Case Study

Company

Indian Oil Corporation Limited
(At Naphtha Cracker Project)

Project

Employee ID Badging System
& Software

Objective

Created Employee ID Badging
System & Software to resolve
many issues client was facing
at its site

Location

Panipat, Haryana, India

BUSINESS CASE

IOCL Panipat Refinery is the seventh refinery of Indian Oil. It is located in the district of Panipat of Haryana state and is about 23 kms from Panipat City. Panipat Refinery has refining capacity of 12 MMT/yr with the commissioning of its Expansion Project.

IOCL Refinery at Panipat was in expansion phase of Naphtha Cracker Plant. The construction project had mainly three access gates which controlled entry and exit of all the man, machine and equipment for the project. The project was of very high magnitude and involved immense work forces at the peak time, from various contracting and sub-contractor companies involved in the project.

Due to huge number of workforce involvement, IOCL was looking for a solution that would provide quick access to all the work forces on one hand whereas on the other hand, ensuring that the systems implemented are efficient enough to track and identify any unauthorized entries without compromising on the processing time for gaining entry.

With all these problems they approached ASK-EHS because of its EHS prowess and knowledge leadership. After a careful study and analysis of site and the problems faced by the client, ASK-EHS provided ID Badging System and Software, which ensured elimination of all the major concerns related to Access and Egress control of the project.

KEY CHALLENGES

Some of the major challenges which client faced included:-

→ Unauthorized individuals trying to or are gaining entry to the project, some of these categories being,

    a. Individual/Group of individuals with forged id badges,

    b. Individual/Group of individuals on badges of other individuals,

    c. Ex-workers who failed to return the access cards to their contractor,

    d. Workers who have been black listed or marked due to Security or Safety Issues on the Project etc.

→ Client was using plastic cards which had problems like faded, damaged or forged photographs on the ID badges, which made it difficult for Security Forces to visually identify unauthorized individuals.

→ Due to the presence of more than 16 thousand work forces, the turnover of the labor was huge and new passes had to be issued constantly, which again brought up two major issues,

    a. One is cost factor of issued badges, as the actual amount of issued badges was huge in number

    b. The second factor was quick processing of the badges. "Badge Issue Process". It took at least 3-4 days to process one badge with all the quality standards maintained.

WHAT WE DID

→ ASK-EHS team of experts visited the client site and after brief discussion came out with solution on the major hindrances faced by the client onsite.

→ The Employee ID Badging System and Software by ASK-EHS came as a resolution to all the problems. With unique features this Software helped in

    a. Instant Photograph capturing and ID-Badge Printing Module with batch printing facilities

    b. Tamperproof Hologram to stop counterfeits

    c. Laminated ID-Badge for Long life

    d. Bar-code printing on ID-Badge for daily login and logout operation

    e. Finger print module to deny blocked employees / black-listed employees

    f. Different color code was given for different contractors' employee

    g. Large display of employee photograph on LCD screen during Id-Badge scanning for photograph verification

    h. Vehicle gate pass

    i. Stable and robust login and log out system structure. Employee login-logout terminals at individual gates. Each gate had sufficient no. of terminals for login/logout for immense manpower within provided time frame

    j. Portable Login-Logout Terminals for vehicle entry and customized arrangements for workers

    k. Fast data processing and synchronization for reporting

    l. Customize reporting solutions with intranet/web based report printing facilities

→ ASK-EHS also provided operators to operate, manage and implement the whole system

→ Simultaneously man-power training sessions were also conducted.

With turnkey services and support by ASK- EHS, starting from Studying, Analysis, Development of system architecture, Customization, Implementation and Running complete software system as per the requirement of IOCL.

RESULTING BENEFITS

→ Employee ID Badging System and Software was a huge success as it simplified a very complex procedure of **handling huge manpower** during peak time of the project.

→ With **optimal input** on the software the results obtained were more realistic, fruitful and solution oriented.

→ At **nominal cost,** long lasting ID Badges were issued for smoother operations.

→ The Software provided easy **customization and integration** with other system/software.

END NOTE

The client is very happy and satisfied with the Employee ID Badging System & Software delivered by ASK-EHS and has been successfully using the same since last four years. More than 1 Lakh passes have been issued till now and the process is still ongoing. Looking at the success at Naphtha Cracker Plant, IOCL Refinery also adopted the ID Badging System & Software.

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