



LED LIGHTING AND MOTHERBOARD MANUFACTURING, SARAJEVO

Project title	The development of new production lines in the field of LED lighting and motherboard manufacturing
Sector	SMT (Surface Mounted Technology) and LED lighting EMS (Electronic Manufacturing Service) Company
Location	Vogosca, Sarajevo
Location description	The site is situated near the Trans - European Corridor Vc (2.7 km) and 6 km from the centre of Sarajevo city, in the central part of the industrial zone Vogosca. The total land area is 8798 m ² while the useful area of the building is 1520.60 m ² . It is located in the free zone of Vogosca-Sarajevo, not far from Volkswagen factory (300m).
Project background	LIVA energy is a joint venture Company, established as a Turkish (80%)-Bosnian (20%) partnership in 2012. Projected plans, building a factory with SMT line, were successfully accomplished by the end of 2014 in Sarajevo (Vogošća Industry Zone). LIVA energy had extended knowledge in the field of electrical engineering, PCB development, design and custom-made production combined with our R&D and technical support for demanding SMT processes with zero-defects approach. Depending on Customer request, LIVA energy was capable of modifying and upgrading production processes as well as adding the required testing equipment into existing production processes. In the first Quarter 2015, LIVA energy had been certified with ISO 9001, ISO 14001 and OHSAS 18001, while ISO 27001, ISO 16949 and ITAR certificate were already planned.
Project status	Stand by
Project description	The project proposes the development of new production lines in the field of LED lighting and motherboard manufacturing. Since October 2016, the factory is on stand-by. Unfortunately, because of private reasons the majority partner of LIVA Energy (80% from Turkey, 20% of project proposer) has moved production plant (all machinery) from Bosnia and Herzegovina to Turkey.



	<p>Since the future is focused on the electrical and electronic engineering, it is necessary to find strategic partner and possibility to buy a share from majority partner (or whole), provide funds for the procurement of equipment and working capital and to start electronics production again for the needs of companies in EU.</p> <p>New production lines can be put into operation very quickly (6 months).</p> <p>With future labour force 30+ employees (very good human resources), including 10 staff engineers, will be ready to meet all client requirements, delivery terms with competitive prices and customer specifications.</p> <p>Production and assembly capabilities are as follows: SMT (High speed mounting of small to large sized parts); Through whole process; Selective soldering (Lead-free ready); Final assembly line.</p> <p>With this production “LIVA energy” can implement full process and quality control allowing timely reaction and detecting any possible mistakes.</p> <p>SMT line will have following capabilities: Solder Paste Inspection, Pre-reflow oven AOI, After-reflow oven AOI, X-ray Inspection.</p> <p>“LIVA energy” software integration solutions were based on implementation of ERP business package and OWIS Document Management System which were protected by IBM Guardian and CISCO data encryption system.</p> <p>Manufacturing Execution Software (including Laser Marking Machine) will allow us to perform complete traceability of entire production processes.</p> <p>With “LIVA energy” solution partners from Japan, Korea, England, USA, Germany, B&H and Turkey we were focusing to meet the demands of customers in following industries: Medical, Automotive, Aerospace, Military and Defence, Communications, Security, LED Lighting.</p>						
Estimated total investment cost	<p>9 million EUR (land/buildings cost plus equipment and machinery, training, intellectual property)</p> <table> <tr> <td>Selling price with intellectual property:</td> <td>5,000,000.00 EUR</td> </tr> <tr> <td>Machines and equipment (Investment):</td> <td>2,290,000.00 EUR</td> </tr> <tr> <td>Operating assets for two years:</td> <td>1,710,000.00 EUR</td> </tr> </table>	Selling price with intellectual property:	5,000,000.00 EUR	Machines and equipment (Investment):	2,290,000.00 EUR	Operating assets for two years:	1,710,000.00 EUR
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Inputs required from foreign partner	<p>To buy a share from majority partner (or whole) with intellectual property.</p> <p>Providing of all necessary machines a, equipment and tools for production.</p>						
Form of cooperation with foreign partner	<p>Equity participation</p> <p>Joint venture</p>						
Supporting information available	<p>For additional information about this project, please contact FIPA either by e-mail: fipa@fipa.gov.ba or phone number: +387 33 278 080.</p>						