ASOFTWARE SYSTEM FOR EFFECTIVE GROWTH OF CO-OPERATIVE SUGAR INDUSTORY

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Abstract:

Information Technology implementation process is the study of design, development and implementation of computer-based Information Systems, particularly in software applications, computer hardware & networking. The Information Technology is relatively large field and covers many aspects. Traditional ways of operations can be transformed into interactive and collaborative ways to help management to take appropriate and precise decisions to increase efficiency and awareness of an organization. Present article helps to study 'software system for effective growth of co-operative sugar industry'. Specifically, this study will address the management and organizational issues that have a direct relationship to IT and related processes implementation needs.

INTRODUCTION:

Sugar industry is one of the most important agro-based industries in India. This industry has a long tradition in this country; it started growing in an organized way during the 1930s after introduction of the sugar industry Totection act in 1932. In India, Uttar Pradesh share major role in sugar industry.

The first co-operative sugar factory was established in Maharashtra by late Padmashree Vithalrao Vikhe Patil inspired and supported by late Vikunth Mehta and Prof. Dhananjayrao Gadgil. The co-operatives have changed the lives of millions of people from villages. Democratic system is adopted to run their business functions. Boards of Directors are elected every five years from their General Property of Directors are elected every five years from their General Body members to keep control over the functioning. They elect Board of Directors are Directors and run the organization. But now a day, the co-operative industries are using soft. using software system for solving the many problems related to management.

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The co-operative sugar factories are back bone of ruler economy. They are not generate only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business, in today's there are 225 sugar mills installed in the state only business.

The state of the state

Therefore the progress of rural Maharashtra depends upon progress of sugar co-operatives. In the era of globalization and liberalization, all industries in private sector have improved their management system through Information Technology and they have improved their performance as well. Information technology is used in cooperative sugar sector for improving management, social and economical growth. The solution this growth is latest developments in the field of IT is 'ERP system', which is gaining success in any facets of corporate world.

2) INTRODUCTION TO ERP:

Enterprise Resource Planning, commonly known as ERP, this system builds on one database, one application, and a unified interface across the entire enterprise. Is also known as packaged business software system that facilities a corporation to manage the efficient and effective use of resource by total integrated solution for the organization's information processing requests, through process-oriented view consistent across the company.

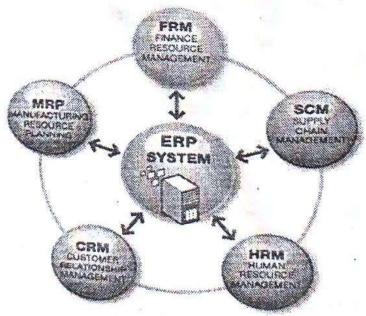


Fig 1 shown as how information is integrated within an organization using the ERP system.

2.1) ADVANTAGES OF ERP SYSTEM:

ERP system gives number of advantages for direct benefits improved

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efficiency, information integration for effective decision making, faster response efficiency, intollination, etc. And Indirect benefits are better corporate image, outlined of the customer goodwill, customer satisfaction. 10 customer goodwill, customer satisfaction.

improved and indirect benefits are given below:

- Business Integration.
- , Flexibility.
- , Better Analysis and Planning Capabilities.
- · Use of Latest Technology.
- , Reduction of lead-time.
- · On-time shipment.
- Reduction in cycle time.
- · Better customer satisfaction.
- Improved supplier performance.
- Improved Quality.

I)SUGARINDUSTRY ERPSOFTWARE

Case study -

The Sugar industry & allied industries are adopting automization & computerization for gaining competitive advantage in standard of work & better decision making. India is one of the biggest sugars producing country where rajority of sugar industries lies in co-operative sector. In fact this co-operative agar industries & subsidiary business units & helping to raise the living standard ofnural India. Co-operative was itself initiated under this vision.

Sugar industries are the first business sector of Co-operative to adopt computerization. Sugar industry works in very complex environment & various bodies regulating & controlling its working right from government, cooperative ministry, international market, labour unions, farmers etc. To handle such complexity with giving quality there is only one way & that is computerization of sugar factories.

Preferring ERP will be a good solution because rather than using many best Acen will work superb. best A centralized database, rich features, perfect data integrity will work superb. It will also support good decision making because of variety of reporting tools & Calegories D. P. polytion as per their talegories. Rarely factories are demanding custom made ERP solution as per their lequirements. lequirements, but prefer readymade quality ERP software products to standardize

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their factory work also. So sugar ERPs are making their impact on development of

sugar industries & helping rural economy to boost. ndustries & helping rural economy
ndustries & helping rural economy
Sugar ERPs are made in various modules. Industry can demand & accept

Sugar ERPs are made in various accept number of modules as per their requirements. Best way, choose the whole package number of modules as per their requirements working the client can get number of modules as per their required at once. More the modules, more standardised working the client can get. Again at once. More the modules, more subsidiary units for by-products. These are Sugar industries have also some alcohol, co-generation, bagas, etc. So this will be beneficiary for industry to use alcohol, co-generation, bagas, etc. Sugar industry activities are not whole package to make full use of it. Sugar industry activities are not only data whole package to make this are machine oriented. So there is need to collect such data from microcontroller based systems into ERP data directly. Such provisions are also provided in many ERP solutions.

It is the sugar ERP software "VSIsugar ERP", developed by Vasantdada Sugar Institute, Pune. Many of the sugar industries uses this software as it provides the standard working mechanism.

3.1) ADVANTAGES OF USING ERP

- ♦ Improvement in Efficiency
- Reduction in manual transaction
- Information integration between various units & departments
- Flexibility in functioning
- Better analysis & planning capability.
- Accurate monitoring on inventories, purchases, bills, etc
- Higher data security
- Avoid data & work redundancy
- Maintain smooth flow of working

Variety of reports in manual, graphs, charts format for better decision making 3.1.2) SUGAR INDUSTRY ERP MODULES -

- Sugarcane management
- Sugarcane Development Sugar manufacturing & chemical laboratory analysis
- Sugarcane farmers billing
- Sugar Sale
- Store Inventory
- Financial accounting
- Shares
- Distillery
- Petrol pump

- Weigh Bridge
- Harvesting & Transport Billing Godown Management
- Purchase & store costing
- Time office
- Sugarcane Deposit
- Fixed Deposits
- Sugar SMS

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Weigh bridge for other products

, Molasses sale

Press mud sale Press must be modules & its functionality in brief as follows - We will see the modules & Store Accounts

We will store Inventory, Purchase, & Store Accounting

System designed as per client's requirement which include Material purchase indent wise & division wise, job allocation support System designation wise & division wise, job allocation summary, annual purchase respecting it uses weighted average method register. For costing it uses weighted average method.

> Financial accounting

lincludes financial entries like sugar sale DD, Supplier bill, employee advance, this module uses Uniform codification & a separate approval system has ben introduced with flexibility option

) Sugar Sale & godown management

Here purchaser account &godown wise stock is maintained. Excise duties are automatically added to the invoice. Various categories of reporting is possible.

> Time Office

hovision of different types of supplementary payments such as retention, back salary, provision of ECR creation, auto voucher facility has been made. This is related with all HR related activities specially designed for sugar industry.

Distillery kovers daily production, molasses purchase and billing. It includes distillery moducts such as RS, ENA, SDS, ODS, ethanol along with removal notice, gate Pass, sample slip, TP was added. Supported by various types of reports.

) Sugarcane Management

It is related with sugar plantation. It supports maturity wise, recovery based cane Marvesting program to increase recovery of sugarcane. Contains MIS reports Section wise, village wise, member & non members wise, etc.

Weigh Bridge records cane weight automatically. Also include information about harvester, transporter, farmer & field.

Sugarcane farmer billing It is connected with weigh bridge module to generate farmer's bills i.e. member,

non member, gate cane, section wise, village wise, etc

Harvesting & transport billing It generates harvesters & transporters billing. Dedicated Ledgers are provided to store transporters. store transactions. Generate periodic bills also.

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Sugar share

Sugar share

Sugar share

Share calculations & payment. Provided by member code

Thereof shares, share amount, date of membership It is for member's share calculations, share amount, date of membership, gender certificate number, number of shares, share amount, date of membership, gender certificate number. age, etc. Election list, & various summary reports.

> Cane Deposit
It is about refundable & non-refundable deposits. Can be deducted by farmers hank according to the second It is about retundable on automatically transferred to farmers bank account. At generated for quarterly or yearly.

4) CONCLUSIONS:-

This system is used by 14.86% of sugar mills in Maharashtra. Thex clients may use full version or may be selective modules as per their requirement Due to this uniformity, it is beneficiary for mills to achieve management economical & social growth. So we can say that, ERP software contributing for the growth of sugar mills. Directly can say growth of total co-operative sector.

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