" Excellence Delivered Through DiaSoft™ Manufacturing ERP Solution"

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"DiaSoft™ ERP Implementation at K. Girdharlal"

K. Girdharlal, most commonly known as 'KG', is a vertically-integrated diamond company that was originally formed in Surat in India as a diamond trading company in the mid-1960's. KG employs over 2,000 people worldwide and has a distribution network that covers every diamond consuming market: Antwerp (Europe), Dubai (Middle East), Hong Kong (Far East), Mumbai (India), New York (Americas), and Shanghai (Mainland China).

Business Challenge

Over the past four decades, KG has successfully established a presence throughout the diamond value chain: rough sourcing, cutting and polishing, polished trading, jewelry manufacturing and haute joaillerie.

However, with KG's vision to balance its diamond and jewelry manufacturing expansion with diamond management services for further value optimization of their stones, they realized the need of software solutions with state-of-the-art technology that can facilitate their business expansion strategies. To accomplish their vision of growth and global existence, KG anticipated robust systems that would cater to all aspects of business such as global sales management, inventory control, customer relationships, financial accounting and much more.

Journey of Success

Lemon Technologies Pvt. Ltd. (LTPL), based on its expertise in the gem and jewelry industry, developed high-tech integrated software, with the following unique features, to address the business challenges of KG.

- **Stock Requisition by Laser Sawing (LS) Department** – The laser sawing department at KG has a unique procedure to raise requests for stock requisitions to the main stock control department. With this facility, once a request is raised by the LS department and processed by stock control department, stones will be issued automatically by the system to the LS department based on the priority of the stones. The system will later on prompt messages and requisition IDs to the various departments who have to issue stones to the LS department based on their request.

- **Importing plans from Planning Machines to DiaSoft™** – The high-tech planning machines at KG enlist all the possible plans for each single stone that is to be manufactured. All these plans are then imported to DiaSoft™, where the planners view all the plans and make decisions about the stones based on the demand or the value given by each plan. These plans when imported to DiaSoft™ make it easy for the planners to plan as they have access to all the information like price lists, current demand and all the viable plans for the stone, all at one place.

- **Automatic Labor Calculation** – People at KG are rewarded based on the production done by them. With the introduction of DiaSoft™ at KG, the labor calculation is fully automatic and done by the system. Based on the pre-defined tolerance limits, the employees are rewarded on the production done by them.

- **Program (Demand) Fulfillment System** – As and when a demand is entered in the system, the system in the background checks the ready polish inventory and allocates the same against the entered demand. The system itself keeps checking and re-allocating inventory as and when required based on the priorities of the demand hence eliminating the need for human intervention for demand fulfillment.

- **Safety Cross Report** – A safety cross report is specially designed and developed for KG as per the international standards stated by regulatory bodies. Any incident or injury caused to the workers or diamond damage done by the workers and other incidents while processing rough diamonds are maintained in this report. The entire details of the injury or the incident are maintained in this report. This report can be further used for insurance and other legal matters.

- **Demand & Value driven Manufacturing DSS** – As and when a demand gets placed in the system or if a particular demand is forecasted, the manufacturing process is driven based on these demands. The manufacturing process is planned or altered based on the value or yield that is expected to be generated from the demand. Hence, it acts as a pull system, with the demand and value acting as a decision support system for the manufacturing process.

Success Value Delivered

- Increased accuracy in planning the stones as all relevant information for planning is available at one place.
- Fully automatic labor calculation system.
- Human intervention reduced by 95% in order fulfillment process.
- Special reports designed for insurance, legal and other security purposes.
- Back tracking of each individual polished stone from a certified polished stone to a rough diamond became possible through the system.

About Lemon Technologies

Lemon Technologies is an ISO 9001:2008 certified software development company pioneering in database applications, especially, cutting edge technology solutions for the Gem & Jewelry industry.

Lemon has been formed with the vision to offer innovative and creative software solutions for the beneficiation of our customers worldwide such that our solutions enable them to transform the way in which they do business.