	: BANGALORE - Pin 560100
Contact Number	: 080-2852 2297/ 2852 3587
Fax	: 080-2852 3507
Email	: marketing@system-controls.com
Website	: www.system-controls.com

System Controls has developed:

- Pan tilt assemblies.
- Pan-tilt platform for coastal observation Design & Development of 2-axis gimbal Platform
- Motion control
- Command -control system
- System Integration Project - LORDS (Laser Ordnance Disposal System).

Contribution to DRDO Projects/Programs

System Controls has developed 2 – Axis servo control gimbal platform, Command Control System, Beam Control Electronics and carried-out laser support systems integration onto Tata-LSV platform.



2 – Axis Gimbal Platform



Vehicle integration of laser support systems for LORDS



On-board Command Control System

TATA GROUP OF COMPANIES

Company Name	:	TATA Group of Companies
Contact Person	:	Cyrus Pallonji Mistry
Designation	:	Chairman, TATA Group
Address	:	Bombay House, 24, Homi Mody Street Fort
City	:	Mumbai 400 001
Website	:	www.tata.com

The Tata Group's involvement in Defence dates back to the World Wars and the Group has participated in major Indian defence programs, it also consistently and successfully executed large-and-complex assignments for DRDO through its various subsidiary companies such as TATA Power Strategic Electronic Division (TPSEP), TATA Advanced Systems (TAS), TATA Advanced Materials Ltd (TAML), across India and the world. They have established a strong working relationship with various DRDO Establishments like ADE, GTRE, NAL, ADA.

The Group has made significant contributions to the Integrated Guided Missile Development Program through their work on the Akaash Launcher, Pinaka Rocket System and in the areas of C4I battle management software and ruggedisation of defence related equipment.



THE TATA POWER COMPANY LTD - STRATEGIC ELECTRONICS DIVISION

Company Name	:	TATA Power company Ltd Strategic Electronics Division
Contact Person	:	Mr. Chetan J Shetty
Designation	:	Program Director (Military Subsystem)
Address	:	42-43 Electronic City Hosur Road
City	:	Bangalore
Contact Number	:	+91 80 6785 9931
Fax	:	+91 80 6785 9901
Email	:	cjshetty@tatapowersed.com
Website	:	www.tatapowersed.com

Since the early seventies, The Tata Power Company Limited, through its Strategic Electronics Division (SED), has been a leading private sector player in indigenous design, development, production and supply of defence systems. For close to four decades, Tata Power SED has partnered the DRDO with development and supply of state-of-the-art sub-systems and has now evolved into a Systems Integrator for programs of national importance such as the Pinaka MBRL System, Launchers for the Akash (Air Force and Army) Programs, Samyukta Electronic Warfare Program, Command & Control Systems for air defence and Naval Combat.

In recognition of its pioneering capabilities in design, development, Manufacturing and system integration, Tata Power SED was nominated by MoD as a Major Work Centre for the Samyukta Electronic Warfare Program under the aegis of DRDO.

Contribution to DRDO Projects/Programs

- Multi-Barrel Rocket Launcher - Pinaka:
- Akash Air Force Launcher
- Mobile Missile Launcher Akash for Army
- Upgraded Akash Launcher on T-72 Tank
- Samyukta: Army EW Project
- Antenna Retraction/Hoist & Servo Systems
- Retrofitment of 40 mm L70 Air Defence Gun
- Tadpole Sonobuoys – Underwater detection of submarines
- Mission Computer, Display Processor and Radar Computer for Sukhoi Su-30 Aircraft
- Mission Computer
- Radar Computer
- Airborne Computers
- Sub-systems and modules for Lakshya PTA program
- Gimballed Payload Assembly and Servo Electronic System for the Nishant UAV program
- Fire Control Computer
- FCC Mk-I- 124 Nos supplied.
- FCC Mk-II is under field trial.



Design Areas :-

Structural; Control systems; Power systems; Servo drives; Single board computer; Real-Time operating system; Software development; System Integration; Environmental testing; Sub-systems & System level testing; Product support after warranty.

Pinaka Launcher and Battery Command Post (BCP)



TATA Launcher

TATA ADVANCED SYSTEMS

Company Name : TATA Advanced Systems
 Contact Person : Sanjay Kapur
 Designation : General Manager
 Address : Thaper House, Western Wing, 124, Janpath
 City : New Delhi – 110 001
 Contact Number : +91 11 66222730, 64656600 Mobile: +91 9212459894
 Fax : +91 11 23341585
 Email : skapur@TATA.com
 Website : www.tataadvancedsystems.com

Contribution to DRDO Projects/Programs

Keeping in mind the nature and the evolution path of the battlefield, TATA Advanced Systems is focusing on the following areas:

- Network centric warfare
- Precision technologies missiles, seekers and sensors
- Surveillance technologies
- UAVs: All ranges and payloads
- Radars
- Aero-structures and aerospace
- Electronic and information warfare
- Homeland security and disaster management



TATA ADVANCED MATERIALS LIMITED

Company Name	: TATA Advanced Materials	
Contact Person	: V S Avadhani	
Designation	: Vice President - Armour and Defence Business Unit	
Address	: No. 10, Jigani Industrial Area, Jigani	
City	: Bangalore – 562 106	
Contact Number	: +91 80 66955635	Mobile: +91 9916138408
Email	: dev@tamlindia.com	
Website	: www.tamlindia.com	

Tata Advanced Materials Limited (TAML) is a pioneer in the manufacture of lightweight composite material based personal armour products in India. TAML was conferred with special recognition by Ministry of Defence, Government of India, for having successfully indigenized the ballistic jacket in 1994.

TAML is also one of the strategic suppliers and in some cases, the proprietary article supplier to Ministry of Defence for various products including Strategic Missile Containers, Rocket Launcher Tubes, various composite armour products for the Indian MBT project, etc. TAML is leveraging group synergies and currently partnering with TCS and other TATA Group companies in bidding for UAV program of the ADE for the Ministry of Defence.

In 2006, TAML has entered in the armoured vehicle segment and now offers Level III & IV armour solutions for a diverse platform of vehicles from SUVs/light vehicles to buses.

Contribution to DRDO Projects/Programs

- Bullet Proof Helmets
(Pasgt- USA Type) 1.3 kg and 1.5 kg
- Missile transportation containers



Missile transportation
Containers



TATA CONSULTANCY SERVICES

Company Name : TATA Consultancy Services
Contact Person : R Sureshababu
Address : Abhilash Building, Plot no. 96 Ep-IP Industrial Area
Whitefield Road
City : Bangalore-560066
Contact Number : +91 80 6725 8400
Fax : +91 80 2841 3420

Design and Development of Avionics Software, Software Testing, Flight data Analysis

Provider of IT services

Contribution to DRDO Projects/Programs

TCS has been associated with DARE in MiG-27 Upgrade project. They have developed several software modules in that project. They have provided support for field trials and flight data Analysis. As a part of IV&V Team they have done independent verification and validation of software developed by DARE. Currently, they are involved in the maintenance of CAC/ BCAC Software and AVDHANI Soc.



TATA MOTORS LIMITED

Company Name	: Tata Motors Limited
Contact Person	: Vemon Noronha
Address	: World Trade Centre, 26th Floor, Centre 1, Cuffe Parade
City	: Mumbai – 400001
Contact Number	: +91 22 66561825
Fax	: +91 22 66360408
Email	: defencesolutions@tatamotors.com
Website	: www.tatamotors.com

Tata Motors has unmatched strengths in manufacturing and product development that enables the company to guarantee reliable and effective tactical and transport solutions to meet the ever-changing requirements of modern defence.

Contribution to DRDO Projects/Programs

- Light Specialist Vehicle (LSV)
- Troop carriers / load Carriers (GS role)
- Armoured Safari
- Armoured Sumo
- Light Armoured Troop Carrier
- Field Artillery Tractors (FAT)
- Support Vehicles
 - Recovery vehicle
 - Truck fire fighter
- Riot Control Vehicle - Vajra



Troop carrier & load carriers

TEKNOSARUS EMBEDDED SYSTEM PVT LTD

Company Name : Teknosarus Embedded System Pvt Ltd
Contact Person : Ganesh Kumar Koppiseti
Designation : Managing Director
Address : 301, Gulmohar Block, Amrutha Vallee Apts
Road No.12, Banjara Hills
City : Hyderabad-500 034
Contact Number : +91 40 2331 6039
Fax : +91 40 2331 2663
Email : info@teknosarus.com
Website : www.teknosarus.com

Teknosarus Embedded System Pvt Ltd involved in Design & Development of electronics systems for DRDO labs .

Contribution to DRDO Projects/Programs

- (a) Synthetic Target Card (STC)
- (b) MD-STC
- (c) Target-STC
- (d) 16 Channel DAS card
- (e) Memory Patch Card



Developed high speed programmable devices and signal processing modules for torpedoes and decoys

TEXOL ENGINEERING PVT LTD

Company Name : TEXOL Engineering Pvt Ltd
Contact Person : Mangesh Pitambare
Designation : Vice President - Technical
Address : Survey No. 321, Patil Nagar, Opp Mumbai-Bangalore
by-pass Highway, Bawdhan
City : Pune 411021
Contact Number : +91 20 66541900
Fax : +91 20 66541923
Email : mangesh@texol.in
Website : <http://www.texol.in>

Texol Engineering Pvt Ltd expertise in system engineering and construction, plant erection, commissioning for pilot scale, small and medium scale chemical plants. The company has executed large number of projects for oil major, pharma industries and general process engineering firms. They have executed a number of projects both in India and abroad.

Contribution to DRDO Projects/Programs

Development of instrumented hydrogen generator.



THE DELTA MOTOR CO

Company Name : The Delta Motor Co
 Contact Person : Nikil Rangadas
 Designation : CEO
 Address : 6-1-135, Padmaraonagar
 City : Secunderabad – 500 025
 Contact Number : +91 40 27506259 Mobile:+91 9848027314
 Fax : +91 40 27507044
 Email : groupedelta@rediffmail.com

The Delta Motors are designers and manufacturers of various electro-mechanical systems for aerospace applications. They have developed various DC actuators and motors used in airborne and ground systems, ranging from BLDC, brushed motor based rotary and linear actuators for various platforms used in aircraft, missiles and launchers.

Contribution to DRDO Projects/Programs

- Electro-mechanical systems
- Multi and single axis motion platforms
- Antenna positioners
- Microwave testing system



L/U Cluster (Navy)



Two Axes LI Scanner (N-LI)

THERMAX LTD

Company Name	:	Thermax Ltd
Contact Person	:	MS Unnikrishnan
Designation	:	MD
Address	:	D-13, MIDC, Industrial Area, R.D. Aga Road, Chinchwad
City	:	Pune 411 019
Contact Number	:	+91 20 2747 5941- 42
Fax	:	+91 20 2747 2049
Email	:	vishal.mehra@thermaxindia.com
Website	:	www.thermaxindia.com

Thermax Ltd is a leader in designing & manufacturing of Boilers, thermal recovery systems, Heating-cooling, Power Generation, Renewable energy, environment systems, Chemicals etc.

Contribution to DRDO Projects/Programs

Development of fuel cell based underwater propulsion power system
3KW & 9kw Phosphoric acid Fuel cell (PAFC) marine qualified systems



THOTHAKA TECHNOLOGIES PRIVATE LIMITED

Company Name : Thothaka Technologies Private Limited
Contact Person : S Lakshmi Mohan
Designation : Director
Address : Plot No.207, Road No.27, Sector-3, Defense colony, Sainikpuri
City : Secunderabad - 500094
Contact Number : +91 40 64606862
Fax : +91 40 27110112

Core Competency

Board Design & Development, Firmware Development

Contribution to DRDO Projects/Programs

- Data Communication and Storage Device Based on SoC-VI
- Controller Board using ANUCIA
- Test Board for T1 Processor



THRIKASA TECHNOLOGIES

Company Name : Thrikasa Technologies
Contact Person : MS Satyasai
Designation : Technical Director
Address : 3-5-874/6/5, Hyderguda
City : Hyderabad- 500029
Contact Number : +91 40 2326 0434
Fax : +91 40 2322 1045
Email : support@thrikasa.in
Website : www.thrikasa.in

Thrikasa Technologies has been providing Ruggedized solutions in open loop and closed loop cooling systems for electronic enclosures

- Air cooled electronic enclosures
- Conduction cooled Hermetically Sealed Units (HSUs)

Contribution to DRDO Projects/Programs

Developed processing cabinets, power amplifier cabinets and ruggedized signal conditioning units for submarine sonar systems



TIL LIMITED

Company Name	: TIL Limited	
Contact Person	: Pinaki Niyogy	
Designation	: General Manager	
Address	: 517, BT Road	
City	: Kolkata – 700 058	
Contact Number	: +91 33 25230296	Mobile: +91 9748738515
Fax	: +91 33 25532546	
Email	: pinaki.niyogy@tilindia.com	
Website	: www.tilindia.in	

TIL Limited provides technology intensive solutions in the areas of material handling, construction and mining, and power systems. The annual group turnover exceeds Rs 1000 Crores. Mobile Cranes of capacities ranging from 10 to 75 T and container handling Reach Stackers are manufactured at the Kolkata factory of Material Handling Solutions (MHS) group. Indian Defence has the largest fleet of TIL manufactured Mobile Cranes. TIL has a long association with DRDO dating back to 1997.

Contribution to DRDO Projects/Programs

- Extra Long Multi Axle Transporter. Loading System for Pinaka missile
- Full Slewing Crane of 16 MT capacity mounted on Tatra chassis for handling Prithvi missile
- Mobile Mast Antenna and Device for antenna transfer
- Tilting System including mechanism, hydraulics, controller for Road Mobile Launcher for Agni-I missile
- The Amphibious Floating Bridge and Ferry System
- Truck mounted Articulating Crane for lifting modular bridge sections
- Counter Mine Flail System mounted on T-72 battle tank



The Amphibious Floating Bridge and Ferry System



The Counter Mine Flail System

TRACTOR ENGINEERS LIMITED

Company Name	: Tractor Engineers Limited	
Contact Person	: N Kannan/Atul Saxena	
Designation	: Head (Mktg)/DGM (Mktg)	
Address	: L&T Campus, Gate No 6, Saki Vihar Road, Powai	
City	: Mumbai – 400 072	
Contact Number	: +91 22 67051536, 67052487	Mobile: +91 9819024491
Fax	: +91 22 67051175, 67051666	
Email	: nk-tng@tengl.ltindia.com, as-tng@tengl.ltindia.com	
Website	: www.tenglindia.com	

Tractor Engineers Ltd a wholly owned subsidiary of Larsen and Toubro Ltd, is providing support to DRDO labs in developing crucial parts of main battle tanks such as MBT Arjun. Besides, the company is also engaged in reclaiming old tracks of tanks.

Contribution to DRDO Projects/Programs

- Support Rollers
- Inarm Suspension
- Tracks
- S'Louvers
- Portal Plate
- Hydrogas Suspension

TRATEC ENGINEERS PVT LTD

Company Name	:	Tratec Engineers Pvt Ltd
Contact Person	:	M A Thomas
Designation	:	Manager
Address	:	440, Kailash Tower II East of Kailash
City	:	New Delhi, India
Factory Address	:	Gurgaon (Haryana), India
Contact Number	:	+91 124 226 7371 / 2
Fax	:	+91 124 226 7070
Email	:	tratec@tratec.in
Website	:	www.tratec.in

Core Competencies:

Tratec can take up design, development, manufacture of all types of Standard Trailers, Special application customized Trailers as well as other specialized Heavy Fabrication jobs or systems requiring expertise in Hydraulics, Mechanics, structural engineering or integration thereof. TRATEC has to its credit the pioneering role of indigenously developing and introducing high end "Hydraulic Modular Trailers" to the Indian Transportation scene.

System and product for which partner with ADRDE:

Winch and mooring system

Contribution to DRDO Projects/Programs

The supply order for which and mooring system for medium size of Aerostat has been placed to M/S Tratec. For ADRDE it is first order, however the firm has done number of product for various DRDO labs. Some of their facilities and capabilities are follows:

TRATEC have built up complete infrastructure consisting of plant, machinery, equipment, as well as technical, trained and experienced manpower and the vendor base. In house expertise is available in the fields of Design, Heavy Steel Fabrication, Mechanics, Hydraulics, Pneumatics and integration thereof. We have independent teams of trained personnel fully geared up for Design, Development, Production and Service. There is maximum stress on following established and accepted production and quality control procedures throughout the operation of the organization to ensure that we deliver superior, high quality and dependable products.

TRIBOLOGY INDIA LTD

Company Name	: Tribology India Ltd, Pune	Tribology India Ltd, Chennai
Contact Person	: T Raju Dorai	Umashankar
Designation	: Branch Incharge	DGM-HO
Address	: J-380, MIDC, Bhosari,	Padi
City	: Pune – 411 026	Chennai – 600 050
Contact Number	: +91 20 46768109	+91 44 42189941/2
Mobile	: +91 9371090928	+91 9382121079
Fax	: +91 20 27111596	+91 44 42189943
Email	: tribotvspune@eth.net	tilho@rediffmail.com
Website	: www.tribologyindia.com	

Tribology is a science of friction, wear and lubrication and attempts solution to problem of friction. Sundaram India Ltd of TVS group established Tribology India Ltd in 1984 in collaboration with HEF, France. The company approved by DRDO since 1984 and involved in projects at L&T, Hazira for dummy canister fitted to submarines with Triboseal G Air curing Surface Coats.

Contribution to DRDO Projects/Programs

- Xylan Coating

Used for both metallic and nonmetallic surfaces to get both lubrication and corrosion resistance.



TRIDENT INFOSOL PVT LTD

Company Name	: Trident Infosol Pvt Ltd
Contact Person	: ND Prashant
Designation	: Country Manager
Address	: #3, 2nd Cross, Raja Ram Mohan Roy Extn, ; Off KH Road (Double Road)
City	: Bangalore – 560 058
Contact Number	: +91 80 22245037
Fax	: +91 80 2229 1566
Email	: bangalore@tridentinfosol.com
Website	: www.tridentinfosol.com

Established during 2000, Trident Infosol's focus is towards providing systems level solutions to Indian aerospace and defence applications. The product solution includes Telemetry, C 4I Systems, Rugged VME/cPCI/PMC, PowerPC/Intel CPU boards, avionics interfaces and system packaging and software interface developments. With an extensive rugged product portfolio and support services, they are partners with DRDO and Indian Military.

Contribution to DRDO Projects/Programs

- VME based Checkout System for on-board flight computer
- Early warning & communication system
- Airborne/ship-borne Rugged Rack
- Airborne display
- Umbilical simulator
- Control system with display





TYCO ELECTRONICS CORPORATION INDIA (P) LTD

Company Name : Tyco Electronics Corporation India (P) Ltd
Contact Person : GS Arunsimha
Designation : Country Manager-Sales, Aerospace
Defence & Marine
Address : TE Park, 22 B, Doddenakundi Industrial Area
2nd Phase, Whitefield Road
City : Bangalore – 560 048
Contact Number : +91 80 28540800/Ext 116 Mobile: +91 9845178910
Fax : +91 80 28540826, 28540820
Email : aruns@tycoelectronics.com
Website : www.tycoelectronics.com

The Tyco Electronics Corporation India is associated with DRDO labs for past many years in development of connectors for use in radar and missile systems.

Contribution to DRDO Projects/Programs

- Intra Rack and Inter Rack Interconnection
Using Arinc connectors along with both copper and optical fiber terminations for Rohini/Revathi Radar systems
- Conduit harness design for LRSAM



ULTRA LIFE BATTERIES INDIA PRIVATE LIMITED

Company Name	:	Ultra life Batteries India Private Limited
Contact Person	:	N Manjunatha Rao
Designation	:	Director
Address	:	SHK Building, Varthur Main Road
City	:	Siddhapura, Bangalore- 560 066
Contact Number	:	+91 80 28524680
Fax	:	+91 80 28524690
Website	:	www.ultralife corporation.com

Ultralife batteries India Pvt Ltd is a specialized firm in manufacturing batteries made for Military/Space applications. The company has the capability to custom fabricate the battery as per the voltage/capacity need of the customer, apart from the standard batteries available in the market.

Contribution to DRDO Projects/Programs

The firm has met DRDO requirement of custom made batteries for Heated Gloves, Heated Shoe Insoles, Heated Jacket and for HAPO Automation Unit. The firm has capability to provide CC/Cv chargers for any battery.



Battery for Heated Gloves



Battery for Heated Jacket



Battery for HAPO Automation Unit

UNITED TOOLROOM & ENGINEERING WORKS

Company Name : United Toolroom & Engineering Works
Contact Person : Awtar Singh
Designation : Proprietor
Address : S No 47/30, Plot No 4, Aranyeshwar Road,
Off Pune-Satara Road
City : Pune – 411 009
Contact Number : +91 20 24229323 Mobile: +91 9370206141
Fax : +91 20 24229323
Email : gurpreet_gundev@rediffmail.com

United ToolRoom & Engineering Works are associated with DRDO laboratories since 1986 and has been contributing in the development of military hardware, i.e., tanks, missiles and bombs.

Contribution to DRDO Projects/Programs

- Gun and clamp assembly – MBT Arjun tank
- Gas distribution tube, various jigs, fixtures and gauges – Cluster bomb
- Retardar nozzle assembly and sequence housing assembly - Ankush
- Pashan bomb
- RDPS (Prithvi missile)
- Container PC and MC – Nag Project
- Fin cylinder assembly (stabilizer assembly) SS45
- Plug end closing assembly and centre sleeve assembly for SS45

UNIFLEX CABLES LTD

Company Name : Uniflex Cables Ltd
Contact Person : V K Bajaj
Designation : Manager
Address : 12/13, Jyothi Wire House, 23A, Shah Industrial Estate
Off Veera Desai Road, Andheri (W)
City : Mumbai - 400053
Contact Number : +91 22 2674 0001
Fax : +91 22 2674 0600
Email : corporate@uniflex.in
Website : www.unicab.com

Uniflex Cables is involved in the development of various types of underwater towed cables

- Steel-armoured Electro-Opto-Mechanical Tow Cable
- Kevlar-armoured Electro-Opto-Mechanical Tow Cable

Contribution to DRDO Projects/Programs

Developed light tow cables and heavy tow cables for various towed array sonar systems



UNIFRAX INDIA LTD

Company Name : Unifrax India Ltd
Contact Person : Mr Rajendra Patil
Designation : Director
Address : C-102, Busin Squire, Andheri Kurla Road, Andheri East
City : Mumbai - 400093
Contact Number : +91 22 2921 2200
Fax : +91 22 2921 2249
Email : unifrax.mumbai@unifrax.co.in
Website : www.unifraxindia.com

This Company is involved in Development of Chemicals & Materials for Airframe PJ-10, Cervac-DQM

Contribution to DRDO Projects/Programs

Material processing & fabrication of prototype test samples of microwave absorbing materials



UNIGLASS INDUSTRIES PVT LTD

Company Name	:	Uniglass Industries Pvt Ltd
Contact Person	:	N A Shankar
Designation	:	Sr. Executive Sales
Address	:	Sy No.125/1B, 111/1C, 129/1C, Near KSRT Depot, Mysore Road
City	:	Kengeri Bangalore-560 060
Contact Number	:	+91 2848 3042/43/44
Fax	:	+91 080 2848 3041
Email	:	shankaruniglassindia.com
Website	:	www.uniglassindia.com

Contribution to DRDO Projects/Programs

Uniglass Industries Pvt. Ltd is involved in the design and development of composite rods based on pultrusion and filament winding technique. The composite rods have been developed to suit specific requirements of cold weather conditions, pay load of 150 kg with metal threading for attaching multiple rods.

- Fibre Reinforced Plastics
- Composite rods



FRP rods

UURMI SYSTEM PRIVATE LIMITED

Company Name : Uurmi System Private Limited
Contact Person : Bathiri Srinivas
Designation : Vice President
Address : Door 860/A, Road No. 45, Jubilee Hills
City : Hyderabad - 500 033
Contact Number : 30146500
Fax : 30146565
Website : www.uurmi.com

Embedded Hardware and Software Product Development in wire/wireless communication Technologies

Contribution to DRDO Projects/Programs

ANURHYTHM Reconfigurable Face Recognition Platform



VAJRA RUBBER PRODUCTS (P) LTD

Company Name : Vajra Rubber Products (P) Ltd
Contact Person : Mr Sachindranath PS
Designation : Director
Address : P.O. Konathkunnu, Thrissur Dt.
City : Kerala - 680123
Contact Number : +91 480 286 0402
Fax : +91 480 286 7380
Email : contact@vajrarubber.com
Website : www.vajrarubber.com

Vajra Rubber Products (P) Ltd is providing customised solutions for electronics modules for military applications, Subsystem development and testing, System integration

- Encapsulation materials for acoustic transducers
- Cable splicing
- Rubber-moulded junction boxes
- Acoustic baffle
- Rubber junction box

Contribution to DRDO Projects/Programs

Developed innovative solutions in terms of rubber products and encapsulants for sonar transducers and arrays



VAR ELECTROCHEM PRIVATE LIMITED

Company Name	: VAR Electrochem Private Limited	
Contact Person	: Dr M Durgaprasad	K Raghu Varma
Designation	: Chief Technical Officer	Director
Address	: Plot No 202/1, Sector-III, Lane-V, IDA Phase-II, Cherlapally	
City	: Hyderabad – 500 051	
Contact Number	: +91 40 27262351	Mobile : +91 9440672416
Fax	: +91 40 27265224	9948108449
Email	: varelectrochem@yahoo.co.in	

The company developed and supplied state-of-the-art Lithium Thermal Batteries to DRDO for Trishul and Akash projects of DRDO. Lithium thermal batteries (>1000 W) have been developed and supplied to labs for use in missiles.

Contribution to DRDO Projects/Programs

- Lithium thermal batteries >1000 W to Sudershan and Nirbhay
- Ni-MH battery packs



Batteries

VEM TECHNOLOGIES

Company Name	:	VEM Technologies
Contact Person	:	JP Sharma
Designation	:	Vice-President Marketing
Address	:	#8-48/1, Bachupally Indl.area, Quthubullapur Mandal Ranga Reddy Dist
City	:	Hyd - 500 090
Contact Number	:	+91 2304 6633, 2304 7733
Fax	:	+91 2304 6655, 2304 7755
Email	:	infor@vemtechnologies.com
Website	:	www.vemtechnologies.com

VEM Technologies has its capability in Design, Development, Manufacturing & System Engineering In the area of Electro-optical System, Advanced Systems, Embedded & Computational Systems, Mechanics & Mechanical Systems, Electrical & Electronic Systems, Advanced Control Access Systems.

1. IIR Seeker
2. Focal Plane Array (FPA) Sensor
3. Programmable Pulse Mode Modulators

Contribution to DRDO Projects/Programs

The Company has also designed, developed / produced evaluated IIR Seeker. Focal Plane Array (FPA) sensor and avionics system for guided missiles Nag & Helina anti tank.



VERSABYTE DATA SYSTEM PVT LTD

Company Name	: Versabyte Data System Pvt Ltd
Contact Person	: PS Reddy
Designation	: Managing Director
Address	: 24/6, 20 th Main, 1 st 'R' Block, Rajajinagar
City	: Bangalore- 560 010
Contact Number	: +91 80 2357 8535 / 2347 1936
Fax	: +91 80 2337 2674
Email	: psreddy_vds@yahoo.com
Website	:

Contribution to DRDO Projects/Programs

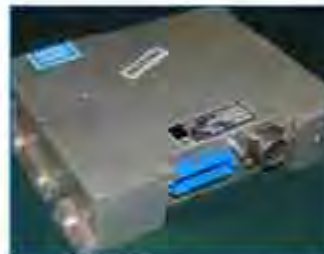
Versabyte, has pioneered in the area of design, development and production of custom-built power supply solutions for prestigious DRDO projects for over two decades. As many as 15 different power suppliers for Army, Navy and Air Force have been qualified, approved and bulk produced. It specializes in meeting the EMI/EMC ruggedisation, weight and size, thermal management aspects which are critical. Design capabilities are in the field of niche special requirements of AC/DC, DC/DC, HV, pulsed power 400 Hz converters of any size, wattage and configuration. They are developing electronic Power Conditioners(EPCs) for Microwave Power Modules. It also contributed In the development of DC-DC converters for torpedoes & chassis for Helicopter Fire control Systems (HFCS).

Productionization of Electronic Power Conditioners (EPCs). DC-DC converters for torpedoes. Design, Development, Engineering & Production of AVIONICS grade power supply units, High Density Power Supplies, Electronic sub assemblies, LRU's involving state of the art technology and latest production technologies.

Power supply units for TORPEDOs



Tx DC-DC converter



300V DC-DC converter



VP ENTERPRISES

Company Name : VP Enterprises
Contact Person : Mahesh Kugaonkar
Designation : Proprietor
Address : S No 25/4/6, Sheetal Cooperative Housing Society
Flat No 11, Vitthalwadi, Sinhagad Road
City : Pune – 411 051
Contact Number : +91 20 24349603 Mobile: +91 9822501194
Fax : +91 20 24349751
Email : vpent05@vsnl.net

VP Enterprises mainly deals in polycarbonates and has been associated with DRDO for making components from special materials.

Contribution to DRDO Projects/Programs

- Cutting charge assembly polycarbonate material
- Modular charge assembly in polycarbonate material
- Non-standard tubes/pipes in Perspex material.



Cutting Charge Assembly



Modular Charge Assembly



Non-standard Tubes/Pipes

VXL TECHNOLOGIES LTD

Company Name	: VXL Technologies Ltd	
Contact Person	: Arunabh Ghosh	
Designation	: Joint President & COO	
Address	: 20/3, Mathura Road	
City	: Faridabad – 121 006	
Contact Number	: Phone: +91 129 2305600-02	Mobile: +91 9810101254
FAX	: +91 129 2305608	
Email	: a.ghosh@vxltechno.com	
Website	: www.vxltechno.com	

A member of Birla Conglomerate – VXL Technologies Ltd was incorporated in 1966. VXL's drive to traverse uncharted platforms and explore new business avenues, synergised with its pioneering strength in mechanical & electro-mechanical fuzes, safety and arming mechanism for missiles & rockets, infocom & defence electronics, paves the way for new ventures.

Contribution to DRDO Projects/Programs

- Mechanical time & percussion delayed arming Fuze 213 MK-5 (M-1), (M-2), (M-3) & (M-4), Fuze 213 MK-5 (M-R) for 122 mm rocket for Navy
- Impact Fuze for 122 mm rocket, safety arming & functioning unit
- Timer assembly & probe assembly for 1000 lb cluster bomb
- Hollow Charge Fuze for 68 mm rocket, Safety Actuating Mechanism (SAM) for Trishul missile
- SAM for Prithvi missile
- SAM for Akash missile
- Arming Delay Mechanism for Nag missile
- Impact Fuze for 84 mm incendiary ammunition
- Fuze Ballistic Tail No FBT-3I for 1000 lb aircraft bomb
- Point initiation base detonating Fuze B-15
- Fuze B-25 M for 140 mm rocket for Naval gun
- Nose Fuze BY-23Y for 23 mm Naval gun
- Fuze delayed arming safety device
- Cargo ammunition for spinning & non-spinning projectiles
- PPK-U parachute release unit
- Gaine assembly for Pinaka rockets
- Fin assembly for 80 mm rockets
- Safety arming mechanism for anti-tank Minelet
- Gaine 'G' switch for Pinaka rocket





WALCHANDNAGAR INDUSTRIES LTD

Company Name	: Walchandnagar Industries Ltd	
Contact person	: PD Ganorkar	
Designation	: Sr General Manager (Marketing)	
Address	: Walchandnagar Post	
City	: Pune – 413 114	
Contact Number	: +91 21 18257505	Mobile: +91 9325128018
Fax	: +91 21 18252358	
Email	: pdganorkar@walchand.com	
Website	: www.walchand.com	

As one of the few heavy engineering industries in India, Walchandnagar Industries is well equipped for fabrication, precision machining, heat treatment, etc., required for manufacturing wide range of large sized industrial machinery. Technologies developed to deal with wide range of ferrous materials such as plain carbon steels, low and high alloy steels, stainless steels, high strength maraging steel and non-ferrous and exotic materials like Cobalt alloys, Incoloy, Inconel, Cupro-Nickel, Monel, Aluminum, and Titanium. The company is contributing to various programmes of DRDO.

Contribution to DRDO Projects/Programs

- Combustion chambers for missiles
- Booster motor casings for missiles
- Launching systems for missiles
- Aluminum alloy bridges
- Precision gear boxes



Aluminum Bridge



Transporter cum Tiller (trailer mounted)



Rocket Motor Casing

WAVELET GROUP

Company Name	: Wavelet Group	
Contact Person	: Dr Vishwas Udpikar	
Designation	: President	
Address	: Unit 10, Plot No 59, Amchi Colony Survey No 1, NDA Road, Bawdhan	
City	: Pune – 411 021	
Contact Number	: +91 20 22951983/4/5	Mobile: +91 9860219911
Fax	: +91 20 22951904	
Email	: vishwas.udpikar@waveletgroup.com	
Website	: www.waveletgroup.com	

Wavelet Group has been working on signal processing projects related to Unmanned Aerial Vehicles and supplied developed products to DRDO for test and evaluation.

Contribution to DRDO Projects/Programs

- Video codec for unmanned aerial vehicle
- Ground station flight console for unmanned aerial vehicle
- Video image signal tracker for launch rocket vehicle
- Radar data recorder
- Signal processor for fiber optic gyro
- Signal processor for indigenous RF seeker
- Signal processor for radio proximity fuze
- Image signal processor for thermal imaging system
- Signal processor for aircraft multi-function display
- Target detection and CFAR processing algorithms for multi-mode radar
- Radio beacon receiver system
- High precision angular motion simulators
- Forced oscillation controller for wind



WEBEL MEDIATRONICS LIMITED

Company Name	:	Webel Mediatronics Limited	
Contact Person	:	Gautam Burman	
Designation	:	Wholetime Director & CEO	
Address	:	P-1, Taratala Road	
City	:	Kolkata – 700 088	
Contact Number	:	+91 33 24015602	
		+91 33 24017699	Mobile: +91 9831253537
Fax	:	+91 33 24014081	
E-mail	:	wml.ceo@gmail.com	
Website	:	www.webelmediatronics.in	

Webel Mediatronics Limited, a Govt of West Bengal Undertaking started its strategic electronics activities in early 2003. The undertaking has developed many electro-mechanical products for use in military equipment.

Contribution to DRDO Projects/Programs

- Three phase step down DC Chopper
For step-less speed control of heavy weight torpedoes
- GPS based Floating Recorder
Device will be used as exercise head to locate position of the torpedo in sea
- Electro-mechanical Linear Actuator
- Speed Change Mechanism
A low cost two speed control system for DC propulsion motor
- Class-D Amplifier
Power amplifier with a wide range of signal bandwidth and different ranges of power

WILDCRAFT INDIA PVT LTD

Company Name : Wildcraft India Pvt Ltd
Contact Person : KS Dinesh
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City : Bangalore – 560061
Contact Number : +91 80 26394334 Mobile: +91 9448070242
Fax : +91 80 26394224
Email : info@wildcraft.in
Website : www.wildcraft.in

Wild Craft India Pvt Ltd develops and manufacture all kinds of back packs and adventure equipment. The bags developed for DRDO are padded heavily for protection against impact.

Contribution to DRDO Projects/Programs

- Soft Cases/Man packs for BFSR-SR-2003/2004
- Soft Cases for Low Level Lightweight Radar - Bharani (2006)
- Soft Cases for Low Level Lightweight Radar - Aslesha (2008)
- Commander Shelter for Radars – Bharani & Aslesha
- Radar Cover for Radar Bharani

WIPRO LIMITED

Company Name	: WIPRO Limited
Contact Person	: P S Guha Patra
Designation	: Vice President(Strategic Initiatives & Global Offsets)
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Fax	: +91 124 3084700
Email	: partha.guhapatra@wipro.com
Website	: www.wipro.com

Wipro Limited is a leading IT and engineering services company. Wipro's main areas of activity are IT services/KPO, design and development, and manufacturing. Main capabilities include: Embedded-software and product engineering (including avionics and communication); engineering design services; hardware design and manufacturing; manufacture of hydraulic cylinders, pumps, tubes, and actuators. Wipro's current areas of defence-related activities include design and manufacturing for communication and avionics, manufacture of actuators, hydraulic components and systems integration.

Contribution to DRDO Projects/Programs

- Real time acquisition for ISTRAC
- Ruggedised Ethernet controllers
- Ground control system for AGNI program
- Ruggedised system for PRITHVI
- Data acquisition system for AKASH
- Ruggedised system for LAKSHYA
- Hydraulic system for AGNI Launcher
- Power Unit and Hydraulics for PINAKA
- Embedded-software and system integration
- Avionics and communication systems
- SPI-4.2 IP
- NOR & NAND Flash Controller IPs
- Network Processor Virtual Prototype



XYTEL PVT LTD

Company Name : Xytel Pvt Ltd
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Fax : +91 20 40737777
E-mail : xytel@vsnl.com
web : www.xytelindia.com

Xytel Pvt Ltd is specialised in the:

- Supply of skid mounted, modular pilot and small scale fully automated plants for study of processes, optimization, catalyst/feedstock evaluation and limited production requirements.
- Expertise in plant design, fabrication, assembly and instrumentation and soft ware.
- Development of hydrogen generator and heating systems

Contribution to DRDO Projects/Programs

- Partner in the development of hydrogen generator and steam heating systems.
- High Capacity Methanol Reformer



ZEONICS SYSTECH DEFENCE & AEROSPACE ENGINEERS (P) LTD

Company Name : Zeonics Systech Defence & Aerospace Engineers (P) Ltd
 Contact Person ; Zarir H Sholapurwala
 Designation ; Managing Director
 Address ; Ahura" # 236/2/2, 10th Main, Opp to 6th Cross,
 Maruthi Nagar, New Thippasandra Post
 City ; Bangalore – 560075
 Contact Number ; +91 80 25242936, 25244810, 25241445 Mobile : +91 9980676956
 Fax ; +91 80 25242936, 25244810
 Email ; zeonics@vsnl.net
 Website ; www.zeonics.org & www.systechcapacitors.com

Zeonics has been dealing with DRDO for the past 27 years and have worked with several establishments in major & minor projects: Awacs, Agni, Prithvi, Akash, WLR/BLR/FLR, Rohini/Revathi, and Rajendra Radar.

Contribution to DRDO Projects/Programs

- Crowbar Tray for 37 kV rating – for WLR/FLR/BLR Series Radars
- High voltage Multiplier – for 37 kV DC output rating for WLR/FLR/BLR Series Radars
- High voltage high frequency Capacitor Module – for 47 kV DC output rating for Rohini/Revathi Radars
- High voltage Spark Gap Modules – for 25 kV in T10 configuration
- High voltage pulse forming Line Capacitor – for 400 kV Pulser

ZETATEK INDUSTRIES LTD

Company Name : Zetatek Industries Ltd
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Fax : +91 40 23720305
Email : rskumar@zetatekindia.com
Website : www.zetatekindia.com

Zetatek Industries Ltd has gained expertise in developing:

- Environmental Test Chambers
- Centrifuges
- Vibration Test Systems
- Motion Simulators
- Electro Optical Test Equipment
- Servo Hydraulic test system
- Motion Simulators & Rate Tables

Contribution to DRDO Projects/Programs

The company was a partner for the development of Two Axis Rate Table. The system was successfully developed and being used for calibration of Inertial Guidance system and calibration of MMW seeker.



Two Axis Rate Table with Thermal Chamber

ZEUS NUMERIX PRIVATE LIMITED

Company Name	: Zeus Numerix Private Limited
Contact Person	: Abhishek Jain
Designation	: Chief of Marketing
Address	: M-03,SINE, CSRE Building, IIT Bombay Campus, Powai
City	: Mumbai – 400 076
Contact Number	: +91 22 64527612
Fax	: +91 22 25767112
Email	: support@zeusnumerix.com
Website	: www.zeusnumerix.com

Zeus Numerix Pvt Ltd has its competency in providing:

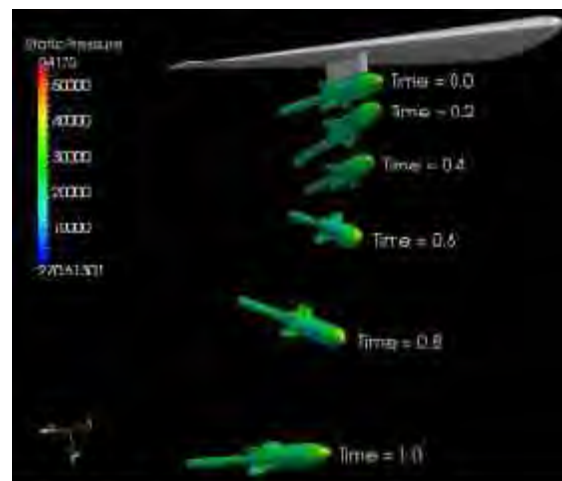
- Customized software for CFD analysis of Muzzle Break
- Customized software for CFD analysis of Gas Operated Weapon.

Contribution to DRDO Projects/Programs

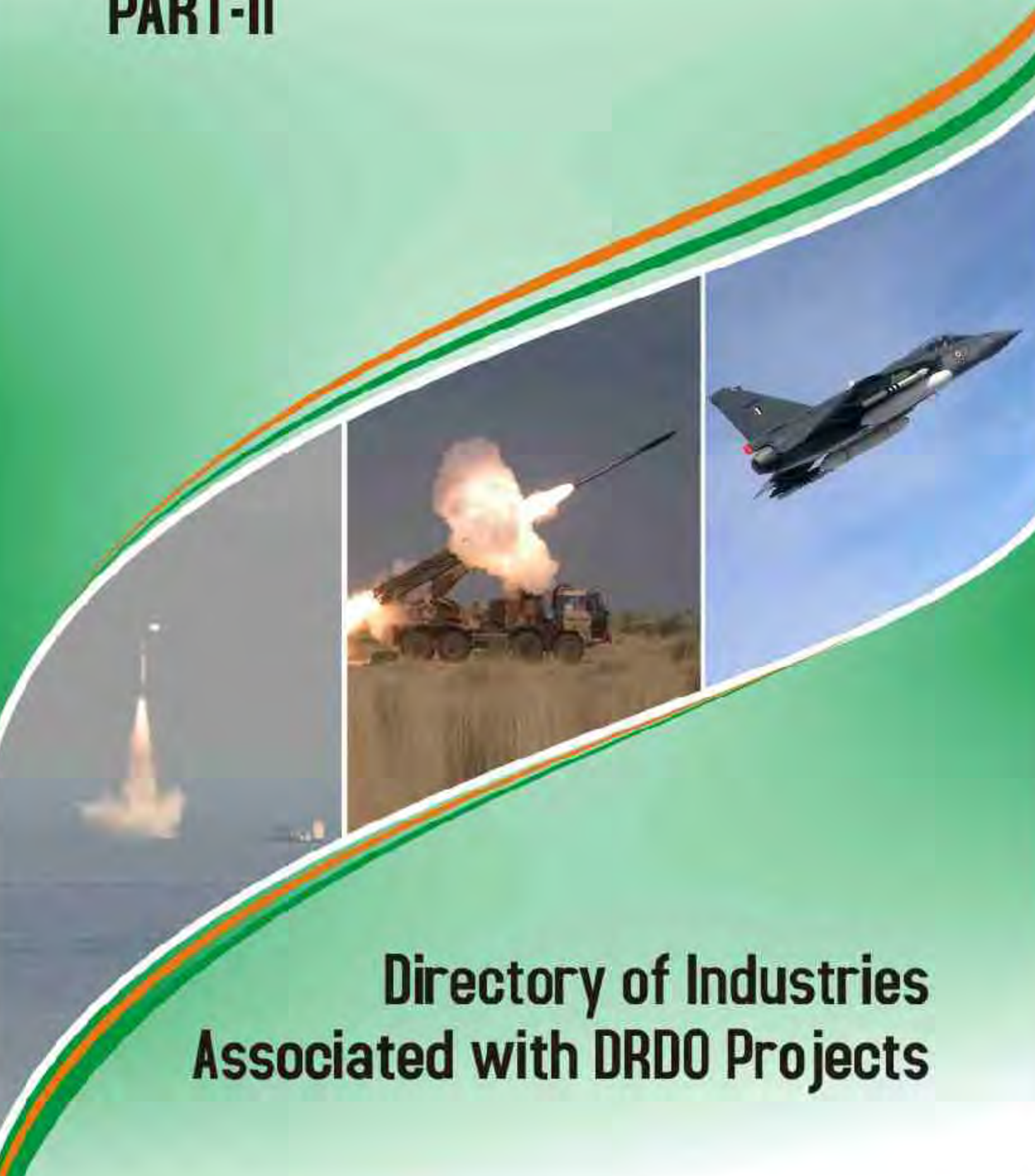
Zeus Numerix Pvt Ltd (ZN) was started from IIT Bombay in 2004 by faculty and alumni. ZN is the first and only company in the country to have developed end-to-end commercial numerical simulation software. ZN is a CEMILAC (DRDO) certified design company with approval in Aerodynamics, Electromagnetics and Stealth, Dynamics and Control, Structural systems and sub-systems. ZN boasts of manpower from IITs and also has professors from various IITs who are consultants to ZN. ZN is recipient of DST-FICCI-Lockheed Martin India Innovation Growth Medal and a certified R&D company by Department of Scientific and Industrial Research.

The development of these soft wares have helped a lot in finalizing the weapon parameters of the project.

ZN has completed more than 70 projects for DRDO including Design of Rocket Sled, Manufacturing support, explosive safety and Pulse detonation engine design for TBRL. They have done store separation from aircraft, design of hypersonic, supersonic and subsonic missiles for aerodynamics, controls and structures, stealth of UAVs and naval systems, submarine cover design for hydrodynamics and strength, noise suppression from gun systems, muzzle brake of artillery, custom CFD software for missile, propulsion system and charring ablation system design, propellers, water twister for arresting heavy vehicles etc. All the project have been done inhouse using indigenous technology.



PART-II



**Directory of Industries
Associated with DRDO Projects**

3M India Ltd

Contact Person : Mrs Raghunath Khandekar
 Designation : Director
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 Contact Number : +91 020-3925 7450
 Email : rkhandekar@3m.com
 Website : www.3m.com

AP Vaccum Technology Services

Contact Person : K Uday Shankar
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AS Hasanali & Co

Contact Person : JA Hasanali
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 Maharashtra
 Phone : +91 22 23447542, 23423288
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 Mobile : +91 9819189494
 Email : ashco@bom5.vsnl.net.in

Abhiramani Industries

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 Designation : Partner
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 Jalahalli, Bangalore – 560 013
 Karnataka
 Phone : +91 80 23451654
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Accord Software & Systems Pvt Ltd

Contact Person : S Purushotham
 Designation : Managing Director
 Address : No 37, Krishna Reddy Colony, Domlur Layout,
 Bangalore – 560 071
 Karnataka
 Phone : +91 80 5350105, 5350136
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 Mobile : +91 9845655336
 Email : sp@accord-soft.com

Access Textiles

Contact Person : Deepak Jhunjunwala
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 Sakinaka, Andheri-Kurla Road, Andheri (East),
 Mumbai – 400 059
 Maharashtra
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 Fax : +91 22 28500412
 Email : accesstextiles@yahoo.com

ACD Communications

Contact Person : B Adilakshmi
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 Cherlapalli, Hyderabad – 500 051
 Andhra Pradesh
 Phone : +91 40 27263505
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 Email : adiboppanya@yahoo.com

Acorn Controls

Contact Person : Harshavardhan Sahasrabudhe
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 Fax : +91 20 254833778
 Mobile : +91 9860601787
 Email : acorn@eth.net

Active Carbon India Pvt Ltd

Contact Person : Dr V Jagan Mohan Reddy
 Designation : Managing Director
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 Road No: 12, Banjara Hills, Hyderabad – 500 034
 Andhra Pradesh
 Phone : +91 40 23324884
 Fax : +91 40 23324886
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 Email : activecarbon@dishnetdsl.net

Aditya Precitech Private Limited

Contact Person : KN Venketeswara Rao
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Ador Powertron Ltd

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 Email : svh@ador.com

Advance Paints Pvt. Ltd.

Address : 2nd Fosbery Road, Near Hindustan Lever Ltd.
 Sewri (East)
 Mumbai-400 015
 Phone : +91 22 2372 8330 / 2373 8274
 Fax : +91 22 2374 3305
 Email : metashield@advancepaints.com



Aerial Services Pvt Ltd

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Aeronav Industrial Safety Appliances

Contact Person : Sandip Hora
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Aerospace Engineers

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Aerospace Engineering (India) Private Limited

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Aftek Ltd

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Agappe Diagnostics Ltd

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Kerala
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Ailga Rubber Works

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Kanpur - 208012
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Fax : +91 512 2216213
Email : info@ailga.co

Aimil Ltd

Contact Person : Arvind Verma
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Mathura Road
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Airotek

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 Email : info@airotek.net
 Website : www.airotek.net

Ajay Sensors & Instruments

Contact Person : MV Vrishabhendra
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 12th "A" Cross, Rajaji Nagar, Bangalore – 560 010, Karnataka
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 Fax : +91 80 23381040, 3324848 Mobile :+91 9845048010
 Email : ajaysensors@yahoo.com
 Website : www.ajaysensors.com

Ajit Chemicals Pvt Ltd

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 Uttar Pradesh, India
 Phone : +91 512 2549863, 2525454, 3254521
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 Website : http://www.plasticmoulds.co.in

Akhilesh Engineering

Contact Person : G Babu
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Alfa Electronics Services (I) Pvt Ltd

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Fax : +91 891 2790893
Email : alfaelect@yahoo.co.in, info@alfaelectronics.in

Alkyl Amines Chemicals Limited

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Email : info@arptech.org

Allen Reinforced Plastics (P) Ltd

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Fax : +91-040-23413776
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Allied Electronics Corporation

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Alligator Designs Pvt Ltd

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Email : info@alligatordesigns.com
Website : www.alligatordesigns.com

Alpha Design Technologies Pvt Ltd

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Phone : +91 80 42556940
Fax : +91 80 25216541
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Website : www.adtl.co.in

Alpha Imager Pvt Ltd

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Email : sales@alphaimager.com, thiyaga@vsnl.com
Website : www.alphaimager.com

Alpha Tech Scientific & Engineering Instrument

Contact Person : Ramakrishnan
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Karnataka
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Email : alphatechins@indiatimes.com



Alpine Systems

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 Email : info@alpinesystems.net.in

Altair Engineering India Pvt Ltd

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 Fax : +91 80 66294700
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Ammos Software Technologies Pvt Ltd

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 Fax : +91 80 41210660
 Email : sunil@ammospech.com,
 hasan@ammospech.com

Amphenol Interconnect (I) Pvt Ltd

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 Contact Number : +91 20 30688303 Mobile : 9810124594
 Fax : +91 20 27123146
 Email : vbhavsan@amphenol-in.com
 Website : www.amphenol-in.com



Amtone Rubber Industries

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 Dehradun
 Uttaranchal
 Phone : +91 135 2781553
 Fax : +91 33 26619695
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Anabond Limited

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 Chennai - 600 04, Tamil Nadu
 Phone : +91 44 23460041 / 42 / 43
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 Email : marketing@anabond.com
 Website : www.anabond.com

Analogic Controls India Pvt Ltd

Contact Person : Kishor / K Padnadhram
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 Andhra Pradesh
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 Fax : +91 40 27504776
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Anand Nishikawa Co Ltd

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 Email : jasmeet.alp@anbrs.com



Ananth Technologies Pvt Ltd

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Fax : +91 40 6615 6531, 6615 6652
Website : www.ananthtech.com
Email : mail@ananthtech.com

Anabond Limited

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Chennai - 600 04, Tamil Nadu
Phone : +91 44 23460041 / 42 / 43
Fax : +91 44 23460048
Email : marketing@anabond.com
Website : www.anabond.com

Apps Connect Technologies Pvt Ltd

Contact Person : B Jaipal Reddy
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Chaturvedi Tools & Equipments Ltd

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Comsat Systems Pvt Ltd

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Fibre and Allied Industries

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Galaxy Rubber Products

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GE Godavari Engg Ltd

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Andhra Pradesh
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Gee Pee Industries

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General Engg Corporation

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General Supply Company

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General Optics Asia Ltd

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Global Electronics

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Glowtronics Pvt Ltd

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Goa Shipyard Limited

Contact Person : AK Handa
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Goa Paints & Allied Products

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Godrej & Boyce Manufacturing Co Ltd

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Goodwill Hardware Stores

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Greaves Cotton Ltd

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Gulf Oil (India) Ltd

Contact Person : Col Deepak Srivastava
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HBL Aircraft Batteries Ltd

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HBL Nife Power Systems Ltd

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HEC Ltd

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Hitein Bushing Pvt Ltd

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Heritage Creations

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Hi Tech Engineers Pvt Ltd

Contact Person : Sanjay Awate
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High Energy Batteries

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Hindustan Aeronautics Limited

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Hindustan Furnace Pvt. Ltd

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Hindustan Opticals

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Hitech Hydraulics

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Hi-tech Robotic Systemz Limited

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HMT Machine Tools

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Hobby Tools & Components

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Hyderabad Metal Crafts Pvt Ltd

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Hydroquip Hydraulics Pvt Ltd

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HYT Inovative Projects Pvt Ltd

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ICOMM Tele Ltd

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IIC Technology Pvt Ltd

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INCAT

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India Nippon Electrical Ltd

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Indian Adhesive & Glues

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Indian Oil Corporation Ltd

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Indo Nippon Chemical Co., Ltd.

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Industrial Carbon Pvt. Limited

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Industrial Connectors

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Innovative Machine Tool Automation Pvt Ltd

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Inox Air Products

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Integrated Electric Company

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Interface Devices India Pvt Ltd

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IST Limited

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ITI Ltd

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iWave Systems

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Jagdish Engg Works Pvt Ltd

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Jahagirdar Aero Products

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Janica Electronics Pvt Ltd

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JCBL Ltd

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Jeet & Jeet Glass and Chemical Pvt Ltd

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John Fowler (India) Ltd

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Joseph Leslie Drager Pvt Ltd

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Kailash Industries

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Kulpak Engg

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KATEEL

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Kaygee Foam (P) Ltd

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KCP limited

Contact Person : VL Dutt
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Kapil Polymers

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Keltech

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Keltron Electro Ceramics Ltd

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Kerala State Electronics Development Corporation Ltd (Keltron)

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Kerala Electrical & Allied Engg Co Ltd

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KINS Electronics

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Khanti Plastic Industries

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Kirloskar Electric System

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Kirloskar Brother Limited

Contact Person : Ms Ketaki
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Phone : +91 20 2721 4444
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KLB Engg & Automobile Industries

Contact Person : K Lal Budhiraja
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Kobashi Machine Tools Pvt Ltd

Contact Person : KK Reddy
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Kohli Enterprises

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Krishna Industries

Contact Person : Ashwin Shah
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Kritikal Solutions Pvt Ltd

Contact Person : Jatin Sharma
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Kumar Enterprises

Contact Person : YR Ramarao
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Kumaran Industries (P) Ltd

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Kusumsagar Corporates

Contact Person : Yogesh Kusumgar
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Kultronix-Tako-ESD Technologies Pvt Ltd

Contact Person : Sameer Kulkarni
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Kumar Wires & Conductors (P) Ltd

Contact Person : Jitendra Prasad Sharaff
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Lama Enterprises

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Larsen & Toubro Limited

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Lee Hydraulics & Fasteners

Contact Person : CH Venkatesh
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Legend Technologies (I) Pvt Ltd

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Leonardo Engg Pvt Ltd

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Libra Engg Works

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Light Guide Optics Pvt Ltd

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LNT

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Logic Power

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Macmet Technologies Ltd

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Maestros Mediline Systems Ltd

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Maffick Instruments

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Magtorq Private Limited

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Mahindra Group of Companies

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Mahindra Satyam

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Mahindra UGINE Steel Co Ltd

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MAK Controls & Systems

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Manali Petrochemical Ltd

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Manjira Machine Builders Pvt Ltd

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Mars Auto Pvt Ltd

Contact Person : MC Agarwal
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Marudhar Paints and polymers

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Maspack Ltd

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Mech Seals Industries

Contact Person : AA Dawa
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Mechtron Engineers

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Meru Precision Industries

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Meridian Inflatables Pvt Ltd

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Metallic Bellows India Pvt Ltd

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Metaltech Motor Bodies Pvt Ltd

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Micro Precision

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Micron Instruments Pvt Ltd

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Micropack Ltd

Contact Person : Pradeep Menon
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Miltech Industries Pvt Ltd

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MindTree Ltd

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Mishra Dhatu Nigam Limited

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Mistral Solutions Pvt Ltd

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Model Hosiery Works (Regd)

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Motilal Dulichand Pvt Ltd

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MTAR Technologies Pvt Ltd

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Multitech Engineers

Contact Person : Subramaniam
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Murali Engineering & Press Metals

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Naskar & Co

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Nath Engg Industries

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National Heavy Engineering Co-Operative limited

Contact Person : Shri Vijay Mangudkar
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National Ship Design

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Navyug Lamination

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Nest Ltd

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Netplast Pvt. Ltd.

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Neugan Design System (Pvt) Ltd

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Nfotec Digital Engineering Pvt Ltd

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Nikunj Exim Enterprises Pvt Ltd

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Nivam Instruments Pvt Ltd

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Non-Ferrous Foundry

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Non Ferrous Materials Technology Development Centre (NFTDC)

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Nucleonix Systems Pvt Ltd

Contact Person : JN Reddy
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Nucon Engineers

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Nucon Zander India Pvt Ltd

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Nunet Technologies Pvt Ltd

Contact Person : Vishnu Kumar
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Oil Gear Towler Polyhydron Pvt Ltd

Contact Person : Dhopeswar Kar
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Omega Consultancy,

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Onio Designs Pvt Ltd

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Optics & Allied Engg Pvt Ltd

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Ordnance Factory Board

Contact Person : Sudipta Ghosh
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Ordnance Equipment Factory

Contact Person : Mahesh Chandra
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Ordnance Factory Medak

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Email : hyd1_armour@sancharnet.in
Website : www.ofpm.ap.nic.in

Orient Synthetic Rayon Mills Pvt Ltd

Contact Person : Vishwanath Sankar Chalke
Designation : Managing Director
Address : SSAS Complex, Kherani Road
Sakinaka, Mumbai - 400 072
Maharashtra
Phone : +91 22 27681140, 22 27683332, 22 28526137
Fax : +91 22 28526137
Mobile : +91 9819836100
Email : chalke@bom3.vsnl.net



Orion Chem Ltd

Contact Person : Rajirattan G Mohatta
Designation : Director
Address : Unit#2, Building III, Sector III, Millennium Business Park
Mahape, Navi Mumbai - 400 710
Maharashtra
Phone : +91 22 27782942
Fax : +91 22 24932748
Mobile : +91 9820236878
Email : info@orionchem.com, ocpl1@hathway.com
Website : www.orionchem.com

Oscar Equipments Pvt Ltd

Contact Person : VP Jain
Address : DH Road, Mouja Bhasa
24 Parganas(S) - 743 503
West Bengal
Phone : +91 33 24531938
Fax : +91 33 24978494
Mobile : +91 9331035450
Email : marketing@oscarequipments.com, Vpjain45@gmail.com
Website : www.oscarequipments.com



Padmashree Electronics

Contact Person : SC Deshmukh
Designation : Director
Address : Padmashree, 4/9 Sahakari Vasahat
Erandwana Karve Road, Pune - 411 004
Maharashtra
Phone : +91 20 25443267, 25437008
Fax : +91 20 25434473
Mobile : +91 9822813559
Email : padmashrians@rediffmail.com

PAL India Ltd

Contact Person : Niharika Arora
Designation : HR-Officer
Address : 6th Floor, Sumer Plaza, CTS 419
Maroj Maroshi Road, Andheri (East), Mumbai - 400 059
Maharashtra
Phone : +91 22 67995555
Fax : +91 22 67995556
Email : niharika_arora@pal.com

Pandian Chemicals Limited

Contact Person : Sundaraja Moorthy
Designation : Director, Technical
Address : No. 17- A, Vallabhai Road, Chokkikulam
City : Madurai - 625 002, Tamil Nadu
Phone : +91 452 253 2436
Fax : +91 452 253 2151
Email : pandian@pclindia.com
Website : www.pclindia.com

Pandit Engg

Contact Person : Sharad Pandit
Designation : Partner
Address : Katraj Kondwa Road, Plot No 1335
Vidya Nagar, Pune - 411 046
Maharashtra
Phone : +91 20 26962905
Fax : +91 20 26962905
Mobile : +91 9823580230
Email : srp.post@hotmail.com



Paragon Textile Mills Ltd

Contact Person : Narendra K Patel
 Designation : Managing Director
 Address : I-11/12, Paragon Condominium
 PB Marg, New TV Centre, Worli, Mumbai - 400 013
 Maharashtra
 Phone : +91 22 24938752
 Fax : +91 22 24936627
 Mobile : +91 9821433634
 Email : elpar@vsnl.com

Paras Enterprises

Contact Person : Paras Jain
 Designation : Proprietor
 Address : 725, Deccan Gymkhana
 Opposite Central Bank of India, Pune - 411 004
 Maharashtra
 Phone : +91 20 25532769, 25537731
 Fax : +91 20 25537731
 Email : parasenterprises-pune@yahoo.co.in

Park Control & Communication Systems

Contact Person : PJB Noble
 Designation : Chief Executive Officer & Director (Commercial)
 Address : 22, 80 Feet Road, HAL 3rd Stage
 Bengalooru - 560 075
 Karnataka
 Phone : +91 80 25297199
 Fax : +91 80 25291716
 Mobile : +91 9845058768
 Email : pjb.noble@parkcontrols.com

PAS Polymers Private Limited

Contact Person : PC Roy
 Designation : Managing Director - *M.S.C.(UK.),LRSC(Lon.).AMIM(Lon) FAIC (USA)*
 Address : Sri Sai Apartments,32,Flat No.102, Krishnapuri Colony, West Maredipally
 Secunderabad -500026
 Phone : +91 40 27806083
 Fax : +91 40 27732023
 Email : pasrocon_roy@yahoo.com
 Factory Location : PAS Polymers Limited, Shed No.22 & 23,
 IDA Kothur, Mahboobnagar District, A.P.



Patange Industries

Contact Person : Deepak Patange
Designation : Managing Director
Address : I-279, MIDC, Bhosari, Pune - 411 026
Maharashtra
Phone : +91 20 27474032, 27479690
Email : patangeinds@vsnl.net

Pearlite Liners Ltd

Contact Person : GK Divekar
Designation : Managing Director
Address : NT Road, Shimoga - 577 202
Karnataka
Phone : +91 8182 279781
Fax : +91 8182 278436
Email : gkdivekar@pearlite.in

Pegasus Software Consultants

Contact Person : KT Sreedhar
Designation : Managing Director
Address : 3792, HAL II Stage
Indira Nagar, 7th Main, Bengalooru - 560 038
Karnataka
Phone : +91 80 25203989, 25264252
Fax : +91 80 25203989
Mobile : +91 9880151221
Email : sridharkt@pegasoftech.com

Peninsula Electronics

Contact Person : AS Abdul Razak
Designation : Customer Service Manager
Address : No 2, Kodihalli, Airport Road
HAL II Stage, Post, Bengalooru - 560 008
Karnataka
Phone : +91 80 25202480, 25265659
Fax : +91 80 25211157
Email : maildesk@peninsulaelectronics.com
as.abdul@peninsulaelectronics.com



Penta Enterprises Ltd

Contact Person : Jose Varghese
 Designation : Manager
 Address : Penta Enterprises Ltd, (PRICOL)
 Coimbatore
 Tamil Nadu
 Phone : +91 422 2461990
 Fax : +91 422 2461225
 Email : jos@pricol.co.in

Permal Wallace Private Limited

Contact Person : Subhash Vithaldas
 Designation : Managing Director
 Address : Hoshangabad Road Bhopal-462011
 Phone : +91 2555633, 2550085, 2552192, 4272657
 Fax : 91-755-2550504
 E-mail : permali@sancharnet.in

Permionics Membranes Pvt Limited

Contact Person : Mr. VY Jose
 Designation : MD
 Address : 3/29, 4/19, BIDC, Gorwa Estate, Vadodara - 390 016 (Gujrat)
 Phone : 0265 - 2280003, 2283171, 2281563
 Fax : 0265-2281512
 E mail : info@permionics.com
 Website : www.permionics.com

Pieazo System Tech Pvt Ltd

Contact Person : N Thirunavakkarasu
 Designation : Director
 Address : No 33/6,2nd Floor, Lane 1
 Balaji Layout 26th cross, Kaggadaspura
 Bengalooru-560093
 Karnataka
 Phone : +91 80 25347090
 Email : info@pieazo.com

PLA Electro Appliances Ltd

Contact Person : TN Shah
Designation : Director
Address : Thakor Estate, Kurla Kirol Road
Vidyavihar (West), Mumbai - 400 086
Maharashtra
Phone : +91 22 25116864, 25116865
Fax : +91 22 25116848
Email : plaelectro@vsnl.com
Website : www.plaelectro.com

PMA controls India Ltd

Contact Person : V.Satheesh Kumar
Designation : Partner
Address : Plot No. 110 & 111, Burma Colony, Off OMR, Perungudi, Chennai -600096
Phone : +91 044 2496 0315/0469
Fax : +91 044-2496 0463
Email : saleschennai@pmacontrols.in.
Website : www.pmacontrols.in.

Poona Udyog

Contact Person : SV Mohindra
Designation : Partner
Address : 72/3, S-Block, MIDC, Bhosari
Pune - 411 026
Maharashtra
Phone : +91 20 27120726
Mobile : +91 9850504392
Email : poonaudyog@vsnl.net

Praj Industries

Contact Person : Abhay Chaudhari
Designation : Executive Vice President
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Bavadan, Pune - 411 021
Maharashtra
Phone : +91 20 22952214, 22951511
Fax : +91 20 22951718, 22951515
Email : abhaychaudhari@praj.net
Website : www.praj.net

Precision Model Designers

Contact Person : C Krishna
 Designation : Managing Director (Technology)
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 Shankar Nagar, Bengaluru - 560 096
 Karnataka
 Phone : +91 80 65631501
 Fax : +91 80 23371275
 Email : pmd@pmdmodels.com
 Website : www.pmdmodels.com

Precision Electronics Ltd

Contact Person : Col Romesh Kaul
 Designation : Assistant Vice President
 Address : D-10, Sector-3
 Noida-201301
 Uttar Pradesh
 Phone : +91 120 2551556, 2551557
 Fax : +91 120 2524337
 Mobile : +91 9910383144
 Email : romesh.kalul@pelindia.com

Premier Explosive Limited (PEL)

Contact Person : A N Gupta
 Designation : CMD
 Address : Premier House No.11, Ishaq Colony, Near AOC Centre
 Secunderabad – 500 015 (Andhra Pradesh)
 Phone : +91 40-66146801 / 2 / 3/ 4/ 5
 Fax : +91 40-27843431
 Mobile : +91 9849645414, 9849645416
 Email : ang@pelgel.com
 Website : www.pelgel.com

Pretech Automatives

Contact Person : Amol Dhekane
 Designation : Director
 Address : 305, Poonam Plaza, Gultekdi, Market Yard Road,
 Pune - 411 037
 Phone : +91 20 24267956 / 57
 Fax : 91 20 24267956 / 57
 Email : sales.pune@pretech.co.in
 Website : www.pretech.co.in

Prism India Private Limited

Contact Person : V. Jayaram
 Designation : Director
 Address : R.S.No. 84/1, Nallavadu Road, Thavalakuppam, Puducherry
 Phone : +91 413 261 9001
 Fax : +91 413 261 8755
 Email : prism@vsnl.com
 Website : www.prismindia.com

Processware Systems Pvt Ltd

Contact Person : R Gurumurthy
 Designation : Chief Executive Officer
 Address : 33, PT Street, Southend Circle, Basavangudi, Bengalooru
 Karnataka
 Phone : +91 80 26572188
 Fax : +91 80 26572365
 Mobile : +91 9844099110
 Email : guru@ptpl.com
 Website : www.ptpl.com

Process Pumps (I) Pvt Ltd

Contact Person : V Babu Sathian
 Designation : Managing Director
 Address : Plot No 86, III Phase, Peenya Industrial Area, Bengalooru - 560 058
 Karnataka
 Phone : +91 80 28395327, 28395328
 Fax : +91 80 28395807
 Email : ppil@satyam.net.in
 ppil_blr@dataone.in
 Website : www.process-pumps.com

Pukhrayan Industries

Contact Person : S S Aggarwal
 Designation : Proprietor
 Address : 2A/393, Azad Nagar, Kanpur
 Phone : 0512-2357655, 2398987



Pulse Engineering

Contact Person : President
Designation : Managing Director (Technology)
Address : Pulse Engineering, D-153, Industrial Area, Phase –8, SAS Nagar
: Mohali- 160071
Phone : +91 172 223 7646, 223 7747
Fax : +91 172 274 4584
Email : sm@pulse-power.com
Website : www.pulse-power.com

Purelec Carbon (I) Pvt Ltd, Pondicherry

Contact Person : Sri Umesh Shoney / Sri Subroto Roy
Designation : Managing Director / Technical Director
Address : 8, Salai Mariamman Koil II Street
Muthialpet, Puducherry 605003, India
Phone : 9842334863 / 09443255105
Email : purelec@gmail.com
Website : www.purelec.net

Purolator India Ltd

Contact Person : Tanuj Bhardwaj
Designation : Senior Manager
Address : 6, IDC, Mehrauli Road, Gurgaon - 122 001
Haryana
Phone : +91 124 232287, 232288, 232231
Fax : +91 124 232535
Email : tanuj.rajivgw@yahoo.com



R R Industries

Contact Person : P Sreedhar
Designation : Proprietor
Address : Plot No.5-9-285/16/3H, RG Nagar, Prasanthi Nagar, I.E.,
Kukatpally, Hyderabad-560 066
Phone : +91 40-23076060
Fax : +91 40-23720518/23069419

Raksha Polycoats

Contact Person : Abhijeet Sarkar
Designation : Managing Director
Address : S-17, T-Block, MIDC, Bhosari, Pune - 411 026
Maharashtra
Phone : +91 20 27121300
Fax : +91 20 41116555
Email : rakshapolycoats@yahoo.com

Rass IT Solutions

Contact Person : Hari
Designation : Managing Director
Address : No 389/1, 42nd Cross, 7th Main, 5th Block, Jayanagar
Bengalooru - 560 041
Karnataka
Phone : +91 80 40327700
Fax : +91 80 40327777
Email : info@rassit.com

Rattan Industries

Contact Person : Sarbjeet Singh
Designation : Assistant Manager
Address : Sewak Para Gill Road, Ludhiana - 141 116
Punjab
Phone : +91 161 2814129, 3097161
Mobile : +91 9814005270
Email : bkr.engineers@gmail.com

Ram Engg Works

Contact Person : Ram Gaypadh
Designation : Director
Address : S No 50, Wadgaonsheri, Off Nagar Road
Pune - 411 014
Maharashtra
Phone : +91 20 27030001
Email : kwalitygauges@vsnl.net

Real Time Tech Solutions Pvt Ltd

Contact Person : M Saravanan
Designation : Vice President (Sales)
Address : No 59, II Floor, 4th Main, 18th cross, Malleswaram
Bengalooru - 560 055, Karnataka
Phone : +91 80 23448610
Fax : +91 80 41282499
Email : sara@rttsindia.com
Website : www.rttsindia.com

Ray Enterprises

Contact Person : Dinesh Chowdhary
Designation : Chief Executive Officer
Address : No 18, Industrial Estate, Jagadhri Road, Ambala Cantt - 133 001
Punjab
Phone : +91 171 2699399
Fax : +91 171 2699420
Mobile : +91 9416069399, 9416068007
Email : info@rayen.in, rayen@dataone.in

Reckers Control India Ltd

Contact Person : KP Singh
Address : Plot No 14, LGF NRI Complex, Mandakini, Greater Kailash-IV
New Delhi - 110 019
Phone : +91 11 26270788
Fax : +91 11 26270789
Mobile : +91 9899106300
Email : sales@reckersreckers.com

Reinforced Plastic Industries

Contact Person : Suneel Aggarwal
 Designation : MD
 Address : 291, Panjappa Lane, Kavalbyrasandra
 Bangalore-560 032
 Telefax : 080-23336318

Resin & Allied Products

Contact Person : R Chandra Mohan
 Designation : Manager
 Address : Plot No 176/2, AD No 13-2, Nidamanuru
 Vijaywada Rural, Krishna Dist
 Andhra Pradesh
 Phone : +91 866 2842030
 Fax : +91 866 2843090, 2544031

Revathi Engg Ltd

Contact Person : Phanindra Gotety
 Designation : General Manager
 Address : Plot No 41, Sundernagar, SR Nagar, Hyderabad - 500 038
 Andhra Pradesh
 Phone : +91 40 23705335
 Fax : +91 40 23706868
 Mobile : +91 9000011727
 Email : revathigotety@gmail.com
 Website : www.revathiengineering.com

Rieco Industries

Contact Person : Chandrakant Patil
 Designation : Director
 Address : 1162/2, Shivajinagar, Behind Observatory
 Pune, 411005, Maharashtra
 Phone : +91 20 2553 5384 / 2553 5215
 Fax : +91 20 2553 3229
 Email : rieco@rieeco.com
 Website : www.rieeco.com

RMS Recorders & Medicare Systems (P) Ltd

Contact Person : Suman Jolly
 Designation : Managing Director
 Address : 181/5, Industrial Area, Phase I
 Chandigarh - 160 002
 Phone : +91 172 2658701, 2658703, 2658704
 Fax : +91 172 2653415
 Mobile : +91 9216001841
 Email : sjolly@rmsindia.com
 Website : www.rmsindia.com

Rohde & Schwarz

Contact Person : Apurva Pathak
 Designation : Joint Managing Director
 Address : A-27, Mohan Co-Operative Industrial Estate, Mathura Road
 New Delhi - 110 044
 Phone : +91 11 42535400
 Fax : +91 11 42535433
 Mobile : +91 9999107848
 Email : apurva.pathak@rohdeschwarz.com
 Website : www.rohde-schwarz.com

Rolta India Ltd

Contact Person : Kamal K Singh
 Designation : Founder Chairmen and CEO
 Address : Rolta Tower A, Rolta Technology Park, MIDC, Andheri (E)
 Mumbai - 400 093
 Maharashtra
 Phone : +91 22 29266666
 Fax : +91 22 28365992
 Email : indsales@rolta.com
 Website : www.rolta.com

Rourkela Steel Plant

Contact Person : D Shah
 Designation : DGM
 Address : SAIL, Bhilai - 490 001
 Chattisgarh
 Phone : +91 661 2510641, 2510646
 Fax : +91 661 2510085
 Email : rkl_mdsecrsp@sancharnet.in

RS Power Controls Pvt Ltd

Contact Person : Ishwar Bhatt
Designation : Managing Director
Address : No 9, Auto Tower, JC Road, Bengalooru - 560 002
Karnataka
Phone : +91 80 22244643
Fax : +91 80 22244980
Mobile : +91 9844000722
Email : rspowercontrols@gmail.com

RYB Switchgears Ltd

Contact Person : HK Garg
Designation : Managing Director
Address : 7th Floor, Big Jo's Tower, A-4, Netaji Subhash Place
Opp Wazirpur Depot, Pitampura
Delhi - 110 034
Phone : +91 11 27157036, 27157495
Email : rybswitchgears@yahoo.com

RSWM Limited

Contact Person : HK Garg
Designation : Managing Director
Address : Rajsthan Spinning and Weaving Mills Ltd.
(An LNJ Bhilwara Group Company), LNJ Nagar, Mordī District, Raj
Banswara- 327001
Phone : +91 2961 231230, 231630, 231650
Fax : +91 2961 231250
Website : www.rswm.in

S B Equipment

Contact Person : Kamal Goel
Designation : Managing Director
Address : 309, Durga Chambers 1333
DB Gupta Road, Karol Bagh
New Delhi - 110 005
Phone : +91 11 5788905
Fax : +91 11 5765715
Mobile : +91 9891088850
Email : gylkamal@rediffmail.com

S D S Electronics Pvt Ltd

Contact Person : Kamal Goel
Designation : Managing Director
Address : 352, Industrial Area, Phase II,
Panchkula – 134113, Haryana
Phone : +91 172-2591032, 2592898
Fax : +91 172-25912899
Email : info@sdsepl.com
Website : www.sdsepl.com

S K M Technologies & Co

Contact Person : B Krishna Rao
Designation : Managing Director
Address : D-5, Road No 7, IDA Kukatpally
Gandhinagar, Hyderabad - 500 037
Andhra Pradesh
Phone : +91 40 23077859, 23074913
Fax : +91 40 23075526, 23720294
Mobile : +91 9844209533
Email : Skm.technologies@yahoo.com

S M Creative Electronics Limited.

Contact Person : P Murugesh
Designation : Managing Director
Address : 10, Electronic City, Sector 18
Gurgaon-122 015
Phone : +91 124 2455203
Fax : + 91 124 2346465, 2455212
Website : www.smcel.com

SAARC Tooltech Ltd

Contact Person : P Murugesh
Designation : Managing Director
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Malumichampatti Post, Coimbatore - 641 021
Tamil Nadu
Phone : +91 422 2655152, 2655155, 2655156
Fax : +91 422 2655156, 2655157
Mobile : +91 9902007401
Email : saarctool@gmail.com

SABIC Innovative Plastics India Private Limited

Contact Person : Sakti Mohanty
Designation : General Manager (Defence/Transportation)
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DLF City Phase-III, NH-8, Gurgaon
Haryana
Phone : +91 124 4018001/5
Fax : +91 124 4018022
Mobile : +91 9811801315
Email : Sakti.mohanty@sabic-ip.com
Website : www.sabic-ip.com

Saft Batteries Ltd

Contact Person : Promod Mathur
Designation : Managing Director
Address : No C-9/9650, Vasant Kunj
New Delhi - 110 070
Phone : +91 11 26134221, 26134222
Fax : +91 11 26234223
Mobile : +91 9810059588
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Sahajanand Laser Technology Ltd

Contact Person : Yagnesh Zinzuradiya
Designation : Manager Marketing
Address : 41, New York, Tower-A
Near SG Highway, Thaltej, Ahmedabad - 380 054
Gujarat
Phone : +91 79 26854537
Email : yagnesh@sahajanandlaser.com

Sai Sharan Computers

Address : Plot No. 74, Ramana Priya Apts, North Kamalanagar
Hyderabad - 500 062
Phone : +91 27128846, 27126807
Fax : +91 27217219
Email : sai_sharan@yahoo.com
Website :

Samtel Display Systems Ltd

Contact Person : JK Dudani
Designation : Head - Business Development
Address : 6th Floor, Plot No 7, TDI Centre, Jasola
Delhi - 110 025
Phone : +91 11 42424000
Fax : +91 11 42424001
Mobile : +91 9810123384
Email : jkdudani@samtelgroup.com
Website : www.samtelgroup.com

SAN Engg & Loco Co Ltd

Contact Person : P Prakash Rao
Designation : Vice President
Address : Whitefield Road
Opp ITPL, Bengalooru - 560 048
Karnataka
Phone : +91 80 42449200
Fax : +91 80 28452260
Email : pr@san-engineering.com

Sanbob International

Contact Person : Sunil Chhabra
Designation : Managing Director
Address : 303-304, Sethi Bhawan
7 Rajendra Place
New Delhi - 110 008
Phone : +91 11 25759394
Email : sanbobinternational@hotmail.com
s.chhabra@bammads.com

Sandvik Asia Ltd

Contact Person : Rahul Kumar
Designation : Managing Director
Address : Mumbai-Pune Road, Dapodi
Pune - 411 012
Maharashtra
Phone : +91 20 27146491, 27146493
Fax : +91 20 27145022, 27145339
Email : www.sandvik.com

Sangam India Ltd

Contact Person : Rahul Kohli
Designation : Managing Director
Address : 12/474, Gwaltoli, Kanpur - 208 001
Uttar Pradesh
Phone : +91 512 2532082
Fax : +91 512 22691283
Email : rkohli-knp@dataone.in

Sangamitra Engineering Associates

Contact Person : M Ravi Kumar
Designation : Proprietor
Address : D No 49-12-15, 1st Floor,
Lalitha Nagar, Visakhapatnam - 530 016
Andhra Pradesh
Phone : +91 891 2721817
Fax : +91 891 2780086
Mobile : +91 9440356118
Email : ravi_sangu@sify.com

Sanghvi Aerospace Pvt Ltd

Contact Person : Kepam Sanghvi
Designation : Managing Director
Address : No 39, Lalit Warehouse, Narolsarkhej Highway
Narol, Ahmedabad - 382 405
Gujarat
Phone : +91 79 25350756
Email : sanghvi.cables@sprintprg.ems.vsnl.net.in

Sargam Metals Pvt Ltd

Contact Person : PV Vidyadhara Rao
Designation : Managing Director
Address : Sargam Metals Pvt Ltd, 2 Ramavaram Road, Manapakkam
Chennai 600 089, India
Phone : +91 44 22496732
Fax : +91 44 22491651
Email : cp@sargammetals.com
Website :

Saraswati Dynamics Pvt Ltd

Contact Person : Mukesh Goel
Designation : Managing Director
Address : 3-6-111, Himayath Nagar
Hyderabad - 500 055
Andhra Pradesh
Phone : +91 40 2395035, 23092380
Email : mukeshgoel@saraswatidynamics.com

Sashant Enterprises

Contact Person : Sashant Vasudev Gadre
Designation : Proprietor
Address : Plot No 2/10, S No 64-5
Vadgaon Budruk, Sinhagad Road
Behind Abhiruchi Hotel, Pune - 411 041
Maharashtra
Phone : +91 20 24394284
Email : swgadre@vsnl.net

Savan Ancillaries

Contact Person : Sunil Shivapurkar
Designation : Partner
Address : J-447, MIDC, Bhosari, Pune - 411 026
Maharashtra
Phone : +91 20 32314327, 65342796
Fax : +91 20 46768707
Mobile : +91 9921737160, 9922081120
Email : savanancillaries@gmail.com

SEC Industries (P) Ltd

Contact Person : B Subbanarasaiah
Designation : Vice President
Address : Plot No 6-25, Opp IDPL Project
Balanagar, Hyderabad
Andhra Pradesh
Phone : +91 40 23770260, 23771974
Fax : +91 40 23773613
Mobile : +91 9848406333
Email : mail@secindustries.com

Serendip Associates (P) Ltd

Contact Person : Shashi Kumar
Designation : Director
Address : B-III, 3rd Stage, Peenya Industrial Area
Bengalooru - 560 058, Karnataka
Phone : +91 80 28362692
Fax : +91 80 28362506
Mobile : +91 98450 44783
Email : serendip@airtelmail.in

Servo Max Precious Electronics Ltd

Contact Person : Venkateshwar Rao
Designation : Chief Executive Officer
Address : Plot 38, Electronic Complex
Exchange ECIL Post
Hyderabad - 500 062
Andhra Pradesh
Phone : +91 40 27131575, 27123927
Email : admin@servomax.net

SD Rubber Products

Contact Person : PV Vidyadhara Rao
Designation : Managing Director
Address : Shed No D-59, Phase-1, IDA Jeedimetla
Hyderabad - 500 055
Andhra Pradesh
Phone : +91 40 2395035, 23092380
Email : prpsdrpida@sify.com

Shakti Enterprises

Contact Person : SK Khanna
 Designation : Managing Partner
 Address : 125, Industrial Area, Sec-6
 Faridabad - 121 006
 Haryana
 Phone : +91 129 2241225
 Fax : +91 129 2247091
 Mobile : +91 9810112621
 Email : shaktienterprises@vsnl.net

Shanthi Gears

Contact Person : Kurup
 Designation : Senior Vice President
 Address : 304-A, Shanthi Gears Road
 Singanallur, Coimbatore - 641 005
 Tamil Nadu
 Phone : +91 91 422 2273722
 Fax : +91 91 422 2273884
 Email : info@shanthigears.com
 Website : www.shanthigears.com

Sheetal Wireless Technologies Ltd

Contact Person : Manish V Are
 Designation : Managing Director
 Address : Flat No 17, Sheshadri Society
 Plot No 1, Rambag Colony, Opp Rupee Co op Bank, Paud Road
 Pune - 411 038, Maharashtra
 Phone : +91 20 25467179, 25422941, 25453950, 64007732
 Fax : +91 20 25467179, 25422941, 25453950
 Mobile : +91 9822004313
 Email : manish@sheetalwireless.com, sheetalwireless@vsnl.net
 Website : www.sheelawireless.net

Shiva Engineering Works

Contact Person : KK Modi
 Designation : Partner
 Address : 2, Exchange Place
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Shivathane Linopack

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Sigma Engineers

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Sigma Microsystems Pvt Ltd

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Sika Interplant Systems Ltd

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Simulation Designs India Ltd

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SM Pulp & Packaging Ltd

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SMZS Chemical Ltd

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Sneh Engg Works

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Sobha Applied DSP Ltd

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Soft Aid Computer (P) Ltd

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SPJ Embedded Technologies Ltd

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Texplus Fibres Pvt Ltd

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Thermax Ltd

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Fax : +91 80 23307227
Email : aseswan@turbotechindia.com

Turbocam India Pvt Ltd

Contact Person : Carvalho
Designation : General Manager
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Curtorim Post, Salcete
Goa - 403709
Phone : +91 832 2860387, 2860176
Fax : +91 832 2860012
Email : sales@turbocmpindia.com

Tushar Enterprises

Contact Person : Sujata Sudhir Samant
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Phone : +91 20 27474614
Fax : +91 20 27474614
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Two M Company

Contact Person : M Loganathan
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Main Road, Dodda Banaswadi, Bengalooru
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Phone : +91 80 25455826
Fax : +91 80 25455826
Email : twomcompany1991@yahoo.co.in

Tyco Electronics Corporation India (P) Ltd

Contact Person : GS Arunsimha
Designation : Country Manager-Sales, Aerospace, Defence & Marine
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Karnataka
Phone : +91 80 28540800, Ext 116
Fax : +91 80 28540826, 0820
Mobile : +91 9845178910
Email : aruns@tycoelectronics.com
Website : www.tycoelectronics.com



UK Paints (India) Ltd

Contact Person : Sunil Sharma
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Kailash Colony Extension
New Delhi - 110 0478
Phone : +91 11 29240394
Fax : +91 11 29247864
Email : rpl@rajdootpaints.com, jessy@rajdootpaints.com

Ultra life Batteries India Private Limited

Contact Person : N Manjanatha Rao
Designation : Director
Address : SHK Building, Varthur Main Road
Siddhapura, Bangalore- 560 066
Phone : +91 80 28524680
Fax : +91 80 28524690
Website : www.ultralife corporation.com

Uni-Automation (India) Pvt Ltd

Contact Person : KV Karpudekar
Designation : Head
Address : Susangat, 47, Mittra Mandal Colony
Pune - 411 009
Maharashtra
Phone : +91 20 24440890
Fax : +91 20 24440890
Email : vkm@uniautomation.com

Uni Trade Corporation

Contact Person : Prakash Rajani
Designation : Partner
Address : 793, Vaikunth Annexe, Above Arvind Eye Clinic
Sindhi Society, Chembur, Mumbai - 400 071
Maharashtra
Phone : +91 22 25227199, 25225601
Fax : +91 22 22092485
Email : unitradecorporation@yahoo.co.in



Unifex Cables Ltd

Contact Person : V K Bajaj
Designation : Manager
Address : 12/13, Jyothi Wire House, 23A, Shah Industrial Estate
Off Veera Desai Road, Andheri (W) Mumbai - 400053
Phone : +91 22 2674 0001
Fax : +91 22 2674 0600
Email : corporate@uniflex.in
Website : www.unicab.com

Unifrax India Ltd.

Contact Person : Mr Rajendra Patil
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Mumbai - 400093
Phone : +91 22 2921 2200
Fax : +91 22 2921 2249
Email : unifrax.mumbai@unifrax.co.in

Uniglass Industries Pvt. Ltd

Contact Person : N A Shankar
Designation : Sr. Executive Sales
Address : Sy No.125/1B, 111/1C, 129/1C, Near KSRT Depot, Mysore Road
Kengeri Bangalore-560 060
Phone : +91 2848 3042/43/44
Fax : +91 080 2848 3041
Email : shankaruniglassindia.com
Website : www.uniglassindia.com

United Phosphorus Ltd

Contact Person : JR Shroff
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Mumbai - 400 052
Maharashtra
Phone : +91 22 26041111, 26045250
Fax : +91 22 26487523
Email : shroffjr@uniphos.com



United Rubber Industries Pvt Ltd

Contact Person : Bhajraj Shetty
Designation : General Manager (Marketing)
Address : Jay Vallankani Industrial Estate, Behind Gas Godown
Bhayandar Kashi Mira Road, Bhayandar (East)
Mumbai - 401 105
Maharashtra
Phone : +91 22 28145134, 28145135, 28145136
Fax : +91 22 28184614
Email : unirubin@vsnl.com
Website : www.unitedrubberindustries.com

United Techno Projects

Contact Person : Mohan Kumar
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Address : Srivari Nilayam, 3C-714, 3rd Cross
Kalyananagar 1st block, HRBR Layout
Bengalooru - 560 043
Karnataka
Phone : +91 80 25421810, 25425183
Email : utppl_rmk@yahoo.com

United Tool Room & Engg Works

Contact Person : Awtar Singh
Designation : Managing Director
Address : Plot No 4, S No 47/30, Satara Road, Arenyeshwar Lane
Pune - 411 009
Maharashtra
Phone : +91 20 24229323, 56201015
Mobile : +91 9370206141
Email : gurpreet_gurdev@rediffmail.com

Urja Tantra

Contact Person : Mr Girish Ganegaonkar
Designation : Owner
Address : B-4, Yogesh Apartment, Mumbai Bangalore Highway, Wadgaon Budruk
City : Pune-411041
Phone : +91 08 447504696
Mobile: 912024358041
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V D Valenkar Comm Artist

Contact Person : VD Valenkar
Designation : Head
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Pune - 411 030
Maharashtra
Phone : +91 20 24455933
Fax : +91 20 24451457
Email : prakashoffsetpune@yahoo.co.in

V K Rubplast(I) Pvt Ltd

Contact Person : V.K. Tandon
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Address : B-36, IDC, Mehrauli Road, Gurgaon
Phone : +91 124 474 8223
Mobile : +91 9871383696
Fax :
Email : info@vkrubplast.com, vkrubplast@yahoo.com
Website : www.vkrubplast.com

V P Enterprises

Contact Person : MS Kugaonkar
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Address : S B No 25/4/6, Sheetal Co-op Hsg Society, Flat No 11
Sinhagad Road, Vithalwadi Hingne Khurd, Pune - 411 051
Maharashtra
Phone : +91 20 24349751, 24347407
Fax : +91 20 24349751, 24347407
Mobile : +91 9822501194
Email : vpent@vsnl.net

Vaayu Tech Engineering

Contact Person : Mr Mridul Gupta / Mr. Sandeep / Mr. Afsar
Designation : Partner
Address : No. 48, 2nd Floor, Navyug Market
Ghaziabad - 201 001, Uttar Pradesh
Phone : +91 8447515697, +91 120 276 1033
Fax : +91 120 276 1032
Email : info@vaayutech.com
Website : www.vaayutech.com



Vajra Rubber Products (P) Ltd

Contact Person : Mr Sachindranath PS
Designation : Director
Address : P.O. Konathkunnu, Thrissur Dt.
Kerala - 680123
Phone : +91 480 286 0402
Fax : +91 480 286 7380
Email : contact@vajrarubber.com
Website : www.vajrarubber.com

Valeth Hightech Composites (p) Ltd

Contact Person : Peter Valeth
Designation : Managing Director
Address : 56, Kazhipattur, Padur Post, Kelambakkam
Chennai- 603103, India
Phone : +91 480 286 0402 Mobile: +91 8939965025
Fax : +91 44 2747 5472
Email : enguiry@valeth.com
Website : www.valeth.com

Vamshee Industrial Products

Contact Person : Durga Prasad Rao
Designation : Proprietor
Address : H No 4-132, Backside of St Martins High School, Ferozguda
Hyderabad - 500 011
Andhra Pradesh
Phone : +91 40 23770078, 23771991
Fax : +91 40 23770590
Email : vamsheeindl@yahoo.co.in

Var Electrochem Pvt Ltd

Contact Person : Dr M Durga Prasad
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Andhra Pradesh
Phone : +91 40 27262351
Fax : +91 40 27265224
Email : varelectrochem@yahoo.co.in



Vectra Advance Engg Pvt Ltd

Contact Person : Ashok Kumar
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Phone : +91 80 41290011
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VEM Technologies Pvt Ltd

Contact Person : JP Sharma
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Ranga Reddy Dist}, Hyd - 500 090
Phone : +91 2304 6633, 2304 7733
Fax : +91 2304 6655, 2304 7755
Email : infor@vemtechnologies.com
Website : www.vemtechnologies.com

Verdant Composites

Contact Person : Santosh Kumar
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Kerala
Phone : +91 484 2663104
Fax : +91 484 2663576
Email : info@verdanttelemetry.com
Website : www.verdanttelemetry.com

Versa Byte Data Systems Pvt Ltd

Contact Person : PS Reddy
Designation : Managing Director
Address : 24/6, 20th Main, 1st R Block, Rajaji Nagar
Bengalooru - 560 010, Karnataka
Phone : +91 80 2357 8535 / 2347 1936
Fax : +91 80 23372674
Mobile : +91 9845035640
Email : psreddy_vds@yahoo.com



Vijay Sabre Safety Ltd

Contact Person : Sajan T Menon
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Address : Plot No 35, Chandivali, Off Saki Vihar Road, Sakinaka, Andheri (E)
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Phone : +91 22 28475036, 28474045, 28478780, 28478785
Fax : +91 22 28470021
Email : vijaysabre@vsnl.net
Website : www.vijaysabresafety.com

Vinarc Engineers

Contact Person : Vineet Marthe
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Phone : +91 20 27121622
Fax : +91 20 27129993
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Viswaat Chemicals Ltd

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Volvo India Pvt Ltd

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VXL Technologies Ltd

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Haryana
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Walchandnagar Industries Ltd

Contact Person : PD Ganorkar
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Wavelet Group

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Fax : +91 20 22951904
Mobile : +91 9860219911
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Webel Mediatronics Ltd

Contact Person : Gautam Barman
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Email : wml.ceo@gmail.com, wml.comsec@gmail.com

Wildcraft India Pvt Ltd

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Email : dineshks@vsnl.net



Welmech engineering company pvt ltd (India)

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Contact Number : 91-044-26252880
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Email : welmech@vsnl.com
Website : www.welmech.com

Wipro Technologies

Contact Person : Puneet Kumar
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Wire Flatteners

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Phone : +91 22 28180216
Fax : +91 22 28191563
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Website : www.wireflatteners.com



XYTEL Pvt Ltd

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Address : Address:EI-13-14, J Block, MIDC, Bhosari
Pune 411 026
Phone : +91 20 40737700
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Yasha Plastics

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Yuvraj Chemicals Pvt Ltd

Contact Person : Yuvraj Shergill
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Phone : +91 20 24338118, 24438472
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Email : yuvrajys@vsnl.net

Yogashri Heavy Engineering (P) Ltd

Contact Person : R. Pushparaj
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Hosur -635126, Tamil Nadu
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Mobile : 94432 46665
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Email : yogashri@sify.com
Web : www.yogaasri.com



Zenith Industries

Contact Person : RV Rajasekhar
 Designation : Managing Partner
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Zeonics Defence & Aerospace Engineers

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 Fax : +91 80 25244810
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 Website : www.zeonics.org, www.systechcapacitors.com

Zetateck Industries Pvt Ltd

Contact Person : R Shiva Kumar
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Zeus Numerix Pvt Ltd

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 Fax : +91 22 25767112
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Addendum

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CIREL Systems Private Limited

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MOSCHIP Semiconductor Technology Limited

Contact Person : C Dayakar Reddy
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Email : mhw@modelhosiery.com
Website : www.moschip.com

Perftrends Technologies Private Limited

Contact Person : R Swaminathan
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Fax : 044-24502583
Website : www.perftrends.com

Real Time Tech Solutions Private Limited

Contact Person : K Natarajan (S/W Division)
Designation : Senior Vice President
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18th Cross, Malleswaram
Bangalore - 560055

SITAR

Contact Person : Dr KSRC Murthy
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Fax : 080-25653590

Uurmi System Private Limited

Contact Person : Bathiri Srinivas
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Address : Door 860/A, Road No. 45, Jubilee Hills
City : Hyderabad - 500 033
Phone : 30146500
Fax : 30146565
Website : www.uurmi.com

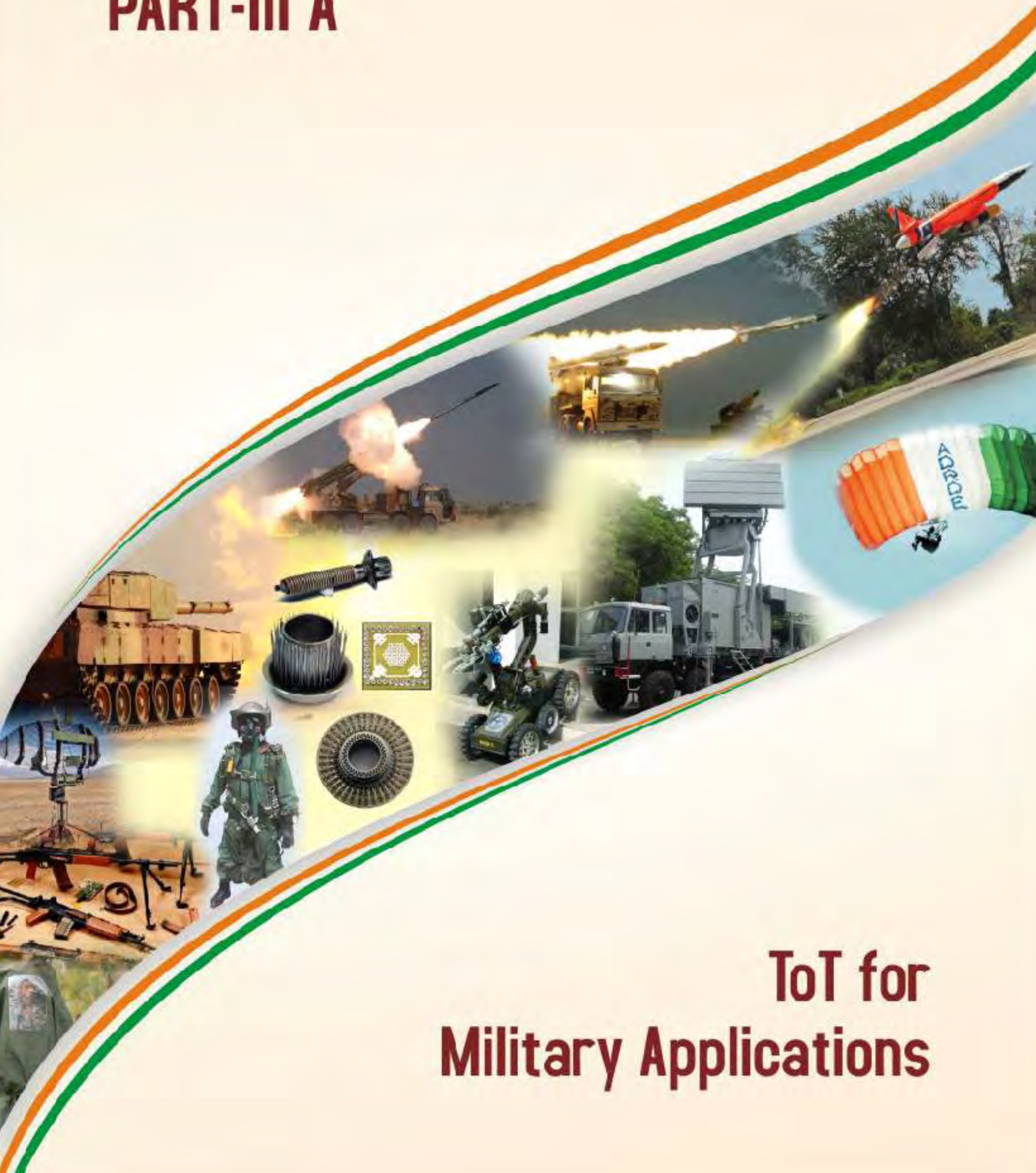
Transfer of DRDO developed Technologies to Industries

For past five decades, DRDO has been developing technologies, products, systems that are required for Indian Armed Forces. These developments are undertaken through projects as Mission Mode (MM), Technology Demonstrator (TD), Science & Technology (S&T) and Infrastructure (IF). In addition, DRDO also undertakes/ supports various technologies & products whose developments are handled through Research Boards, Extramural Research and grant-in-aid schemes. In the process of these developments, DRDO has been generating Intellectual properties, trade secrets and copyrights and a institutional mechanism is in place to adequate action to protect these IPs.

Once the system is trial evaluated and accepted by Armed Forces, the technology is transferred to the Indian industries to manufacture for meeting the requirements of Indian Armed Forces. While transferring the technology to the Indian Industries, DRDO provides the relevant 'know-hows' & 'know-whys' to enable Industries to add value. This is a qualitative difference for the Industries when they acquire technology from the foreign OEMs wherein such value addition is prohibited at the receiver's end and all such value addition happens at OEM's end and often a new licensing agreement is required to be entered into by the industry for the value added product. Therefore the benefit to the industry to partner with DRDO is many fold. It enhances their capability to face global competition. Moreover, many of the DRDO developed systems and technologies have potential for spin-off in commercial sector and even for export. Thus, Transfer of Technology (TOT) of DRDO developed technologies to Indian Industries contributes to Technological Self-Reliance, Industrial Growth and National Development.

By involving the Indian Industries during the development cycle, many of the Indian private sector industries have moved up the value chain from Built to Print (B2P), Built to Specification (B2S), Built to Design (B2D) and Built to Requirements (B2R). Today, some of these companies can also take up the responsibility of Lead System Integrator (LSI) and many of them can manufacture technologically advanced products that are in conformity with the MIL and AERO standards and of world class. By participating in DRDO projects, today there are around 1000 Indian Private Sector Industries all over India, who are capable of manufacturing High Technology Systems/Sub Systems/Components in the fields of Missiles, Avionics, Electronic Warfare, Naval Systems, Combat Vehicles and Life Sciences (Details of these Industry Partners and their contribution is mentioned in this compendium). Many of these companies may not have large turnover but their technological specialization is world class and sometimes unique. This has catapulted many of these industries from "suppliers of products to DRDO" to "suppliers of products to multinationals". In fact many of these industries are working as Tier-Two and Tier-Three companies for world's leading technological giants.

PART-III A



**ToT for
Military Applications**

Active Char Products P. Ltd.

B-No. 615, Industrial Development Area
Binanipuram, Edyar, Ernakulam - 683 502
Kerala

Tel: 0484 - 255 6514/18, 658 6362

Fax: 0484 - 255 6516

- **Polladium Impregnated Carbon**
- **Impregnated carbon(Whetlerite**
- **Impregnated Carbon for Air Cleaning Filters for Object**

Adigear International

A-40, Mayapuri Industrial Area
New Delhi -110064

Phones: 91-11-4183 3638-44

Fax: 91-11-4183 3637

Email: adigear@vsnl.com

- **FR Overall**

Aeronav Industrial Safety Appliances

E-24, Sector VII
Noida-201301, U.P

Tel: +91 120 4241514, 242 5514

Fax: +91 120 424 1514

Email: anisaman@aeronav.org

- **FR Anti G Suit**
- **FR Gloves**
- **FR Overalls**
- **Aircrew Survival Jacket**
- **Upgraded Arctic gloves with Active Heating Element**
- **Thermal Vest**
- **Thermal Drawers**
- **Upgraded Nato Suit**

Allied Industries

Martand, Gandhi Chowk, Kalyan –
421301, Factory : F-36, M.I.D.C., Ambad, Nasik-
422010

Tel : 0091-251-2207206

Fax : 0091-251-2203468, 0251- 221 2976

0091-253-6607752

Fax : 0091-253-6607751

Email: allied_nashik@yahoo.com

- **Manufacturing Process for Peizocomposite Transducer Elements**

Arnaf Futuristic Technologies(P) Ltd

H-43, Connaught Circus
New Delhi - 110001

- FR Overalls
- Aircrew Survival Jacket
- Flame Retardant Automatic Inflatable Life Jacket
- FR Gloves
- FR Anti G Suit

BEL

NDA Road, Pashan, Pune- 411021
Ph 258 81400-02
www.bel_india.com

- Integration of modernized NBC Protection System of BMP - 2/2K

Bharat Electronics Ltd

NDA Road, Pashan
Pune 411 021

- LSP of ROV 'DAKSH' Project No. LSP-09/RDE-408

Cathodic Control.Co.Pvt Ltd

Plot No.87, III Phase, Industrial Area
Bangalore- 560 058
Phone : 91-080-839 5327/839 5328
Fax: 080-839 5807
E.mail: ppil@giasbg01.vsnl.net.in
ppil@satyam.net.in

- Advanced ICCP system including ACU, platinised titanium anodes and silver-silver chloride electrodes and low potential sacrificial anode
- Manufacture and supply of ICCP system and galvanic aluminium alloy system (Revised)

C.I. Laboratories

(Shibpore) 493, GT Road South)
Shibpore ,Howrah-711102
Tel: +91 33 2221 8455, 22218456
Fax: +91 33 2419 0744
Email: icbharech@rediffmail.com

- Antifreeze coolants DAFC 30 & DAFC 50

Dass Hitachi Ltd

8/9, Milestone, GT Road Sahibabad, PO Mohan
Nagar Ghaziabad – 201 007
Tel: 0120-263 4661, 263 8400, 263 8500
Fax: 011-2301 0128, 263 4660
E-Mail: dhl@dasshitachi.com

- **Autoject Injector (Reusable)**

Dynalog (I) Ltd

Corporate Plaza, SB Road
Shivajinagar, Pune 411 016

- **LSP of ROV 'DAKSH' Project No. LSP-09/RDE-408**

Frontier Textiles Pvt. Ltd.

40/3, Madan Biswas Lane
Salkia, P.S Golabari
District, Howrah - 711 106
India

- **FR Flying Overall**

Gujarat Fluorochemicals Ltd

INOX Towers, Plot No. 17, Sector 16-A
Noida - 201301 U.P.,(India)
Tel: +91 120 614 9600
Fax: +91 120 614 9610
Website: www.gfl.co.in
E-mail: inoflon@gfl.co.in, contact@gfl.co.in

- **Heptafluoropropane (HFC 227ea)**

Gulf oil Corporation Limited

IN Centre, 49/50, MIDC, 12th Road
Marol, Andheri(E), Mumbai- 400093
Tel: 022-66487777
Fax: 022-28248232/33.
Email: gocl-reply@gulfoil.co.in

- **DAG Primer for MILAN 2T Missile**

Hindustan Metal Industries

Shri Radhesh Bhawan, Opposite Shujabad
Bhawan, Nai Sarak, Gwalior - 474 001
Tel: 0751 262 7140
Fax: 0751 232 7492
Mob: 94253 09591

- **NBC Canister Neelkantha 'P'**

Hi-Tech Carbon & Catalyst

Plot-J 405/4 Road No. 4 GIDC, Panoli
(Guj.) - 394 116.)
Mobile No. : 09824111937

- **Polladium Impregnated Carbon**

HYT Innovative Projects Pvt. Ltd.

15, Vishrambaug Housing Society, Senapati
Bapat Road, Pune - 411 016

- **Manufacturing of HEMRIN-EPDM
based rocket motor insulation**

Ideaforge Technology Pvt. Ltd

Office No 4, 4th Floor, IIT Bombay
Powai, Mumbai

- **Ground Control Station for
Unmanned Aerial Vehicle**
- **UAV 'NETRA'**

Iftex Oils & Lubricants

5th Floor ,Sangeet Plaza ,Marol Maroshi Road
Andheri East ,Mumbai - 4 0 0 0 5 9

Tel: + 9 2 2 859 8128

Fax: + 9 2 2 859 8136

Email: anoopsharma@iftex.com

- **Antifreeze coolants DAFC 30
DAFC 50 & Recoil fluid DAFC 60**

Indesys Equipment Pvt. Ltd

47, Industrial Estate Lonavala, Pune-410 401
Tel 2114-272681
Web: www.idsipl.com
Email: idsipl@gmail.com
Fax: 02114-273465

- **Gamma Flash Sensor**
- **Roentgenometer**

Indotech Group

C-8/8490, Vasant Kunj
New Delhi- 110070
Tel: +91 11 2678 6288, 2678 3379
Fax: +91 11 26786288

- **Flame Retardant Overall**

Instrumentation Limited

Kota - 324 005
Tel 0744-2424591-98
Email: ilkgmk@sancharnet.in
Fax: 0744 2424322

- **RPL Reader Mk - II**
- **Gamma Flash Sensor**
- **Roentgenometer**

Intel Design Systems(India) Pvt. Ltd

47, Industrial Estate, Lonavala
Pune-410 401

- **BCU**
- **Cable Harness of Modernized NBC Protection System of BMP**

Joseph Leslie Drager Mfg. Pvt. Ltd.

Leslieco House 4th Floor, 87-C Bhawani Shankar
Road, Dadar (W), Mumbai - 400 028
Tel. No. 022-2422 7198
Fax No. 022-2430 3705

- **NBC Canister Neelkantha 'P'**

Larsen & Toubro Limited

L & T House, N. M Marg
Ballard Estate
Mumbai- 400001

- **Integrated Life Support System(ILSS)**
- **Helicopter Oxygen System**
- **Lakshya-2 APTA(Advanced Pilotless Target Aircraft)**

Manisha Rubber Enterprises

50, Unique Industrial Estate
Dr. Rajendra Prasad Road
Opp. Jawahar Cinema, Mulund (W)
Mumbai- 400 080
Tel: 617712 / 2561 2443
Fax: 022-2564 8235
Email: sales@manisharubber.com
Web : www.manisharubber.com.

- High performance 'O' rings for static and dynamic applications
- Rubbing Strakes
- Poly List Dock Blocks

Maetros Mediline Systems Limited

Plot no. EL-63, Electronic Zone, TTC Industrial Area, MIDC, Mahape, Navi Mumbai - 400701
Tel: +91 41193200/100
Fax: +91 22 27622153/ 41193130

- Portable Handheld Physiological vital Parameter Monitor(PPVPM)

Murali Engg. & Press Metals

145, 11th Main, 12th Cross Malleswaram, Bangalore-3

- Hawk Mask

Navdeep Pvt Ltd

1151, Sector-15
Faridabad-121 007

- Light Weight Integrated HAWK Helmet

Neon Laboratories Ltd

Damji Shamji Ind. Complex
M. Caves Rd. Andheri (E) Mumbai-400 093
Tel:91-22-2687 5366 / 2687 5368
Fax: 91-22-2687 3502

- Drug Cartridge for Autoject Injectors

Next Millenium

E-153, Greater Kailash, Part - II
New Delhi-110048

- FR Gloves
- FR Overalls
- Aircrew Survival Jacket
- Upgraded Nato Suit

NTB-Hi-tech Ceramics

622/2, Kuruli, Near Chakan, Pune-Nashik
Highway, Taluka-Khed, Pune-410501
Phone : 02135- 325943/44/45
Fax: 02135 252429,
Email: beltun@ntbindia.com
Website: www.nbcerech.com/www.siegling-
india.com

- Technology for zirconia powders
and ZTA ceramic products

Nucleonix

Plot No. 162 A & B, Phase -II
I.D.A, Cherlapilly
Hyderabad - 500 051

- RADMAC
- ACU

Pla Electro Appliances Pvt. Ltd.

Thakor Estate, Kurla Kiroi Road, Vidhya Vihar
(W), Mumbai- 400086
Tel: 022-2511 6864
Web: www.plaelectro.com
Email: pla@dom3.vsnl.net.in
Fax: 022 2516 8948

- Integrated Control Panel for NBC
Recce vehicle

Poona Measuring Tools

60 East Khadkee, Line Bazar, Near Holkar
Bridge, Pune
Mob: 8149443069
Fax: 020- 2650 5219
poonameasuring@gmail.com

- Manufacturing Process for
Peizocomposite Transducer
Elements

Premier Explosives limited(PEL)

Premier House, 11, Ishaq Colony Near AOC
Centre Secunderabad 500015 AP(India)

- **SQUIB(Cartridge Electrical) for IFDSS**
- **1200CC, 2400CC and 6000CC pellet Type gas generator**
- **Manufacturing of Fuel Rich Sustainer Grains for Akash Missile**
- **Manufacturing of BKNO3 pellets of ME-445 Compostion**
- **Chemical - CR**
- **Oleoresin based Grenades**

Rajasthan Metal Smelting Co.

D-80, Road No.7, VKIA
Jaipur- 302 013

- **Hapo Chamber**

Raksha Polycoats Pvt Ltd

S-17, 'T' Block, M.I.D.C Bhosari
Pune-411026

- **Hydro Suit**
- **Seaking Float**

Sarazen Research & Development Organisation

Near Transport Nagar, Shankarpur
Gwalior(MP)

- **CC-2 Suspension**

Sargam Metals Pvt Ltd

No.2 Ramavaram Road, Manapakkam
Chennai- 600 089
Phone: 044 2249 0885
Fax: 044 2249 1651
Email: sargam@md2.vsnl.net.in

- **Manufacture and supply of ICCP system and galvanic aluminium alloy system**
- **Advance ICCP system, platinised titanium anode, silver-silver chloride electrode, ACU and low potential aluminium sacrificial anodes**
- **Active Shaft Grounding System**

Shakti Enterprise

125, Industrial Area, Sction-6
Faridabad-121 006

- **CFF Mask**
- **CFF Helmet**
- **Hawk Mask**
- **Light Weight Integrated HAWK Helmet**

SRP Adhesives(Pvt) Ltd

Plot No 7, Akrapur
Industrial Estate, Unnao (U.P)

- **Fluid Engine Starting Aid**

Star Wire (India) Ltd

21/4 Mathura Road, Ballabgarh, - 121 004
Haryana, Registered Office at

M/s Star Wire (India) Ltd.

A-11, Nizamuddin West, New Delhi-110013
Phone : 91-129-2241264, 409 4200, 409 1270
Fax : 91-129-224 1265
Email : Sanjeevmahajan@splsteel.com
Defencemktg@splsteel.com
Email : vkgupta@splsteel.com

- **Alloyed Core Wire for SAW and GMAW welding of high strength and high toughness structural steels**

Superior Fabrics

21, Shri Ram Road, Civil Lines
Delhi- 54

- **FR Air Crew Survival Jacket**
- **FR Gloves**
- **FR Overalls**
- **FR Anti G Suit**

Tan Enterprises

397, GF, Masjid Moth
South Extn. Part II
New Delhi- 110 049

- Hawk Mask
- Helicopter Oxygen System
- Aircrew Survival Jacket
- Flame Retardant Overall
- Flame Retardant Gloves
- Light Weight Integrated HAWK Helmet
- CFF Mask
- CFF Helmet
- CFF DDOR

Thermopads Pvt., Ltd.

28, Nagarjuna Hills, Punjagutta
Hyderabad- 500 082

- Heated Shoe Insoles for use with Boot Furline High Altitude
- Electrically heated Gloves with active heating elements

Theta Controls

1, Electronic Estate, Pune
Satara Road, Pune 411 009

- LSP of ROV 'DAKSH' Project No. LSP-09/RDE-408

United Rubber Industries (I) Pvt..Ltd

Jay Vailankani Industrial Estate
Mumbai- 401105

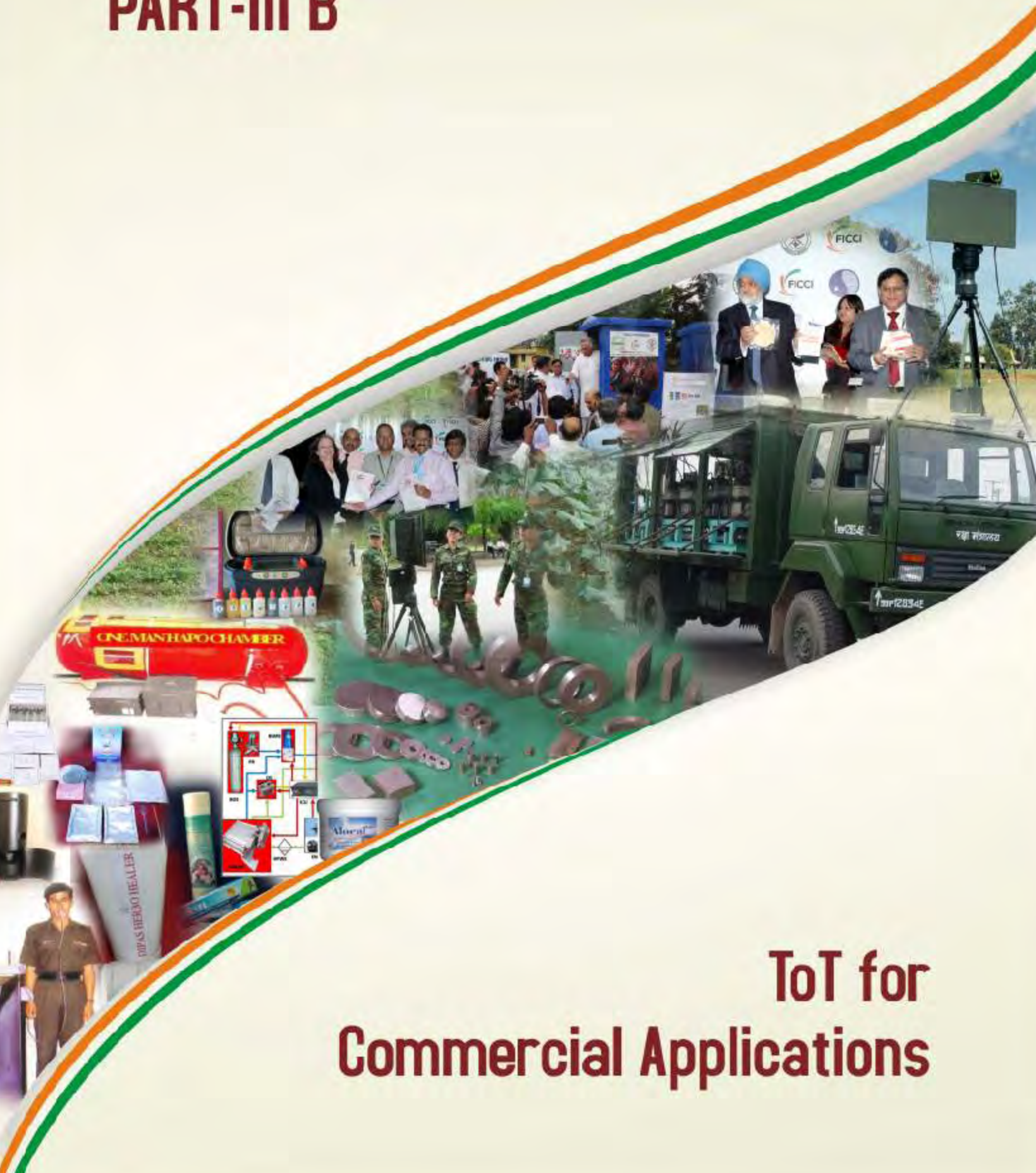
- CFF Mask

Vijay Sabre Pvt. Ltd

35,Chandivali Village, PO Bax 8960
Mumbai- 400 072

- Helicopter Oxygen System

PART-III B



**ToT for
Commercial Applications**

Advance Paints Pvt.Ltd

“Advance House “Plot ‘A’, Makwana, Road, Ark Industrial Compound, Marol Naka, Andheri (E) Mumbai- 59

Phone- 2859 0162/63/64

Fax: 2852 8826

E-mail: advokote@vsnl.com

Website: www.advancepaints.com

- **Heavy Duty Non-Skid, High Performance Exterior & Intumescent Fire Ret Paints**

AIMIL Pharmaceuticals (India) Ltd

2994/4, Street No.17, Ranjeet Nagar New Delhi - 110 008

- **Herbal Products, Anti-Lecoderma, Anti-Eczema & Anti-Toothache**

Airflow Equipments (India) P. Ltd

9 Chellaiamman Koil Street Chennai-600117

Fax: 044- 2247 4784

- **Railway Biodigester**

Ajit Chemicals Pvt. Ltd.

103-A, Co-operative Industrial Estate Dadanagar Kanpur- 208 022

- **Food Container Plastic 5.5 litres for Extreme Cold Condition**

Akzo Nobel Coatings India Pvt Ltd

Plot No. 62, P62A, 62B,43F, Hoskote Industrial Area, Bangalore- 562 114

Tel : +91222834062 /283 1831, 080 2289 5000

Fax : +91222871989, 080 2289 5500

E-mail : www.internationalpaint.com

www.akzonobel.com

- **Production of heavy duty non-skid paint**

Alfa Systems & Services

E-19-C, Sector 8, Noida

- **Stationary Biodigester**

Alfa Therm Limited

6, Community Centre, Mayapuri, Phase-I
New Delhi -110 064.

Tel: 011-2811 5222, 2811 6222

Fax: 011-2811 5396

- **HA Biodigester**

Alkyl Amines Chemicals Ltd

401-407, Nirman Vyapar Kendra, Plot No.10
Sector 17, Vashi, Navi Mumbai - 400 703

Tel: 022 2493 0699 / 2493 385

Fax: 022 6794 6666

- **Revised process of Diethyl Phenyl Acetamide(DEPA) and formulation 50% and 20% in lotion**
- **Attractide (Combination of C-21 and IGR)**

Amalgamated Industrial Composite Pvt.Ltd

111/112, Ashok Service Industrial Estate
L.B.S.Marg Bhandup (W) Mumbai- 400 078

Phone:022 -2596 4566/2596 3611

Fax : 022-2596 3611/2534 6920

Email: info@aicomposites.com

Website: www.aicomposites.com

Amalgamated Industrial Composite Pvt.Ltd

Plot No.D-51, MIDC, Ambad, Nashik- 422 010

Tel: 0253-2382851

Fax: 0253-2380963

Email: info@aicomposites.com

aicomposites_nsk@dataone.in

- **Porous Carbon paper**

Amit Biotech (P) Ltd

Unit No.21 Ballygunj, Circular Road
3rd Floor
Kolkata 700019
Phone : 033 2486 6454
Fax: 2486 4118

- **Long Lasting Insectional Mosquito Net(LLIN)**

Andhra Polymers Pvt. Ltd

Span Solitaire, 6-3-1090/B/5, Raj Bhavan Road
Hyderabad- 500 082
Email: rubber@applind.com
Phone: 040-2344 2260
Fax: 040-2340 2095

- **Acoustic rubber tiles 20mm**
- **Acoustic rubber tiles**

Anjana Steel Industries Pvt., Ltd

Dhiringa More, NH-2 Delhi Road, Baidyabati
Distt.-Hoogly (WB)
Phone: 0 33 2226 4688/89/90 : 033 2632 4103
Fax: 033 4006 2785

- **Railway Biodigester**
- **Stationary Biodigetser**

Arkin Creations Pvt. Ltd.

H-127, 1st Floor, Residency Greens, Greenwood
City, South City-1, Gurgaon-122001
Ph: 09650682111
Mob: 09818432020
Email: arkincreations@gmail.com
Website: www.arkin.org.in

- **Bio-Digester**

Bajaj Engineers & Consultants Co

491-492, Modern Industrial Estate
Bahadurgarh - 124 507

- **Food Container Plastic 5.5 litres for Extreme Cold Condition**

Banka Enterprises

A-111 Express Apartments
Near Ganga Jamuna Hotel, Lakdi ka Pool
Hyderabad 500004
Fax: 040-6668 8028
Email: enterprises.banka@gmail.com
Mobile: 9246880060

- **Bio-Digester**

Besco Limited (Foundry Division)

Foundry Division. 7th Floor
Poonam 5/2 Russel Street
Kolkata- 700 071
Ph: 033-2227 6784, 2226 3964
Fax: 033-2226 1406

- **Biodigester**

Bhat Bio-Tech India (P) Ltd

No. 47, 38th Main, 6th Cross, BTM Layout 2nd
Stage, Bangalore – 68.
CP: Dr. Shama Bhat (MD)
Tel: 080-2783 3473, 2783 3620
Fax: 080-2783 3621

- **ICT on Resin**

Bigtech Pvt. Ltd

II Floor, SID Entrepreneurship Centre
IISc Campus
Bangalore- 560 012

- **H1N1 Lamp Assay**

Biotech International Ltd

B-21, Site C, Surajpur, Greater Noida
U.P- 201306
Tel: 0120-256 1067, 68, 70 (P)
Fax: 0120-256 1069(F)
Vipps Centre, 2, Local Shopping Centre
Block EFGH, Masjid Moth, Greater Kailash-II
New Delhi- 110 048
Email: bilprod@biotech-int.com
Website: www.biotech-int.com

- Herbal Mosquito Larvicidal Floating Tablet
- Herbal Mosquito Repellent Vaporizer
- Larvical Floating Tablet
- Bio-larvacide Bacillus Sphaericus DRLT-138
- Herbal Floor Cleaner
- Room Freshener cum Mosquito Repellent
- Cordyceps Sinesis

Biotron Healthcare(India) P. Ltd

301, Coral Classic, 20th Road
Chembur, Mumbai 400071
Email: venkatesh@biotronhealthcare.com
Mobile: 98200 10799

- Chikungunya - RT Lamp for Detection of Chikungunya Fever

BSA Corporation Ltd

Gat No. 2329, A/1, S.no 279
281, 287, Wagholi
Pune, India - 412207

- Biodigester

Buhania Bros

D-56, Sitapuri Part-I, Gali No.18
Near Pankha Road
New Delhi -110 045
Tel: 011-2550 8104
Fax: 011-2561 2934
Email: buhania@hotmail.com

- Biotank

Calco Polychem Pvt. Ltd

M-8, Badli Industrial Estate
Delhi-110042, India
Email: varun@calcopolychem.com
Mobile: 9711683338

- Masterbatch of Photo Degradable Plastics - LDPE and LLDPE

CBS Technologies Pvt. Ltd

48-C, Pocket-C (HIG) SFS Flats, SFS Flats
Mayur Vihar, Phase-III, Delhi- 110 096
Tel: 011- 2352 4833, 2261 3408
Fax: 011- 2236 0733, 2261 3362
Email: cbstechnologment.com/
Website: www.cbsenergy.com

- **HA Bio-Digester**

Century Pharmaceuticals Ltd

406, World Trade Center
Sayajjiganj, Vadodara - 390005

- **Biodigester**

Crowe & Company

975 Bacons Bridge Road
Summerville, SC 29485- 4118

- **Explosive Detection Kit**

CTS Management Services P. Ltd

E-52, Second Floor, Sector-03
Noida (UP)- 201 301
Tel: 0120-431 1744
Fax: 0120-426 6039
Website: www.relyonets.com

- **Railway Biodigester**

Dabur

Kaushambi Ghaziabad- 201010
Uttar Pradesh, India
Tel: +91 0120 3982000 (30 lines)
+91 0120 3962100, 39412525, 4182100
Email: AroraR@dabur.com
Mobile: 9810366631

- **Alocal Cream**

Darshan Enterprises

38-39, DSIDC Complex, Scheme-III
Okhla Industrial Area, Phase-III
New Delhi- 110 020
Tel: 011-2638 3123, 2638 9212
Fax: 011 2638 4327

- **Railway Biodigester**

Dass Hitachi Ltd

8/9th Milestone, G.T. Road, Sahibabad P.O.
Mohan Nagar, Ghaziabad- 201 007
Tel: 0120-263 4661, 263 8400, 263 8500
Fax: 011-2301 0128, 263 4660
E-Mail: dhl@dasshitachi.com

- **Railway Biodigester**

Daulat Ram Industries

10-E, Industrial Area, Govindpura
Bhopal- 462 023
Tel: 0755-258 6927
Fax: 0755-278 3452
E-mail: Cotach@danlatram.in

- **Railway Biodigester**

Dilip Enterprise

Missa, Nagaon
Pin-782138
Mobile: 9435165155(M)
Phone: 03672-242 815 (P)

- **Biotank**

E-Pack Polymers

2584 Rohatgi Mansion, 2nd Floor
Hamilton Road, Delhi, 110 006
Ph: 011 23916882
Fax: 011 23953687

- **Stationary Biodigester**

Eram Scientific Solutions Pvt. Ltd

Eram Scientific Solutions Pvt.Ltd
TC 9/1615, SRMH Road
Sasthamangalam Trivandrum - 695010
Email: shanti2joseph@gmail.com
Mobile: 9891300404

- **Biodigester**

Escorts Limited

11, Scindia House, Connaught Circus
New Delhi -110 001
Tel: 229 3235, 419 3235, 228 4623
Fax: 0129-2232 148, 228 3069
Mob: 09818845516, 09650544611

- **HA Biodigester**

Faiveley Transport India Limited

P.B. No. 39, Harita, Horita
Hosur- 635 109 (T.N.)
Tel: 4344-276761 - 65
Fax: 4344-276035, 276786
E-mail: Su.inefaiveleytransport.com

- **Railway Biodigester**

Flexo Foam Pvt. Ltd

R-838, New Rajendra Nagar
New Delhi-110 005
Fax: 011-25738886
Fax: 0124-2469080

- **Biodigester**

Ganesha Impex

309 Durga Chamber, 1333 D.B.
Gupta Road Karol Bagh New
Delhi 110005

Ph: 0124-481 1900, 439 3900

Fax: 0124-481 1999

Email: gylkamal@rediffmail.com

- **Woolcare**
- **Long Lasting Insectional Mosquito Net(LLIN)**

Go Green Solution Pvt., Ltd

1, Samarth Nagar (w), Ajni Sq., Wardha Road
Nagpur- 15

Tel: 0712- 225 0021

Fax: 0712- 225 2597

E-Mail: info@gogreensol.com

Web site: www.gogreensol.com

- **Stationary Biodigetser**

Goa Paints & Allied Products Pvt Ltd

Dempo Trade Centre, 1st Floor, Patto Plaza
Panaji, Goa- 403 001

Phone: 0832 243 7812/13

Fax: 0832 243 7814

Email : goapaints@eth.net

- **High performance exterior paint**
- **Production of solvent- free anticorrosive paint**
- **Heavy duty non-skid paint**
- **Intumescent Fire retardant paint**
- **High Strength Epoxy putty**

Godrej & Boyce MFG Co. Ltd

Precision Engineering Systm Division
Plant 09, Marketing Pirojshanagar
Vikroli, Mumbai- 400 079

Phone: 022-6796 2951/53/60

Fax: 022 - 0796 3020

E-mail: jni@godrej.com

Website: www.godrej.com

- **CO₂ Absorption Plant**

Gurshant Electricals (P) Ltd

Plot No.64, Sector-27A
Mathura Road
Faridabad-121 003

- **Fabrication of Dental Implants**

HES Water Engineers(India) Pvt. Ltd

K27, Five Star Industrial Zone, MIDC, butibori
Nagpur- 441122
Phone: 07104-265 370 (P)
Fax: 07104-265 372 (F)
Email: hesweindia@yahoo.co.in
Website: www.hesweindia.com

- **Iron Remvoal Unit**

High Energy Batteries (India) Ltd

Pakkudi Road, Mathur, Near Trichirappalli
Dist : Pudukoptai, Tamil Nadu- 622515
Phone: 91-431-266 0314, 266 0323, 266 0324
Fax: 91-4339-250516
Email: info@highenergyld.com

- **Bimetallic Platinum Cobalt Catalyst for Fuel Cell**
- **Fuel cell and its component**

Hill Tribes Mushroom and Poultry Pvt. Ltd

S.P. Colony, Hapoli, Ziro-791120
(Arunachal Pradesh)
Phone: 03788-225579 (P), 03788-225 353(P)
Mobile: 9436042003(M)
htmppl@gmail.com

- **Mushroom Pickle Technology**

I-Chem (India)

Delhi
Email: ichemindia@hotmail.com
Mobile: 8285455653

- **Roachtox & Roachline**

Indian Medicinal Pharmaceutical Corporation (IMPCL)

Mohan- Dist. Almora (Via- Ramnagar-244715)
Uttrakhand

- **Herbal Antioxidant Supplement**

Indian Rubber Manufacturers Research Association (IRMRA)

Plot No.254/1B, Road No.16V, Wagle Industrial Estate, Thane (W) - 400 604

Phone: 022- 2581, 1348, 2580 3753, 2583 4650

Telefax: 022- 2582 3910

Email: info@irmra.org

Website: www.irma.org.

- **Acoustic rubber tiles**
- **Adhesive NMR 51 & NMR 88C**
- **Sound Absorbing Rubber & Vibration. Isolation. Tile**

Indraprastha Petrochemicals (P) Ltd

Plot No.269, Swaran Park, Udyog Nagar
Mundka, Delhi- 41

- **Alco-Gel**

Industrial Services

93, Dakshindari Road, Kolkata-700048

Phone: 033-2521 4561(P)

Fax: 033-2521 4294(F)

Email: inserv@vsnl.net

www.industrialservices.co.in

- **Biotank**

Inus

215, MB Road, Birati, Kolkata-700051
Phone: 011-2539 1514(P)
Fax: 011-2844 1333(F)
Email: inuswater@gmail.com

- **Biotank**

Jyothy Laboratories Ltd

Ujala House, RK Mandir Road
Kondivita, Andheri (E), Mumbai
Ph: 022-6689 2800
Fax: 022-6689 2805
Email: contact@jyothy.com, ullas@jyothy.com

- **DEPA Technical, DEPA Cream and DEPA Spray**
- **Woolcare**

Kemrock Industries & Exports Ltd

Survey No. 120/2, At Village Asoj, Vadodara
Halbol Express Way, Ta.Waghodia,
Vadodara- 391 510.
Tel: 02668, 281088
Fax: 02668, 281159, 281111

- **Biodigester**

Khandelwal Enterprises

Mr Deepak Khandelwal, Proprietor
18, Dhamini Market, Chaura Rasta
Jaipur, Rajasthan-302 113

- **Biodigester**

Krishna Industries

Shop No.-9-25/A, Chandawadi, 138, CP Tank
Road Mumbai- 04

- **Food Container Plastic 5.5 litres for Extreme Cold Condition**

Leh Nutrition Project

Housing Colony
Leh Ladakh, J&K

- **Seabuckthorn Herbal Beverage**

Maan Enviro Technologies

Plot No.38-39 Mangalmurti Naulakha
Square, Nemawar Road, Indore
Fax: 0731-240 5888

- **Stationary Biodigester**

Macrotech India

P21, Phase III, Kasba industrial Estate
Kolkata-700 107
Phone- 033 2442 8356, 2443 0370
Fax: 033 2442 1556

- **Intumescent Fire Retardant Paints**

Mars Equipments Limited

28-A, Vidhan Sabha marg
Burlington Xing
lucknow 226001(U.P), India

- **Biodigester**

Mechemco Industries

Office: 27 Kewal Industries Estate, Senapati
Bapat Marg, Lower Parel, Mumbai 400 013
A-34, MIDC (II) Dombivli (East)- 421 204
Phone : 022-2495 1799, 2492 2039
Fax: 022-2494 5907
E-Mail: mechemco@bom3.net.in
<http://www.mechemco.com>

- **Styreneless unsaturated Polyester Resin**

Mineral Oil Corporation

D-13, Panki Industrial Area Site-1
Kanpur- 208 022

- **Alco-Gel**

Mohan Rail Components (P) Ltd

Opp. Rail Coach Factory,
Hussainpur, Kapurthala- 144 602
Tel: 01822 27400
Mob: 09876740403
Fax No: 01822 227311

- **Biodigester**

Morsun Coating Systems

(Prop.: Sunil Paints & Vanishes Co.Pvt.Ltd)
322, TV Industrial Estate, S.K.Ahire Marg
Worli, Mumbai- 400 030
Phone: 022 2493 4855/78
Fax: 022 6660 2846
E-mail: info@morsun.net
Website: www.morsun.net

- **Solvent free anticorrosive paint, Intumescent Fire retardant paint**
- **High Strength Epoxy putty**
- **Production of heavy duty non skid paint**
- **High performance exterior paint**

Murugan Enterprises

H 30/32, Ashtalakshmi Garden
Basant Nagar Chennai- 600 090
Phone: 044 - 2491 5986, 2491 7637, 2490 3456
Fax: 044- 2490 0345
E-mail: mayurme@vsnl.com
Factory: Village No.7
Karanai Puduchery Village, Chengalpet Taluk
Kanchipuram District- 603 202
Phone: 044-2746 8723, 2746 8754

- **Polymeric Rubbing Strakes and Poly List Dock Blocks**
- **Rubber Tiles 20mm**

National Associates

67, Gauhati University Campus
Sundarbari, Jalukbari
Guwahati-781014
Phone: 0361-2570 178(P)

- **Biotank**

Net Plast Pvt. Ltd

Plot No.13, NET House
Uptron Estate, Panki
Kanpur- 208 022

- **Food Container Plastic 5.5 litres for Extreme Cold Condition**

Omax Autos Limited

Plot No.-26, (4 Bays), Institutional Area
Sector-32, F
Gurgaon-122 001 (HR)
Ph: 0124-403250505
Fax: 0124-258 0016/ 403 2506

- **Biodigester**

P.D. Scientific Industries Pvt Ltd

C-46, Road No.12, Site V, Udyog Kunj
Panki, Kanpur-22
Phone: 0512-2547 142(P)
Fax: 0512-2546 803(F)
pdsikanpur@rediffmail.com
pdsikanpur@gmail.com

- **Iron Removal Unit**
- **Alco-Gel**

Percos India Pvt. Ltd

Plot No. 5, 2nd Floor, Neelkanth Chamber – 1
L.S.C., Saini Enclave, Vikas Marg Extn
Delhi-110092, India
Email: drupadhyaya@percosindia.com

- **High Altitude Herbal UV Screen Product**

Phoenix Energy Pvt. Ltd

44-28-12/23, 'AVS Paradise', 80 Feet Road
Akkayapalam, Visakhapatnam -530016
Tel: 0891-274 7225, 254 1075
Fax: 0891-254 1245
Email: phoenixvsp@gmail.com

- **Integrated Fuel Cell Powder Plant up to 2.5 KVA, Planar Methanol Reformer and Catalytic Burner System**

Pioneer Polymers Pvt. Ltd

Mr Amit Bhalla
Email: bhallason@yahoo.in
Mobile: 9810155625
Delhi

- **Herbal Mosquito Repellant Vaporizer**

Plastic Surge Industries Pvt. Ltd.

Siddharth Bhawan, S. V. Patel Marg, Post Box
No. 095, Morshi Road. Amravati- 444 601(MS)
Tel: 0721-267 4130, 267 4267
Fax: 0721-267 0403
Email: sales@psidispo.com
admin@psidispo.com
Website: www.psidispo.com

- **Water Poison Detection Kit (WPK)**

Puja Engineering

231, Grohitam Building, Plot no. 14-B Sector
19, Vashi
New Mumbai- 400705
Phone: 022 2766 6033/ 2766 4080
Facsimile: 022 2765 6636
Cellphone: 9820075120
Email: instrument@vsnl.net

- **Flameless Room Heater**

Pukhrayan Industries

2A/393, Azad Nagar, Kanpur

- **Food Container Plastic 5.5 litres
for Extreme Cold Condition**

Pushpa Enterprises

A-5/24 Pashcim Vihar
New Delhi- 110 063
Mobile: 09811012792, 9873712792
Phone: 011-2528 6550

- **Stationary Biodigester**

QUALPRO Diagnostics (Tulip Group)

88/89, Phase II C, Verna
Industrial Estate, Verna
Goa - 403 722, India
Email: orchid@tulipgroup.com
Mobile: 9890306689

- **Chikungunya Igm Elisa Detection
Kit**
- **JE Elisa Detection Kit for
detection of Japanese
Encephalitis Infection**
- **Chikungunya Antigen Elisa
Detection Kit**

Raas Life Sciences Pvt Ltd

Plot No. 13, Raghavendra Nagar Nacharam
Hyderabad 500 076 AP. CP: Dr.M.Shesheer
Kumar, MD
Phone : 040 2715 0579
E-mail: info@raslifesciences.com

- **Swine Flu (H1N1) Detection Kit**

Rail Coach Engrs

Outside Octroi Post, Near Village Barindpur
PO Sheikhpur Distt. Kapurthala
Tel: 01822 23168, 325113
Fax: 01822 223168

- **Railway Biodigester**

Rail Tech

5625, Qutab Road
New Delhi - 110 055

- **Railway Biodigester**
- **Stationary Biodigester**

Real India Lifetech Pvt Ltd

Vasantha Chambers, Pent House, 5-10-173
Fateh Maidan Road, Basheerbagh
Hyderabad- 500 004
Email: shesheer@gmail.com
Mobile: 9704567315

- **Biodigester**

RVC

14 Corps, MoD

- **Zanskar Pony**

S V K Green Tech Pvt. Ltd

B-121, Green Avenue
Sector 71, Noida 210303 (UP)
Mobile: 9811041529
Tel: 0120 248 4101
Fax: 0120 248 4107
Email: prashant@svkgreentech.com
Website: www.svkgreentech.com

- **Biodigester**

S.B. Equipments

309 Durga Chambers, 1333 D.B. Gupta Road
Karol Bagh
New Delhi- 110 005.

Tel: 011-2875 4365 / 2875 8905

Fax: 011-2248 5572

Email: sbequipment@rediffmail.com

- Depa Spray
- HA Biodigester
- Flameless Methanol Bukhari
- Arsenic Removal Filter
- Aeromos
- Aeroheal
- Termiclear
- PainOut

S.S.Rubbers Pvt. Ltd

5-9-287, R.G. Nagar, I.E.Kukatpally, Balanagar
Hyderabad- 500037

Ph: 040 -2372 0394/5/6

Fax: 040-2372 0183

E-mail: mktg@ssrubbers.com

Wbsite: www.ssrubber.com

- 20 mm Rubber Tiles

Samudra Shipyard (P) Ltd

PB No. 10 Chemical Industrial Estate
Aroor- 688 534.(Kerala)

Phone: 478 2874027, 2873 927

Fax: 478 2872 942

- Stationary Biodigester

Saranya Electronics Ltd

PlotNo.A-7/1 2nd Floor, Electronics Complex
Kushalguda, Hyderabad – 500 062.

Tel: 040-2713 1402, 2713 1409

Fax: 040-2713 1408

E-Mail: saranyaelectronics@ sancharnet.in

Website: www.saranyaelectronics.com

- Railway Biodigester

Save The Environment

18/1, Kailash Ghosh Road, Kolkota-700 008
P.R.Office 4 Jagat Roy Choudhury Road, Sakher
Bazar, Kolkata- 700008, (Near Pratima Nursery)
Field Office:YMCA, Bamondanga, Basirhat Rd,
Maslandapur 24 Parganas (N)
E-mail: save1990env@yahoo.co.in
Phone: 03364570693
Fax: 91 033 2838 0120

- **Arsenic Removal Kit**

Setco Chemical (I) Pvt. Ltd

S.No. 72, Nos 64 to 73
Dewan & Shah Industrial Estate
Waliv Phata, Vasai (East).
Dist Thane- 401 208
Phone: 95250 329 4750/51
Fax: 95250 248 0806
Email: setcochemicals@gmail.com
Website: www.setcochemicals.com

- **Benzylidene bisortho-chloroaniline (BOCA), polyurethane sealant and modification of Epoxy resin**
- **Poly oxy Propylene Triol**
- **Epoxy Putty**

Shakthi Rubbers

No.62, 8th Main Road
Jayalakshmiapuram, Mysore- 570 012
Tele: 0821 251 2458
Fax: 0821 251 7096

- **Acoustic rubber tiles**

Shalimar Paints Limited

'C' Wing, 5th floor, Oberoi Garden Estate
Chandivali Farm Road, Chandivali , Andheri (E)
Mumbai 400 072

Regd Office : Goaberia, P.O.Danesh Shaik
Lane, Howrah-711109
Phone: 022-6129-8900
Fax: (022) 6129-8910
Email: info@shalimarpaints.com

- **Heavy Duty Non-Skid & High Performance Exterior Paint**

Shiva Engineering Works

2, India Exchange Place
Kolkata- 700 001
Phone: 2230-1315, 1330-1319
Fax: 91-332230-7383
E-mail: shew@theshivagroup.com
Website: www.theshivagroup.com

- **Arsenic Removal Kit**

Shree Cosmetics

10th Floor, DLF Square, DLF City 2
Gurgaon (Haryana) 122002
Email: nitish.mandhar@mayargroup.com
Mobile: 9582777160

- **Alocal Cream**

Shrinathji Chemicals

97-A Sector, Industrial Estate, Mandideep 462
046, District Raisen (M.P.)
Phone: 07480-231230 (P)
Fax: 0755-4276970(F)
Shrinathji_chemicals2004@ yahoo.com

- **Herbal Mosquito Repellent Vaporizer**
- **Water Testing Field Kit**
- **Herbal Mosquito Repellent Vaporizer**
- **Bio-larvacide Bacillus Sphaericus DRLT-138**
- **Herbal Floor Cleaner**
- **Room Freshener cum Mosquito Repellent**

Shree Ram Raja Wood Packers

406, Silver, Estate, University Road
Gwalior- 474 011

- **Stationary Biodigester**

Sidwal Refrigeration Ind. Ltd

108-A, Madangir, New Delhi - 62
Ph: 011-4077 5500, 2605 7222
Fax: 011-2605 6433, 4164 9706

- **Railway Biodigester**

Singh's Steelwork

Post Box.30, Mission Chariali
Tezpur-784 001
Phone: 03712-255 622(P)
Fax: 03712-255 702(F)
Email: singhsteels@rediffmail.com

- **Biotank**

SMK Petrochemicals (P) Ltd

1275, HSIDC IE Rai
District Sonapat-131029
Haryana

- **Alco-Gel**

Span Filtermist India Pvt. Ltd

Plot No.04, Ramtekadi, Industrial Town Planning,
Hadapsar, Pune - 411013
Tel: 020 2681 0773, 2681 1226, 3252 2437
2687 2024
Fax : 020 2681 0773
Email: spanfm@vsnl.com
spanfiltermist.com

- **Air Purification System comprising of Negative ion generator**

Srikar Organics India Ltd

Plot No- 24, Near Chandamama Hospital
Raghavendra Nagar, Nacharam
Hyderabad - 500039

- **Biodigester**

Sujay Envirotech India Private limited

C-480, Sumati Apartment
Near Shaniwarwada Peth, Pune-30
(Maharashtra), India

- **Biodigester**

Super Flow Engineering Corporation

Parking no. 1, Transport nagar, Gwalior (MP)

- **Biodigester**

Thakar Equipment Company

66, Okhla Industrial Estate, (Phase-II)
New Delhi- 20
Tel: 011-2684 7280
Fax: 011-2682 7232

- **Biodigester**

U.K.Paints (India) Pvt. Limited

PROP. OF U.K.Paint Industries
Regd Office: 19, DDA Commercial Complex
Kailash Colony Extn.
New Delhi- 110 048 (India)
Phone: H.O.29240394-6, 29231992, 41635428,
29245026
Fax: 011-29247864
E-mail: renuka@britishpaints.in

- **Solvent free anticorrosive paint,
Heavy duty non-skid paint,
Intumescent Fire retardant paint**

Ultra Dimension

Mr LG Trinadha Rao
Chairman and Managing Director
#14-1-42, Ground Floor, Pragati's Regent
Nouroji Road, Maharanipecta, Vishakhapatnam-
530 002 (AP)

- **Biodigester**

Unicare Emergency Equipment P. Ltd

Leslico House, 2nd Floor, Prof: V.S. Agashe
Road, Off 87-C, Bhawani Shankar Road
Dadar(W)
Mumbai- 400 028
Tel: 022-2422 1878 / 2422 1880
Fax: 022-2430 6044

- **Personnel Decontamination Kit(PDK), Three Colour Detector(TCD) Paper**

VCM Polyurethanes Pvt. Ltd

W-134/W-135, MIDC, Phase II
Dombivli Industrial Area, Dombivli (E)
Distt: Thane- 421 204
Phone: 0251 2871 6660 / 2874617
Fax: 0251 287 0558
Email: mail@vcm.co.in
Website: www.vcm.co.in

- **Polyurethane Sealant**
- **Polyoxypropylene Triol and Benzylidene Bis Ortho Chloroaniline**

Vantage Integrated Security Solutions Pvt Ltd

B-11, Sector 7, Noida
U.P.-201301, India
Email: pranav@vantagesecurity.com
Mobile: 9999499466

- **Explosive Detection Kit**

Vibhu Composite Works

Vivek Gupta, Vibhu Composite Works
Yamuna Nagar -135001, Haryana
Email: gu.vivek@gmail.com
Mobile: 9812021442

- **Biodigester**

Vijay Aluminium Works

123/433, Fazal Ganj Factory Area
Kanpur- 208 012

- **Food Container Plastic 5.5 litres for Extreme Cold Condition**

Viraj Clean Sea Enterprises Pvt Ltd

D-440, 2nd Floor, Vashi Plaza, Sector- 17
Vashi, Navi Mumbai -400 703

Regd Office : Room No.217, 2nd Floor, Munish
Plaza, 20 Ansari Road, Daryaganj
Delhi-110 002

Tel: 022 2765 7811, 4013 5610, 6514 5610

Fax: 022 2765 0963

Email: info@cleanseaent.com

- Bioemulsifier

Viswaat Chemicals Ltd

Plot No. N-1, Addl Ambernath, Anand Nagar
Ambernath (East) - 421 506, Dist-Thane

M/s.Viswaat Chemicals Ltd.

“Viswaat”, 7, Satsang Complex, Upper Govind
Nagar, L.S.Raheja Marg, Malad (E)
Mumbai- 400 097

Tele: 0251- 262 0046/48

Fax: 0251-262 1024

Email: ambviswaat47@rediffmail.com

Fax: 9522- 28745321

- Polyoxy propylene triol & triethylene glycol dimethacrylate

Waterlife India Private Limited

Plot No.9, SAI NIDHI
2nd Floor, Krishnapuri Colony
West Marredpally Secunderabad- 500 026.

Phone: 040 27709889 040 67292193

Email: smenon@waterlifeindia.com

Mobile: 09866017450

- Mobile RO Water Purification System

Yorco Sales Pvt. Ltd

11, Netaji Subhash Marg
Daryaganj New Delhi - 110002

Mobile: 9811017358

- Multi-Purpose Foldable Army Field Cot (MPAFC)

TOT Partners for Food Technologies

ADF FOODS LTD

Gids Estate
Nadiad - 387 001
Dt. Kaira, Gujarat State
Tel: 0268-51381/51382
Fax: 0268-65068

- **Retort Processing Of Foods**

ALOE NATURALS

29(1), Light Industrial Area
Jodhpur - 342 003
Rajasthan

- **Retort Pouch Processed Foods**
- **Preserved And Flavoured Chapatias**
- **Stuffed Parothas**

ANNAMALAIYAAR FOOD TECH CO.

126, 2nd Cross, 8th Main Road
Jakkasandra Block
Koramangala
Bangalore - 560 034
Tel: 0091-080-553 2380
Fax: 0091-080-552 0222

- **Retort Pouch Process (MRE)**

ANU COCO FOOD PRODUCTS

D.47, Phase-1, Ida, Jeedimetla,
Hyderabad - 500 055.

- **Tender Coconut Water**

AZAAD FOODS INDUSTRIES

Thondoli, Nattakam P.o.
Kottayam - 686 013
Tel: 91481-236 0625
Fax: 91481 - 236 1874
Email: mail@azaadfoods.com

- **Retort Pouch Processed Foods**

AP FOODS

Nacharam, Ida
Hyderabad-500 076
Tel: 2715 0843, 2715 2207
Fax: 040-2717 1596
Email: apfoods@hotmail.com

- **CHIKKI**

CAVIN CARE PVT LTD

17, 13th Main Road
Anna Nagar West
Chennai - 600 040
Tel: 044-2616 2554, 2616 3477
Fax: 91-44-26162554
Reg. Off.
237, Peters Road
Chennai - 600 086
Tel: 044-2835 2233
Fax: 91-44-2835 2776

- **RETORT POUCH PROCESS (MRE)**

CHORDIA FOOD PRODUCTS PVT LTD

48/A, Parvati Industrial Estate, Pune-Satara
Road, Pune 411009, Maharashtra, India
Tel: +91 20 24220022
Fax: +91 20 24215190
Mobile: +91 98227 20000
Email: admin@chordia.com
Website: www.chordia.com

- **Dehydrated Pulav Mix**
- **Alu Cholay**
- **Instant Halwa Mix**
- **Vegetable Pulav**
- **Curried Dal**

COCOAS PRODUCTS PVT LTD

1/169, Gobi Main Road
Arasur Post, Erode- 638 454

- **Tender Coconut Water**

DESAI BROTHERS LIMITED (FOODS DIVN)

'Desai House', 177/2, Dhole Patil Road
Pune - 411 001
Tel: 91 20 2600 4100
Fax: 91 20 2600 4110
Email: admin@dblfood.com

- Retort Pouch Processed Foods

ENSIGNS HEALTH CARE PVT LTD

32, Prachi Residency, Baner
Pune- 411 045, Maharashtra
Tel: 020-4078 9505
Email: ensignshealthcare@gmail.com

- Egg Biscuits

FLOWER VALLEY FOODS FARMS PVT LTD

Lokeshwari
Bhagwanpur P.o.
Roorkee, Dist. Haridwar
Uttaranchal

- Retort Pouch Processed Foods

**GITS FOOD PRODUCTS PVT LTD
GITS HOUSE**

Hadapsar Industrial Estate
Pune- 411 013
Tel: 020-687 0008/9
Fax: 91-020-687 5993

- Retort Processing Of Foods

GITWAKO FARMS (I) PVT LTD

No.42, Birbal Road
Jungpura Extn
New Delhi-110 014
Tel: (11)431 6207 / 431 3198
Fax: (11) 431 9587

- **Retort Processing Of Foods**

GLOBAL ASSOCIATES

3rd Floor, Oberoi Towers
Balamatta
Mangalore- 575 001

- **Tender Coconut Water**

GOPI DEHYDRATES PVT LTD

104, Gupta Tower
Commercial Complex
Namiwala Bagh, Azadpur
Delhi- 110 033
Tel: 011-7427439
Fax: 011-7437142
Email: gopi@ndf.vsnl.net.in
Website: www.gopidehydrates.com

- **Ready To Eat Chapati Retort Processing of Foods**

HALLIMANE CATERERS

No.3/144, 7th Cross, C.a. Road
Mallechwaram
Bangalore- 560 003
Tel: 41440692/65611222/9611211222
Email: Info@hallimane.com

- **Short Term Preserved Chapatis**

HEALTH & TASTE

Arul Illam, 61/38-d
Kailash Nagar
Brindavan Road, Fairlands
Salem- 636 016
Tel: 0427-304 3010, 309 0853
Mob: 9843074199
Email: turmericitreat@rediffmail.com

- **Shellac Coating For Fruits & Vegetables**

HELIOS FOOD ADDITIVES PVT. LTD.,

421, Swastik Chambers
Umarshi Pabba Chowk
Chembur
Bombay- 400 071

- **Intermediate Moisture Foods**
- **Retort Processing Of Foods**

HINDUSTAN LEVER LTD

165/166, Backbav
Reclamation
Mumbai- 400 020

- **Preserved Chapati**
- **Instant Rice**
- **Instnat Dal**

INNOVISION FOODS PVT LTD

76, Facile Towers
Victoria Road
Bangalore- 560 047
Tel: 080-509 3041 / 42

- **Retort Pouch Process (mre)**

ITC LIMITED

Foods Business
Pulikeshinagar P.o.
Bangalore- 560 005
Tel: 91-80-549 3670/72 & 549 5071/72
Fax: 91-80-549 3677/78/79

- **Instant Curried Dals**
- **Instant Pulav Mix**
- **Instant Whole Legumes**
- **Instant Green Leafy Vegetables**
- **Instant Coconut Chutney**
- **Htst Dehydrated Technologies**
- **Additive Treatment For Vegetable**
- **Keep Fresh Salt**
- **Short Term Preserved Chapatias**
- **Puff And Serve Chapatias**

JAIN AGRO FOOD PRODUCTS PVT LTD

Mr. Ajay Kumar Jain
Director
No.16b
Somanahalli Indl. Area
Maddur Taluk
Mandya- 571 429.

- **Tender Coconut Water**

KALPATHARU

U76, Hootagalli Industrial Area
Mysore- 570 018
Tel: 91-821-240 2362 / 428 0354
Website: www.kalpatharunaturals.com

- **Beetle Leaf Juice**

KOHINOOR FOODS LTD

201, Vipps Centre
Masjid Moth, Greater Kailash- li
New Delhi- 110 048
Tel: 91-11-4163 5737
Fax: 91-11-4163 8586/87

- **Shelf Stable (no Preservative)
Chapatis**

LAIJA FOODS PVT LTD

Shanthi Bhavan
27, Picket Cross Road
3rd Floor, Office 32
Mumbai- 400 002

- **Instant Halwa Mix**
- **Retort Pouching Of Foods**

LAIJAWALA FOOD INDUSTRIES

66, Perin nariman street
5th floor, dwarkadas lane fort
Mumbai- 400 001
Ph: 022-261 7293
Fax: 022-261 7293
Email: lfoodindustries@rediffmail.com

- **Insta Nutro Cereal Mix**
- **Retort Processing Of Foods**

MARINE SAFETY PRODUCTS

71-H, Dalamal Park
Cuffe Parade
Bombay- 400 005

- **Soft Bar**

MTR FOODS LIMITED

2971, I Floor
Esturi Towers, Kr Road
Bsk li Stage
Bangalore- 560 070

- **Retort Processed Foods**

MUSE

Create Intitatives For Social Action
C/o. Nonosonam Angdui, Wishpering Willows
Vpo Kaza, Lahaul & Spiti - 172 114
Himachal Pradesh
Tel: 01906-222216
Mobile: 09899492417
Email: muse_india@yahoo.co.in

- **Seabuckthorn Squash**

NOVA INSTANT FOODS PVT LTD

No.503, Mig
Sharadadevi Nagar
Mysore- 570 023
Tel: 332773, 342004, 340601
Email: novafoods@hotmail.com
Factory: 30f, Industrial Suburb
Mysore- 570 008

- **Preserved Chapati**

ORON HEALTH FOODS PVT LTD

G.S. Road, Shillong- 793 001
Tel: 0091 9436105737

- **Instant Khichidi Mix**

PAN FOODS LIMITED

GT Road
Panipat-132 104
Tel: 0180-266 0060, 61 To 63
Fax: 0180-2665412

- **Preserved & Flavoured Chapaties**

PDM FOODS

Mr. Paul Kurian
Murimattathi House
Kolenchery Po
Ernakulam Dist., Kerala State
Tel: 0484 276 0358

- **Retort Pouch Processed Foods**

SAKTI COCO PRODUCTS

Unit No.9/2, Industrial Estate
Udumalpet Road
Pollachi- 642 003

- **Tender Coconut Water**

SARA SPICES

(mfrs Of Powders & Spice Mix)
Kizhakkambalam – 683 562
Aluva, Kerala
Tel: 0484 680700 (5 Lines)
Fax: 0484 684866 / 343576
Email: annain@md2.vsnl.net.in
Website: www.annian.com

- **Retort processing of Foods**

SHAKTI BHOG SNACKS LTD

B-117, Sector-64, Noida - 201301
Uttar Pradesh, India
Mobile: +(91)-9818797095
Tel: +91-120 -435 4242

- **Retort Pouch Processed Foods**
- **Shelf Stable (no Preservative)chapatis**

SHREEMIRRA FOOD INDUSTRIES PVT LTD

N-14, Pemino Apts, 1b
Altamdint Road
Mumbai- 400 026
Tel: 23801908
Fax: 23807055
Email: shreemirra@hotmail.com

- **Retort Processing of Foods**

SPICES INDIA

C-28, Industrial Estate
Yadavagiri
Mysore- 570 020

- PD Pulav
- PD Dal
- Chapati
- Halwa Mix
- PD Rice
- Chikki
- Dehydrated Veg Curry
- Insta Nutro Cereal Mix
- Burfi

TARLA DALAL FOODS

314, Jolly Bhavan No.1
No.10, New Marine Lines
Bombay- 400 020

- PD Pulav
- Instant Dal

TASTY BITE EATABLES LIMITED

204, mayfair Towers
Wakdewadi
Shivajinagar
pune- 411 005

- Retort Processing of Foods

**USHODAYA ENTERPRISES LTD
(PRIYA FOODS DIVISION)**

Poranki- 521 137
Vijayawada, Andhrapradesh
Tel: 0866-582346-48
Fax: 91-0866-582802
Email: vjwpriyafac@sancharnet.in

- Retort Processing of Foods

**VENKATESWARA HATCHERIES LTD
(EGG PROCESSING DIVN)**

“venkateswara House”

3-5-808, Hyderguda
Hyderabad- 500 029

Tel: 321 2795

Fax: 040- 323 3915 / 329 8922

E-mail: balaji-gh@yahoo.com, vhihyd@eth.net

- Scrambled Egg Mix
- Egg Omlette Mix

VIMAL AGRO PRODUCTS PVT LTD

G.I.D.C. Ten Road
Bardoli- 394 601
Dist. Surat, (gujarat)

Tel: 20759, 23859, 23959

Fax: 2622 22759, 23759

- Retort Processing of Foods

**WYN BRANDS RELIABLE QUALITY
SHIPPERS**

No3, Villa Delmar
Sarjapur Road
Bangalore- 560 034

Tel: 91-80-572 1437

Fax: 91-80-572 1437

- Precut Vegetables

**YAMUNA ROLLER FLOUR MILLS
PVT LTD**

Yamuna Roller Flour Mills (p) Ltd.
22-a, Development Plot
Po: Peringandoor
Thrissur, Kerala.

- Instant Upma Mix Nutri Bar

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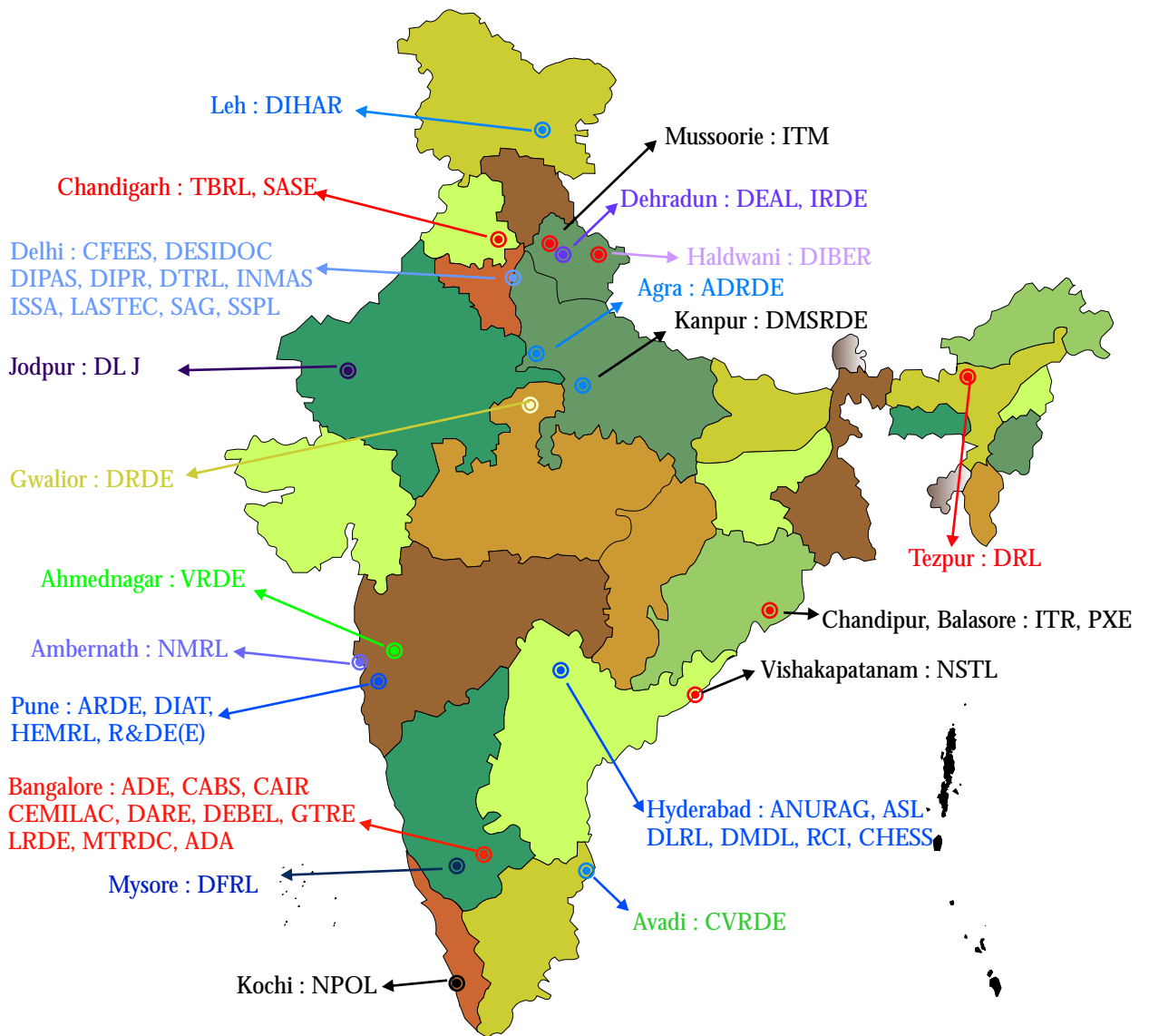
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DRDO is working in various areas of military technology which include aeronautics, armaments, combat vehicles, electronics, instrumentation engineering systems, missiles, materials, naval systems, advanced computing, simulation and life sciences. DRDO while striving to meet the Cutting edge weapons technology requirements provides ample spinoff benefits to the society at large thereby contributing to the nation building.



DRDO BHAWAN

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