

JSC "IF IRSET-CENTER"

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Management: G.V. Itkinson - General director

M.M.Grudnikov- Deputy general director for economy and finance

Employees: 45 persons.

Previous financing: \$1 425 000

Current financing: \$150 000 bank credits, \$80 000 Funds of assistance to development of the small forms of the enterprises in scientific and technical sphere

Requested investment: \$8 300 000

Use of the requested investment: : Purchase of the process equipment for growth of semiconductor heterostructures, manufacturing of "chips", packaging of "chips", surface mounting technology. Reconstruction of the industrial areas for start of the mentioned technological processes, optimization and reconstruction of engineering maintenance.

Company Description:

The enterprise is organized in February, 1993. The presence of the highly skilled specialists and cooperation with leading scientific organizations and industrial enterprises of St. Petersburg has allowed to realize the innovation projects in the field of optoelectronics on development and organization of manufacture of powerful semiconductor light sources in infrared and visible regions, development and organization of manufacture of devices of the fire-security signal system on the basis of own optoelectronic components.

The strategic goal of firm is the gain 20-25% shares of the domestic market of optoelectronics products, devices and systems on their basis by means of development of serial production, reduction of delivery terms, assurance of high quality, development and manufacture of new products.

Field and Directions of Activity:

JSC "IF IRSET - Center " works in the field of optoelectronics. The firm specializes in development and manufacture of powerful semiconductor light sources and LED-based devices and systems.

Products/Services/Technologies:

Produced products:

- Products of fire automatics, including threshold photoelectronic smoke detectors and addressable analog systems;
 - Lighting devices on the basis of powerful semiconductor light sources, including LED blocks for road and railway traffic lights; LED bars for automobile signal lights
 - High-effective powerful emitting diodes of visible and infra-red regions, including powerful bars and matrixes of IR - diodes
 - Key technologies:
 - Technology of secondary optics manufacturing for optimization of optoelectronic components characteristics;
 - Assembly of LED chips and photodiodes in various packages;
 - Surface mounting of components on printed-circuit-boards
 - Mounting of optoelectronic components on the flexible carrier
 - Assembly of optical systems on the basis of optoelectronic components
- The patent for the invention " Lighting device with asymmetrical distribution of luminous flux in relation to optical axis " is received which was submitted together with JSC ""LOMO" (State Registration Number 98104645 from 26.03.98).

The patents for an industrial sample " Fire smoke detector " No.46375 and on the invention " Smoke detector " No.2141133 are received.

Management Team:

The basic founders:

The legal organization JSC " STRIM Corp." (St. Petersburg) - 65 %; private individuals - 35 %.

Management and key personnel:

The general director Itkinson Grigoriy Vladimirovitch (Leningrad Electrotechnical institute, 1973, engineer of electronic engineering). 1973 - 1985 гг. - "Pozitron" association engaged in manufacture of optoelectronic devices and microcircuits. 1985 - 1989 - Chief technologist of "Elektronpribor" association, development and manufacture of silicon semiconductor microcircuits. 1989 - 1993 the chief engineer of the Scientific - technological centre of microelectronics and submicron heterostructures at A.F. Ioffe PHYSICO-TECHNICAL INSTITUTE of RAS. Since 1993 and till the present time the General director of JSC " IF IRSET-CENTER ".

The chief designer of optoelectronic components Vasil'eva Elena Dmitrievna (Leningrad Electrotechnical institute, 1972, engineer of electronic engineering). Began labour activity in A.F. Ioffe PHYSICO-TECHNICAL INSTITUTE of RAS. The candidate of physical and mathematical sciences since 1998. The deputy chief engineer of JSC " IF IRSET-CENTER ". In her competence there are questions of development and organization of manufacture.

The chief designer of devices and systems on the basis of optoelectronic components Rubashkin Yury Arkad'evich (Leningrad Electrotechnical institute, 1974, engineer of electronic engineering). Began the activity in a design bureau of "Elektronpribor", where has worked 16 years, was engaged in development of silicon microcircuits technology. Since 1993 works in JSC " IF IRSET-CENTER " in position of the deputy general director. In Rubashkin's competence there are questions of development of devices for security and fire alarm systems. Supervises over works on product sales promotion and marketing.

The deputy general director on economy and finance Grudnikov Mark Mendeleovich (Leningrad institute of the precision mechanics and optics, 1972, computer facilities). Since 1972 till 1993 he worked in association Elektronpribor, where he was engaged in development of computer facilities and microcircuits. Since 1993 - the deputy general director on economy and finance of JSC " IF IRSET-CENTER ".

Markets/Competition:

Segments of the market /primaries competitors:

- Optoelectronic components (powerful semiconductor light sources) / JSC "Proton" (. Oryol), Hewlett Packard (USA)
- Light signals for road transport management on the basis of powerful semiconductor light sources / firm "Svecha" (. Moscow), SDD Ltd. (. Tomsk), Hewlett Packard (USA)
- Systems of fire safety / Firm " IWS- Signalspetsavtomatika " (Obninsk), ESMI (Finland)
- LED bars for light signals of automobiles / LumiLeds (USA)

Volume of the market of optoelectronic components (powerful semiconductor light sources) in Russia makes up about \$1 800 000, and IRSET-Center occupies 7 % of this volume.

Furthermore, 10 % of produced optoelectronic components are delivered to Germany.

The demand of the market for light signals of road transport management makes up \$20 000 000 per year, IRSET-Center now provides 1 % of this demand.

The demand of the market for LED bars for light signals of automobiles makes up \$15 000 000 per annum, IRSET-Center now provides 1 % of this demand.

Volume of the products market of the fire-security signal system in Russia makes up about \$15 000 000 per year.; IRSET-Center provides 30 % of this volume.

Achievements:

In 1996 serial manufacture of high-effective powerful semiconductor light sources was mastered and on their basis the LED CHMSL for the automobile GAS 3110 was produced. In 1997 serial manufacture of fire smoke detectors was begun. In 1998 the deliveries of optoelectronic components to Germany were started. In 1999 manufacture of LED signals of road transport management was begun. In 2000 serial manufacture of first in Russia addressable-analog system of the fire signal system "Triumph" was mastered.

Outlook:

- Expansion of the nomenclature of produced products for fire safety systems.
- Development and mastering of manufacture of white LEDs.
- Development and serial manufacture of emitting diodes in average IR region 1,5 - 4 m
- Organization of own manufacture of AlGaInP and AlGaInN semiconductor heterostructures and chips on their basis.
- Expansion of the nomenclature of products delivered on the foreign markets.