



Case Study

MobilLab™

Worksheet

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Project name or title	GSI MobilLab™

Customer name	Sightholder X
Division	Loose goods division/finished jewelry division
Address	Opera House vicinity/SEEPZ
City, state, ZIP Code	Mumbai India
Industry	Jewelry

Case Study Major Indian Sightholder

Company profile

- Sightholder X, established almost 50 years ago, is a premier manufacturer of jewelry worldwide.

Business situation

The jewelry production process in the Mumbai area consists of the following stages: 1) The diamonds division in the Opera House area assembles goods that fit the required criteria and forwards them to SEEPZ plants for jewelry manufacturing; 2) At SEEPZ jewelry articles are produced, and once finished they are graded by a gemological lab; 3) The lab examines the jewelry and rejects items that are not consistent with gemological criteria established by customers. Because of special import/export restrictions, once goods are moved into SEEPZ they can't be return back to India to be exported abroad. This situation leaves the sightholder with a shortage in the order on the one hand and rejected goods on other hand. This situation increases costs, adds production time, potentially reduces goodwill with customers, and creates other problems.

Solution

Proprietary software from Gemological Science International (GSI) allows qualified gem graders to use portable professional equipment to examine and grade diamonds and colored stones anywhere in the world. They then transmit grading information to the GSI home office via the internet in real time. The home office can evaluate the information and generate required operations, including grading reports and billing information while graders continue their specialized work. The software and portable grading equipment together with highly experienced professional staff and Internet connections, implements GSI's unique MobilLab™ service.

Here how MobilLab™ was used in the particular situation studied:

1. GSI staff examined the loose diamonds in the Opera House offices of the Sightholder and sorted required amounts of the loosed goods. Security was enhanced and transportation costs were eliminated because all grading was performed on the sightholder's premises.
2. The information was collected and proper documentation was produced.
3. Examined goods that passed GSI's inspection by meeting all quality criteria were sealed by GSI employees and prepared for shipment to SEEPZ.
4. Examination records and certificates were saved in GSI's data base.
5. Once goods were delivered to SEEPZ, GSI team unsealed the shipments and examined the goods to confirm their identity. The goods then proceeded through the jewelry production pipeline.
6. After jewelry articles were finished, GSI once again inspect the goods to verify that diamonds were not damaged during production.
7. Final tally results were transmitted to GSI's US office and reports were issued while the goods were still in transit.
8. Once goods arrived in the US office of the sightholder, the reports were delivered by GSI and matched with jewelry articles.
9. The fully examined and certified jewelry was delivered to the purchaser, with all records accessible via the internet.

Benefits

GSI's MobilLab™ generates significant savings by greatly reducing the rejections in SEEPZ production facilities. The Sightholder was able to immediately evaluate any gems rejected and submit replacement stones for MobilLab™ inspection, without import/export restrictions or additional transportation costs. MobilLab™ allowed the Sightholder to shop for the needed goods on the open market without having to commit to buying before knowing that the goods were of the required size and quality. This gave the Sightholder more planning and ordering flexibility. MobilLab™ significantly reduced production time in Opera House and SEEPZ production areas, and this in turn created direct and indirect cost savings and reduced delays and customer service problems.

MobilLab™ Tools

- GSI proprietary software.
- GSI data base of gemstone records, accessible via the Internet.
- Laptop computers.
- Portable label printers.
- Broadband internet connections with custom Web interfaces.
- Portable professional-quality grading equipment.

In Summary

MobilLab™ is a unique and valuable technology that GIS has created, and it has many benefits in international gem and jewelry commerce. By allowing a skilled team of graders to work virtually anywhere in the world and stay connected to GSI's home office, MobilLab™ creates economic and efficiency advantages throughout the gemstone/jewelry supply chain.