MAP 'ER 5: THE CASE ANALYSIS

1.1 TQM Practices in DMIB

5.1.1 Some Critical Observation

To obtain ISO 9002 certification is not the ultimate goal in quality management effort. Quality management effort is a continuous process. The certification must be looked at as only meeting minimum quality system requirements. ISO 9000 registration is definitely an important step towards TQM. TQM go beyond ISO 9000. ISO 9000 and TQM complement each other and it is essential to understand both approaches and their relationship to each other to ensure that both are applied appropriately so that their benefits can be achieved.

In essence, ISO 9000 becomes an ongoing process at the root of TQM rather than a certificate awarded for passing inspection on an initial set of written rules. This is illustrated in Exhibit 5.0 with ISO 9000 shown only as a basic foundation for a quality system that for completeness includes other techniques and procedures. "With these additional resources, the resultant system should be better, more dynamic, more comprehensive, more effective, and more economical than that of ISO 9000 alone" (K.S. Stephens, 1993).

XHIBIT 5 ISO 9000 - MINIMUM FOUNDATION FOR QUALITY IMPROVEMENT

Quality awards/Quality audits
Innovation/Customer satisfaction
Methodology/Calibration
Supplier/Co-operation
Variation reduction/SPC/Just In Time
Project by project improvement

Teamwork

Quality costs

Top management

Leadership

ISO 9000

5.1.2 Benefits of TQM

There are many advantages and benefits for the Company to practice good quality management and attain TSO certification. Some of the advantages are:

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5.1.2.1 Improve Customer Satisfaction

Attaining ISO 9002 Certification which certified by the third and independence party (ie. SIRIM), customers are assured of a quality products and are assured that the Company is in control over the process and design development, manufacturing and quality standards.

The Company is able to deliver the desired quality product and services as well as maintain the desired quality consistently and this leads to customer satisfaction.

5.1.2.2 Increase Profitability

In view of the challenging market, the Company should be able to identify problem areas for improvement as non-compliance and defects are identified and analysed for appropriate corrective actions to be taken. The Company should be able to reduce the amount and cost of rejects or reworks with the objective of delivering quality products at reasonable prices as the system is aimed to prevent rather than fixing the problem. This is to increase overall turnover and profit. TOM emphasize on eliminating rework.

5.1.2.3 Improve Productivity

The Company have clearly defined policies, operational procedures and work instruction which help to

enhance communication and understanding

- improves co-ordination
- provides a basis for further improvement
- helps the new and inexperienced staff to learn
- reduce interference from customers' auditors

5.1.2.4 Improve Competitive Position

The Company's competitive position improve with the following advantages:

- The certification meets the requirements of the company's core customers.
- Gain potential customer's recognition of ability to produce quality products.
- Enhances the company's quality image.

5.2 Analysis of DMIB's TQM Practices

The analysis is a qualitative assessment of the Company's practices relation to the core concept in TQM.

Table 3 and Exhibit 6 shows the Company performance in term of waste generated, service return, productivity (kg per man hour), manufacturing time and suggestion trend for the past 7 years.

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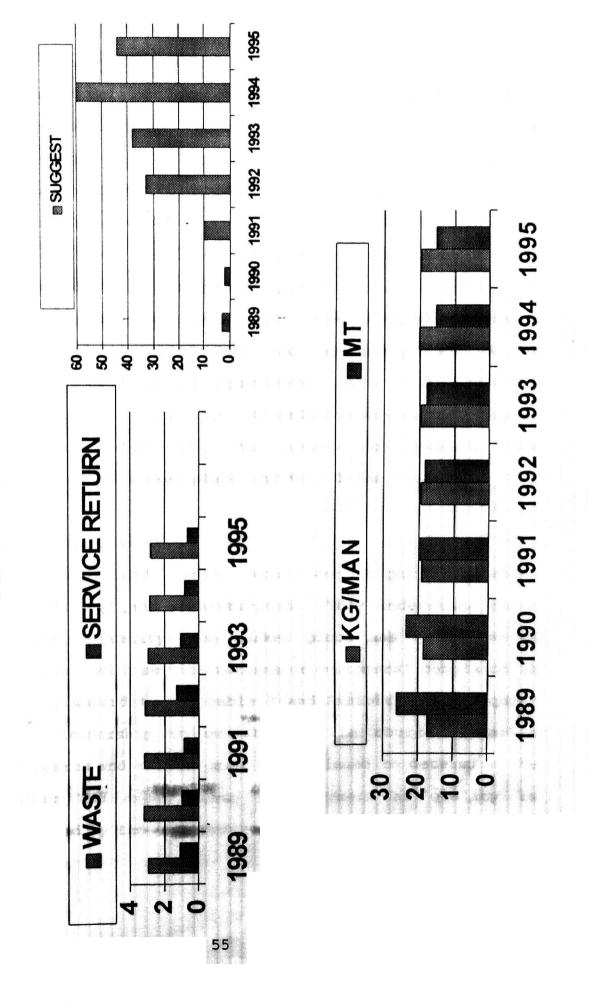
TABLE 3 DMIB Factory Performance From 1989 to 1995

	Waste	Service	kg per	Manufacturing	Suggestion
		return	man hour	time	trend
	(%)	(%)		(mins.)	(No.)
		A STATE OF THE STA			
1989	2.98	1.13	17.4	26.0	3
1990	3.22	1.01	18.6	23.5	2
1991	3.20	0.88	19.1	20.0	10
1992	3.14	1.32	19,5	18.5	33
1993	2.98	1.08	19.6	18.0	38
1994	2.89	0.82	20.2	15.5	60
1995	2.83	0.65	19.8	15.4	44

5.2.1 Quality Improvement

The quality performance of a the Company can be measured in two ways, internal quality ie. amount of waste generated and external quality ie number of complaint received from the customer or percentage of service return.

EXHIBIT 6 DMIB FACTORY PERFORMANCE FROM 1989 - 1995



5.2.1.1 Internal Quality

A lot of waste generated in many organizations in the form of delays, late deliveries, unfulfilled promises, reworking, scrap products and shoddy work. The index shown in Table 3 and Exhibit 6 reflects the rework, scrap products and shoddy in the Company. The control of overall waste has been the measure for internal quality and the figure is showing improvement slowly. About 85 % of the quality problems are caused by the faulty work processes. All these problems are being arrested systematically and gradually and in a continuous drive for improvement. Removal of waste has a by-product - quality. By reducing waste, the Company can be better able to compete in today's ever competitive market place and fulfil the vision.

5.2.1.2 External Quality

Consumers and users today are highly educated, intelligent and sophisticated. They understand their right. Quality from market place has quite varied issues. With service returns or customers' complaint in the downward trend (Table 3 and Exhibit 6), the quest for leadership in quality is on course. Market research and service must be continued to determine the needs and expectations of customers as quality is defined by the customers.

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For a product or service to enjoy customer satisfaction, there are other essential requirements that the Company must meet - cost and delivery. TQM companies should consistently producing high quality, low price products and prompt delivery. A problem in any one of these requirements would consider failure to meet TQM philosophy.

5.2.2 Productivity

Competitive pricing of products are achieved through continuous improvement in 4Ms. Exisiting equipment in the factory are continually being upgraded with automated features to simply and reduce manual work methods resulting in lesser time on operation. The Company is implementing RM200 million modernisation programme to equip the tyre manufacturing plant with the latest state-of-the-art technology and precision equipment.

Manufacturing time and kilogram per man hour are the two measurement for productivity improvement. As stated earlier, TQM companies should be able to deliver quality products or services promptly at competitive price. Both index shown in Table 3 and Exhibit 6 indicated the productivity of the Company has increased from 17.4 kg per man hour in 1988 to 19.8 kg per man hour in 1995 as the result of equipment automation and simplification of processes. The manufacturing time at the same period

reduced from 26 in 1988 to 15.4 in 1995.

5.2.3 Continuous Improvement

In the concept of participative management, all levels of employees are encourage to contribute ideas, suggestions and observations on safety, quality, productivity and welfare in the work place. It is encouraging to see that the number of suggestions per month has increased from 3 in 1989 to 44 in 1995. Refer to Table 3 and Exhibit 6 for the suggestion trend from 1989 to 1995.

5.3 Proposed Improvement

Over the year, the Company has embarked on a number of TQM activities. The Company has done well in some areas but not so in others. Table 4 summarise the initiatives introduced, current status and proposed improvement.

1 Mission Statement (1996).

- t the concept of Total Quality Management. Need time to obtain the effect of the launching of the Mission is important officially lauch Statement. It Н and communicated but newly launched. No official lauching of Total Quality Management in Well established the Company.
- and the 2 Need more commitment from the top management to support to explanation provide operators.

2. Problem solving.

are trained in TQM, SPC, 4S, employees TBC and etc. Most

Need continuous follow up to

ensure the tools are being

Re-training

correctly used.

is very important to upgrade

the employee's skill.

for SGA team formed trouble shooting. 4500 7

training of 5% Company's payroll. Fair; Annual expenditure = 3. Training for employees.

Merchanism of the street

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theTraining should start with the and convey the message to the Continuous top management and executive company objective and goals in order to be able to explain improvement is an important training should be conducted where they should be very part in TQM. Training and reregularly for all employees. and understand operators. clear

4.	Rewards and recognition.	Incentives are more for	More emphasize should be to
		individual.	team rewards and recognition.
5.	Management practices.	Well defined and communicated	Cohesiveness and teamwork
		but inadequate practices.	should be prioritised. An
		Quite an open style.	open style with clear and
			consistent objectives which
61			encourages problem solving and
L	portuge.		group-derived solutions.
•	Customer requirements.	Not all employees are aware of	Identifying external and
		internal and external customer	internal customer is very
		requirements.	important for process

evaluation and improvement.