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Technical Report



IMPLEMENTATION PROBLEMS OF MANAGEMENT CONTROL SYSTEMS

S K Bhattacharyya J C Camillus

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S K Bhattacharyya
J C Camillus
Institute of Management, Ahmedabad

This report summarizes the initial findings of the research project on implementation problems of management control systems sponsored by the Indian Institute of Management, Ahmedabad, with the support of the Institute of Chartered Accountants of India. It must be emphasised that the findings at this stage represent just a "first cut" at the data and that a considerable amount of statistical analysis as well as in-depth interviews remain to be executed.

This research project would not have been possible without the financial help of the Indian Institute of Management, Ahmedabad, the unstinted support of the Institute of Chartered Accountants of India, and most importantly, the tremendous amount of co-operation provided to the researchers by the corporate sector. The response rate to the questionnaire has been truly phenomenal. In fact, in view of the length of the questionnaire, it is indeed a matter for considerable gratification, that the researchers can now analyse the management control practices of over 90 selected, large Indian companies.

The researchers wish to place on record the tremendous debt of gratitude owed to the Indian Institute of Management, the Institute of Chartered Accountants of India, and the companies that participated in the research study.

Objectives of the Research Project

The design of Management Control Systems has been essentially "standardised" for the past few years as a result of extensive research, writing, and practical experience. However, as pointed out by Professor John Dearden in his acceptance speech on assuming the Krannert Chair at the Harvard Business School, the major problems

presently being experienced with regard to management control systems relate to implementation and administration rather than design.

"Administration is the key. What must be recognised is that for effective implementation, the same technique may have to be administered differently depending upon the organizational variables"

Unfortunately, the research that has been done so far on implementation problems, is more relevant to the Western than the Indian business environment, and considers problems individually rather than in their totality.

The specific objectives of this research project are, therefore, to provide a deeper understanding and systematic analysis of the implementation problems of management control systems in Indian companies, and to determine the relationship, if any, between these problems on one hand, and the characteristics of the companies and the design of management control systems on the other.

The Basic Hypothesis

The basic hypothesis of the research study is that the effectiveness of management control systems depends on the manner in which the system is implemented and administered. Implicit in this basic proposition is that the design of the management control system itself is not so critical in terms of effectiveness.

In addition to testing the validity of this basic hypothesis, the research study seeks to identify the relationships between the characteristics of the companies in which the systems operate and the problems experienced, and also relationships between the characteristics of the management control systems and the implementation problems experienced. This analysis, it is expected, will lead to insights and recommendations regarding the situations in which particular problems are likely to arise and measures to be taken in system design in order to avoid occurrences of such problems.

¹ See: Harvard Business School Bulletin, (Vol.45, No.6, November-December 1969), p.26

Classification of Implementational Problems Anticipated

The researches conducted by Deming² and Stedry³ are typical of the normative analyses on the basis of which the design of management control systems has been standardised. Such research also helps identify possible problems areas that are likely to be encountered. Drawing from these works and from case studies and practical experiences in designing and implementing management control systems, a classification of the implementation problems on which the study focuses, was developed.

The implementational problems anticipated need to be broken up into:

- a) Problems that impede the management control process.
- b) Problems that are dysfunctional consequences of the management control processes.

Each of these categories can in turn be meaningfully segmented into:

- a) Organizat conal and behavioural problems.
- b) Technical problems.

Impediments to MCS Implementation

Organizational and behavioural problems likely to impede the management control process can be assigned to one of the following groups:

- i) Problems resulting from inappropriate formal organizational structures. Ill-defined lines of authority and responsibility would fall into this category. Organizational boundaries and sub-units which are not in keeping with the responsibility centres identified by the control systems are
- 2 Robert H. Deming, Characteristics of an Effective Management Control System in an Industrial Organization, (Boston: Division of Research, Graduate School of Business Administration, Harvard University, 1968).
- 3 Andrew C. Stedry, <u>Budget Control and Cost Behavior</u>, (Englewood Cliffs, N. J.: Prentice-Hall, 1960).

another example of such problems.

- ii) Problems arising from corporate philosophies, norms and cultures detrimental to the concept of control implicit in the design of management control systems. In this category would also fall problems arising from a lack of understanding of the motivational connotations of management control.
- iii) Problems arising from existence of informal organizational linkages and communication which are not in keeping with those presumed to exist by the control system.
- iv) Problems arising from a lack of competent executives to administer the management control system. This group of problems is anticipated in view of the fact that in India there are relatively few trained "Controllers", as distinct from "Accountants".

Technical problems likely to impede the implementation of management control systems primarily arise from:

- i) The accounting process for instance, the trade-off between speed and accuracy in providing financial accounting data and the fact that decisions made in certain accounting periods give rise to consequences in other accounting periods.
- ii) The conflict between the assumptions necessary for custodial accounting for purposes of statutory external reporting and those required for management control.
- iii) The differing time spans for management control and operational control decisions and the impact of both types of decisions on each functional area. For instance, production budgeting as an input to the management control system would be

essentially long-term with an emphasis on the "product-mix" wherean production scheduling oriented towards operational control is more short-term and based on sales indents and inventory criteria.

Dysfunctional Consequences of MCS Implementation

Dysfunctional behavioural consequences of control have been the subject of considerable study. Merton4 for instance analyzed the effect of an increase in control within an organization and asserts that one of the results of an increased demand for control within an organization is a decrease in the amount of search for alternatives. March and Simon5 in their appropriately famous decision model consider the expected value of reward - which is essentially an MCS consideration - to be an important determinant in the management decision making process. Cyert and March 6 analysed the impact of control on behaviour by introducing behavioural considerations into an economic model of the firm. O.E. Williamson also developed models along these lines. Stedry's prize winning dissertation too, looked at the impact of budgets on behaviour. Most recently Dalton has been engaged in continuing research on aspects of motivation and control.

⁴ R.K.Merton, "Bureaucratic Structure and Personality", Social Forces, Vol. XVIII, (1940), p. 560-568.

⁵ James G. March and Herbert A. Simon, Organizations. (New York: John Wiley and Sons, 1958).

⁶ Richard M. Cyert and James G. March, <u>A Behavioral Theory</u> of Firm. (Englewood Cliffs, New Jersey: Prentice-Hall, 1963).

⁷ O.E. Williamson, The Economics of Discretionary Behavior:

Managerial Objectives in a Theory of the Firm. (Chicago: Markham Publishing Co., 1967). Also: Corporate Control and Business Behavior, (Englewood Cliffs, N. J: Prentice-Hall, 1970).

⁸ Op. cit.

⁹ Gene W. Dalton, and Paul R. Lawrence, eds., Motivation and Control in Organizations, (Homewood, Ill.: Richard D. Irwin, 1971).

Unfortunately, all these efforts to determine the dysfunctional behavioural consequences of control suffer from the following drawbacks when looked at from the perspective adopted for the proposed study.

- a) The findings of these research studies cannot be extended to cultures other than those of the industrially developed occidental countries.
- b) The approaches are broad-gauged. The thrust is essentially to determine the consequence of efforts at manipulating behaviour; whereas this study is considerably more operationally focussed, with the intent of identifying dysfunctionalities in behaviour resulting from the introduction of management control systems.

Consequently an identification of dysfunctional behaviour resulting from the introduction of management control systems is a very deeply felt need at present.

Dysfunctional consequences of a technical nature have also been the subject of considerable study. Typical are Dearden's article on problems of financial on and profit control based on "Return on Investment". Some solutions to these technical problems have also been proposed - for example Henderson and Dearden's article on the contribution approach to divisional control. In the case of technical problems too, not much research has so far been accomplished in the Indian context.

¹⁰ John Dearden, "Problem in Decentralised Financial Control", Harvard Business Review, (May-June 1961).

¹¹ John Dearden, "Problem in Decentralized Profit Responsibility," Harvard Business Review, (May-June 1960).

¹² Bruce D. Henderson and John Dearden, "New System for Divisional Control," <u>Harvard Business Review</u>, (September-October, 1966).

The dysfunctional consequences of management control systems express themselves primarily in terms of behaviour detrimental to the achievement of corporate goals and objectives. The distinction between problems that have been labelled 'organizational and behavioural' and 'technical' is that the former stem from the management attitude towards control whereas the latter are the result of the management control system rewarding dysfunctional behaviour.

Methodology

In terms of data collection, it is intended that both the questionnaire and the interview methods will be used.

At this time, questionnaires have been sent to about 170 carefully selected Indian companies. At the moment, ninety-three responses have been received. Of these ninety-three, eighty-eight questionnaires have so far been coded, transferred to magnetic tape and stored in the memory facilities of IIMA's HP 2116B Computer.

The companies to whom the questionnaires were sent had been selected on the basis of their size, location, nature of operations, type of ownership and management style.

The questionnaire employed is reproduced as Annexure I.

The statistical analysis carried out on the eight-eight companies already in the data bank, has so far included frequency distributions and some preliminary contingency table analysis. 13

Following this initial scanning of the data which has already been executed, in-depth statistical analysis of all respondents will be carried out. In addition to the above statistical techniques, it is planned to employ multiple regression, (using the dummy variable technique) in order to obtain multiple correlation statistics.

In addition to the data obtained from the questionnaires, the published financial statements of the respondents have also been employed as a source of data in the project.

¹³ These terms are explained later on in this report.

The frequency distributions of the data obtained from the questionnaire and from published financial statements are given as Annexures II and III, respectively. The findings of the analysis of association (correlation) between perceived effectiveness of the system and selected other variables is given in Annexure IV.

After the statistical analysis has been completed, in-depth interviews with selected respondents will be carried out in order to obtain a better understanding of the statistical implications. Also more pragmatic recommendations should, hopefully, result from carrying out such interviews.

Characteristics of the Companies in the Data Bank

Frequency distributions of characteristics thought to be of interest are given in Annexure III. (By frequency distribution is meant of number of companies which fall into the various categories pertaining to the particular characteristic under study.)

It may be of interest to look first at Annexure III which gives statistics relating to the financial characteristics of the companies in the data bank. It will be observed that the companies are very large and that generally speaking most of them have an impressive record of growth in profits and sales. The management style of the companies of the data bank will also be of particular interest. (Annexure III, Variable 200).

Additional company characteristics are also given in Annexure II (Variables 022 to 014). These characteristics also confirm the fact that the companies of the data bank are large. It will be noted that:

- 78% of the companies have over 1000 employees.
- 2. 22% essentially sell industrial goods, and 32% primarily sell to individual consumers.
- 3. Of the Board of Directors, only the Managing Director is involved full time in the affairs of the company in 39% of the respondents, and two to three directors are involved full time in 35% of the companies.

4. Approximately 70% of the companies have less than 50% or less of equity held by foreign interests.

Some Generalization Based on the Frequency Distributions (Annexure II)

Almost all the respondent have formally stated organizational objectives. In fact eight of the companies employ five or more parameters (such as profits/sales/ROI/etc.) when stating their organisational objectives.

The degree of sophistication and detail employed in developing and stating the sales budget is generally very high. For instance 36 out of 84 companies replying to this particular question break up their sales budget both productline-wise and geographic region-wise. Another 42 break up the sales budget in either geographic region or product-line categories. Monthly sales budgets are developed in most of the companies. The sales budget is reviewed by top management in at least 64 out of 83 companies. Past sales, competition and specific estimates of customers' demands are all employed in the large majority of companies as bases on which the sales budget is developed. Twenty out of eight-three companies also consider econometric data when developing sales budgets.

Production budgets are also quite detailed. The emphasis is primarily on costs - with the majority of companies specifically identifying variable, departmental and non-routine costs and also fixed overhead. Sixtyeight out of seventy-six companies also identify "contribution" or "margin", for either product-lines or products. In terms of non-financial indicators, the production budgets generally do not consider these except for two, namely:

1) standards for material consumption, and 2) standards for planned yield.

With regard to the overhead budget, seventy-six out of eighty-two companies develop such budgets. Fifty-five out of seventy-four classify overhead costs into both discretionary and committed costs and only nine use neither of these classifications for overhead costs.

With regard to the company-wide budget seventy-one out of eight-live companies break up their cash flow statements into quarterly or shorter periods. Only three of the eighty-five do not develop cash flow statements. Working capital too is budgeted in almost all companies.

Participation of lower levels of management in the development of budgets is quite extensive. In twenty-nine out of eighty-five companies there has to be a mutual agreement between operating and top management. In another fifty-three, the opinions of operating management carry weight.

Reviews with intent to revise the budget are not ordinarily held in thirty-two of eighty-five companies. In forty-two out of eighty-six companies the budget is revised only if there are drastic changes beyond managements control.

All companies initiate their budget development at least a month prior to the start of the budget year. Fifty out of eighty companies initiate the budget development over three months prior to the budget year.

The large majority of companies identify variances in the reports going to various levels of management. These variance reports include even items such as non-financial measures of performance. Reviews of actual versus expected performance are carried out at least quarterly in seventy-six out of eighty-five companies.

The concept of responsibility centres is applied in seventy-one out of eight-four companies. Profit centres exist in thirty-six out of these eighty-four companies.

The executive in charge of administering the management control system, in most cases reports to the Chief Executive of the company. It may also be of some interest to note that in eleven out of eighty-two companies the executive administering the management control system is designated as the "Controller", and in another nine companies the designation is "Chief Accountant".

Finally, another intersting aspect is that reports are prepared by means of punched cards or by electronic data processing equipment in half the companies.

The overall impression regarding the design of the management control systems among the respondents is that the majority of these systems are quite "sophisticated" in that their design incorporates most elements thought important from a theoretical standpoint.

Association (Correlation) Between Measures of Eifectiveness and System Design Characteristics

Contingency table analysis was employed to examine the relationship between the design of the systems and the perceptions of the respondents regarding the effectiveness of the systems along several dimensions. 14

14 The most useful statistics developed from contingency table analysis are the contingency coefficient and the level of significance. For those unfamiliar with these measures any text on statistics should provide an explanation. A useful work is "Non-parametric Statistics" by Sidney Siegel.

Very briefly, the higher the contingency coefficient, the greater the association between two variables. Generally speaking a contingency coefficient of 0.3 or more is indicative of a meaningful association between two variables - given the low number of degrees of freedom involved.

The <u>level</u> of <u>significance</u> is given in percentage terms and is a measure of the probability that the statistics obtained are the result of a random occurence. For instance a level of significance or "confidence level" of 1% means that there is only a 1% chance of the observed relationship being a random occurence. It would be necessary therefore to view the contingency coefficient from the perspective of the significance level. A significance level of 5% is generally accepted as satisfactory.

The preliminary contingency table analyses carried out are listed in Annexure IV. Even these preliminary analyses very clearly and unmistakably bear out the basic proposition that the effectiveness of management control systems depends primarily on implementation and administration, and only to a very limited extent on the design of the system.

Effectiveness of the management control system with regard to overall corporate performance has a significant association (significance level within 5% and contingency coefficient greater than 0.3) with only one out of the thirteen system and corporate characteristics considered. On the other hand, significant association exist with respect to fourteen of the eighteen implementation problems considered. The conclusion is inescapable implementation is the key to effectiveness of management control systems.

While all the associations identified are of interest, it is particularly intiguing to note two of the problems more highly associated with effectiveness, namely:

- a) Authorities and responsibilitias of individuals not being defined with adequate clarity (Variable 161).
- b) Inadequate status being given to the administrator of the control system (Variable 168).

Conclusions

The preliminary statistical analyses of eight-eight, large, generally successful, Indian companies highlighted the fact that the majority of these companies had control systems of quite sophisticated design.

Implementation, rather than design, is very clearly the key to effectiveness. However, in developing approaches to minimizing the implementation problems, the tailoring of system characteristics to minimize implementation problems is a distinct possibility. In forcer to do this, the implementation problems need to be analyzed with regard to their origin. Do they stem from company characteristic, from managerial values, from environmental factors or perhaps, possibly, from inappropriate system design?

The further statistical analysis that is envisaged, coupled with in-depth interviews of various levels of management in selected companies should provide some of the answers, including the critical one of how to minimize problems of implementation and administration.

ANNEXURE I

QUESTIONNAIRE EMPLOYED

INDIAN INSTITUTE OF MANAGEMENT, AHMEDABAD

UESTICHMAIRE ON MANAGEMENT CONTROL SYSTEMS DESIGN AND IMPLEMENTATION

A. COMPANY CHARAC PERISTICS

1.	How many employees does your company have?
2.	What activities are included in your company's operations? Please tick mark the boxes against the activities applicable.
	a. Mining or harvesting of raw materials b. Refining or processing of bulk materials c. Fabricating the components of finished products d. Assembly of finished products e. Distributing products to customers f. Providing services to customers ()
3.	In how many difference locations are the products of your company produced or processed? (If your "product" is a set of services, please indicate the number of service centres.)
	a. At a single location b. Two to three locations c. Four to five locations d. More than five locations e. By others only (purely "distribution" company) ()
4.	How many "product lines" (i.e., a group of products which are considered as a single package for most management decisions) does your company produce?
	a. One product line b. Two to three product lines c. Four to five product lines d. More than five product lines ()
5.	How many customers (approximately)
6.	Please indicate the percentage of the 1971 sales revenue of your company from each of the following types of customers:
	Type of customer and product % of 1971 sales revenue
	a. Government(capital goods) b. Government(consumables/services) c. Industrial (capital goods) d. Industrial (consumables/services) e. Consumer(durable goods) f. Consumer (consumables/services)

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	material is	ted raw material	
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	company	that I know	pany
th a. b. c.	e company? Only the managiof the company Two or three di of the company An executive co full time in th The board of di cutives of the	ng director is involved rectors are involved fur mmittee formed of sever running of the companientors is formed prima company	al directors is involved y () rily of full time exe-
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th a. b. c. d. Pl in 0% 1-126 51	e company? Only the managi of the company Two or three di of the company An executive co full time in th The board of di cutives of the ease indicate th your company 10% -25%	ng director is involved rectors are involved fur mmittee formed of sever running of the companientors is formed prima company	full time in the running () ll time in the running () al directors is involved y () rily of full time exe- ()

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Question number	Variable number	Description of "Variable"	No. of companies	comp
A.7.b.	011 A	vailability of raw materials	•	
	S.	cale with 1 = critical problems	17	19
		2 =	9	10
		3 = average	39	44
		4 =	8	Ç
		5 = no problem	IO	1.3
	. a	nd no response	5	. 5
A.7.c	012 D	ependence on imported raw-materials		
	Sc	ale with 1 = critical	26	29
		2 =	6	6
		3 = average	2 4	2
		4 =	9	10
		5 = unimportant	17	19
1 4 -	ar	nd no response	6	6
A.8	013 Ir	nvolvement of Board of Directors	•	
	Or	nly Managing director is involved	34	38
		-3 directors involved fulltime kecutive Committee of several directors	31	35
	; . -	involved fulltime	11	
	Во	pard is comprised primarily of full time	11	12
		employees employees		•
	No	response	8 4 .	9 4
A.9	014 Pe	rcentage equity held by foreign interests		
	0%	and the second	. 33	37
	1%	5 + 10%	5 5	5
		% - 25%	6	6
		% - 50%	18	
		% to 75%	14	20 15
		er 75%	9	15
		response	. 9 3	10 3.

				4
Question Number	Variable Number	Description of "Variable"	No.of Companies	% of companies
je s Lije		B. OBJECTIVES		- •
B•1	015	Parameters of objectives - comprehensive		
		No objective	2	2.27
		1 objective	22	25.00
		2 objectives	21	23. 86
		3 objectives	20	22.73
	• ; •	4 objectives	14	15.91
		5 objectives	. 8	9.09
		No response	1.	1.14
B.1	016	Selected parameters of objectives		
		No objectives	2	2.27
		Profits	16	18.18
		ŘOI	Ĩ	1.14
		Profits and ROI	3	3.41
		Profits, ROI and others	59	67.05
	:	No response	7	7.95
B.2 (D.C.)	017	Number of months prior to start of financial year, that objectives are decided upon	l	4 85
		Less than 1 month	4	4.55
		From 1 to 3 months	44	50.00
		More than 3 to 6 months	.31	35.27
		More than 6 to 9 months	1	1.14
	_	More than 9 months	2	2.27
		No response	6	6.82
B.3	018	Criteria employed in formulating objectives		
		Not applicable, no objectives are developed	1	1.14
		Only 1 of the criteria is considered	LL	12.50
		2 of the criteria are considered	11	12.50
		3 of the criteria ar- considered	17	19.32
		4 of the criteria are considered	16	18.18
		5 of the criteria are considered	16	18.13
		All 6 criteria are considered	15	17.05
		No response	1	1.14
в.3	019	Past performance as a criterion based on which objectives are developed		
		Employed as a criterion	83	94.32
		Not employed as a criterion	4	4.55
		Not applicable	i	1.14
		Mor aphirogram	-	T # T -4

question Number	Variable Number	Description of "Variable"	No,of companies	% of companie
в.3	020	Political, social and economic environment as a criterion	•	
		Employed as a criterion	53	60.23
		Not employed as a criterion Not applicable	34	38.44 1.14
B.3	021	Competitive trends as a criterion	. '	
	٠.	Employed as a criterion	40	45.45
	·	Not employed as a criterion	47	53.41
•		Not applicable	1	1.14
B.3	022	Strengths and weaknesses of the company as criterion		
		Employed as a criterion	57	64.77
		Not employed as a criterion	30	34.09
		Not applicable	1	1.14
B.3	023	Plans for capital projects as a criterion		
•		Employed as a criterion	5 5	62.50
		Not employed as a criterion	3 2	36.36
		Not applicable plans	1	1.14
B.3	024	Manpower/as a criterion		
		Employed as a criterion	30	34.09
		Not employed as a criterion Not applicable	51 1	64.78 1.14

				6
Question Number	Variabl Number	lincomination of Hills-1-61-1	No. of companies	% of companies
		C. THE BUDGETING PROCESS I Sales Budget		
C.I.I.	025	Bassis on which the sales budget is prepared	I - (
		Only for the company as a whole Geographic region wise Product line wise Both geographic and product-line wise No response	6 6 36 36 4	6.82 6.82 40.91 40.91 4.55
C.I.2	026	Periods into which the sales budget is broke	n up	
		Not broken up into periods less than a year Half-yearly periods Quarterly periods Monthly periods No response	14 0 21 48 5	15.91 0 23.86 54.55 5.68
C.I.3	027	Who prepares the sales budget	•	
		Sales manager Sales manager jointly with staff Sales manager jointly with prodn. Sales manager jointly with production and purchase Other No response	2 19 21 23 19 4	2.27 21.59 23.86 26.14 21.59
C. I.4	028	By whom the sales budget is reviewed before acceptance	7	4.55
		Not reviewed Reviewed by Sales Director Reviewed by Sales Director and Controller/	2 2	2.27 2.27
	·	Reviewed by top management Reviewed by Sales Director and top	5 57	5.68 64.77
		Management Other No response	7 10 5	7.95 11.36 5.68

Question Number	Variable Number	Description of "Variable"	No. of companies	% of companies
C.I.5	029	Considerations taken into account when developing the sales budget		:
		No considerations taken into account	0	0
		1 consideration	15	17.05
		2 considerations	2 2	25.00
		3 considerations	. 26	29.55
		4 considerations	17	19.32
		5 considerations	3	3.41
		No response	5	5.68
C.I.5	030	Projections of past sales as a basis for the	e	
		sales budget		
		Not considered	17	19.32
	•	Considered	66 …	75.00
		No response	5	5.68
C. I.5	031	Competition as a baris		
		Not considered	37	42.0
		Considered	46	52.2
		No response	5	5.6
C.I.5	032	Econometric data as a basis		
		Not considered	63	71.59
		Considered	20	22.73
		No response	5	5.6
C.I.5	033	Specific estimates of likely demands from existing and potential customers as a basis		
		Not considered	17	19.3
		Considered	66	75.00
		No response	5	5.6
C.1.5	034	Other bases		•
*		Not considered	60	68.1
		Considered	23	26.1
		OO113 TOCT CO		

Question Number	Variable Number	Description of "Variable"	No. of companies	% of companies
***		II Production Budget	· ····	
C.II.1	035	Consideration influencing the production budget		
		No considerations taken into account 1 consideration 2 considerations 3 considerations 4 considerations No response	2 15 22 29 7 13	2.27 17.05 25.00 32.95 7.95 14.77
C.II.1	036	Budgeted sales as a factor in influencing the production budget	e	•
	?	No considered Considered No response	7 69 12	7.95 78.41 13.64
C.II.1	037	Inventory levels as a factor		
	<i>i</i>	Not considered Considered No response	36 40 12	40.91 45.45 13.64
C.II	038	Availability of raw materials as a factor	* : : · · · ·	• • •
:	÷.	Not considered Considered No response	27 49 12	30.68 55.68 13.64
C.II.1	039	Availability of finance as a factor		
÷ .		Not considered Considered No response	60 16 12	68.18 18.18 13.64
C.II.2	040	Quantity of production as an item in the budget document		
		Not included Explicitly identified No response	2 76 10	2.27 86.36 11.36

C.II.2			companies	companie
0.11.2	Ö41	Delivery schedules as an item		·
		Not included	57	64.77
í -		Explicitly identified	21	23.86
		No response	10	11.36
C.II.2	042	Quality of products as an item	· · .	
		Not included	54	61.36
		Explicitly identified	24	27.27
		No response	10	11.36
C.II.2	043	Costs at which goods are to be produced as		
		an item	•	
· · · · · · ·	,	Not included	24	27.27
•		Explicitly identified	54.	61.36
4		No response	10	11.36
0.11.3	044	Variable costs as a category when specifying		
***		the costs of production	•	
		Not employed	6	6.82
		Employed	70	79.55
		No response	12	13.64
C.II.3	045	Departmental costs as a category		
	•	apper minimum do do do do date gory		÷
		Not employed	22	25.00
		Employed	54	61.36
		No response	12	13.64
C. II .3	046	Non-routine costs as a category		
		Not employed	32	36.36
	•	Employed	44	50.00
		No response	12	13.64
C.II.3	047	Fixed overhead as a category		
		Not employed	9	10.23
		Employed	67	76.14
		No response	12	13.64
C.II.4	048	"Contribution" or "margin" for products or product lines		
	-	Not identified	8	0.00
		Identified for product lines	22	9.09 25.00
		Identified for individual products	46	52 .27
		No response	12	13.64

				10
Question Number	Variable Number	e Description of "Variable"	No. of companies	% of companies
C.11.5	049	Development of "purchase price variances"		, .
		Not developed Developed Developed but not allocated to the	25 13	28.4 <u>1</u> 14.77
·		purchase department No response	39 11	44.32 12.50
C.II.6	050	Identification of "standards", in production budget, for materials consumption		
		Not identified Identified No response	6 71 11	6.82 80.68 12.50
C.II.6	051	"Standards" for planned yield		
	:	Not identified Identified No response	19 58 11	21.59 65.91 12.50
C.II.6	052	Other non financial "standards"		
		Not identified Identified No response	50 24 11	60.23 27.27 12.50
C.II.7	053	Who develops the production budget		
		Production manager Production manager jointly with de-	6	6.82
		partment heads reporting to him Production manager jointly with sales	25	28.41
		executives Production manager jointly with sales and purchase executive	17	19.32
		No response	· 26 · 14	29.55 15.91

Question Number	Variabl Number	e Description of "Variable"	No.of compan ies	% of companies
C-II.8	054	Who reviews the production budget		
		Not reviewed	0	0
		Production dimector	3	3.41
		Production director and controller/	J	5. 1
		chief accountant	4	/4.55
		Controller/Chief accountant	2	2.27
		Top management	55 13	62.50
		Other	13	14.77
		No response	11	12.50
C .11.9	05 5	Revision if actual production is out line with budgeted production		
		Budget is revised	53	60.23
		Budget is not revised	25	28.41
		No response	10	11.36
C/II.10	056	Periods into which the production budget is broken up	•	
		Not broken up into periods less than a wear	10	11.36
		Half-yearly periods	2	2.27
		Quarterly periods	15	17.05
		Monthly periods	51	
	•	No response		57.95
		No response	10	11.36
				······································
		III Overhead Budget		
C.III.1	057	Existence of an overhead budget		
		Does not exist	6	6.82
	••	Exists	76	86,36
		No response	6	6.82
C.FII.2	058	Categories into which overhead costs are separated		in the second
		No classification	9	10.23
		Discretionary costs	6	6.82
		Committed costs	4	4.55
		Both discretionary and committed costs	55	62.50
		No response	14	15.91

Question Number	Variabl Number	e Description of "Variable"	No. of companies	% of companies
C.III.3	059	Who develops the overhead budget	:•.	•
		Controller/Chief Accountant Heads of line and staff departments	2 4	27.27
		jointly	38	43.18
		Other	15	17.05
	•	No response	11	12,50
C.III.4	060	Whether the ovrhead budget is reviewed and by whom		
		Not reviewed	2	2.27
		Reviewed by Controller/Chief accountant	8	9.09
		Reviewed by top management	5 8	65.91
		Reviewed by other	8	9.09
1 1		No response	12	13.64
		IV. Company-wide Budget		
C. IV.1	061	Whether PAT/PBT is budget for the company as a whole		
	•	No	2	2 .27
		Yes	82	93.18
		No response	4	4.55
C.IV.2	062	Periods into which the annual cash flow statement is broken up:		
		Not applicable	3	3.41
		Only annual cash flows	8	9.09
		Half-yearly periods	3	3.41
		Quarterly periods	11	12.50
		Monthly periods	5 5	62.50
		Other	5	5.68
•		No response	3	3.41
C.IV.3	063	Considerations taken into account when budgeting working capital		
		Not applicable	7	7.95
		None of the considerations	1	-1.14
•		l of the considerations	3	3.41
		2 of the considerations	3	3.41
		3 of the considerations	10	11.36
		4 of the considerations	19	21.59
		5 of the considerations	37	42.05
		6 of the considerations	4	4.55
		No response	4	4 .5 5

		13		
Question Yumber	Variable Number	Description of "Variable"	No.of companies	% of companies
C. IV.3	064	Credit terms given and level of A/c's receivable as a consideration	ing the second second	, † .
		Not taken into account Taken into account No response	16 68 4	18.18 77.27 4.55
C. IV.3	065	Inventory levels as a consideration		
		Not taken into account Taken into account No response	11 73 4	12.50 82.95 4.55
C.IV.3	066	Marketable securities, debentures, government securities etc. as a consideration		
		Not taken into account Taken into account No response	76 8 4	86.36 9.09 4.55
C.IV.3	067	Credit terms received and level of accounts payable as a consideration		
		Not taken into account Taken into account No response	21 63 4	23.86 71.59 4.55
C.IV.3	068	Bank facilities available, including secured loans as a consideration	ਲ ਹ	1. No. 2.
		Not taken into account Taken into account No response	19 65 4	21.59 73. 96 4.55
C.IV.3	069	Dividend requirements as a consideration		
		Not taken into account Taken into account No response	37 47 4	42 .05 53.41 4 . 55
C.IV.4	070	Whether the company-wide budget is reviewed and if so by whom		
		Not reviewed Board of Directors Managing Director Other No response	0 28 30 25 5	0 31.82 34.09 28.41 5.69

			14	
Question Number	Variable Number	Description of "Variable"	No.of companies	% of companie
C. IV.5	071	Action following review of budget	· .	
		Not applicable Reasons are suggested Revisions are unilaterally decided No response	1 38 42 7	1.14 43.18 47.73 7.95
		18 4 4 2 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	1771 Const	· i · id·
		V. Budgeting (General)		
C.V.1	072	Extent of participation in budget develop- ment		
		Budget may be finalized without	."	
		consultation Budget finalized only after obtaining	3	3.41
		opinions of implementing managers Budget finalized only after mutual	53	60.23
		agreement : : : : : : : : : : : : : : : : : : :	29	32 .95
		No response	3	3.41
C.V.2	073	Frequency of reviews with intent to revise the budget		į.
		No such planned revisions	32	36.36
		Half-yearly review	37	42.05
		Quarterly reviews	16	18.18
		No response	3	3.41
C.V.3	074	Reasons for budget revisions		
	:	Budget is never revised Revised if actual performance deviates more than a specified	21	23.86
		percentage from expected performance Revised only if there are drastic	19	21.59
		changes beyond management's control	42	47.73
		No response	6	6.82

Question Number	Variable Number	Description of "Variable"	No.of Companies	% of companies
C.V.4a	075	No.of months ahead of the budget year that budget development is initiated		
		Less than 1 month From 1 to 3 months More than 3 to 6 months More than 6 to 9 months More than 9 months No response	0 30 40 7 3 8	0 34.09 45.45 7.95 3.41 9.09
C.V.4.b.	076	No. of months ahead that review prior to finalization of the "Company-wide" budget is held		
		Less than 1 month From 1 to 3 months More than 3 to 6 months More than 6 to 9 months More than 9 months No response	6 51 17 2 4 7	6.82 57.95 19.32 2.27 4.55 7.95
C.V.4.c.	077	No. of months ahead that the "company-wide budget"is finalized		
·		Less than 1 month From I to 3 months More than 3 to 6 months More than 6 months More than 9 months No response	26 43 9 1 2 7	29.55 48.86 10.23 1.14 2.27 7.95
C.V.5	078	Bræk-down of "company-wide budget into further categories		
		Not broken-down l category categories categories categories No response	10 19 20 17 19 3	11.36 21.59 22.73 19.32 21.59 3.41
C.V.5	079	Break-down of "company-wide" budget into different geographic regions		
		Not carried out Carried out No response	50 35 3	56.82 39.77 3.41

	*			16
Question Number	Variable Number	Description of "Variable"	No.of companies	% of companie
C.V.5	080	Break-down of "company-wide" budget for different factories within the company		**************************************
	1	Not carried out	35	39.77
		Carried out No response	5 0 3	56.82 3.41
C.V.5	081	For departments within factories		
	• •	Not carried out	34	38.64
		Carried out	51	57.91
	14	No response	3	3.41
C.V.5	082	For "service" departments		
1		Not carried out	36	40.19
		Carried out	49	55.68
	<u> </u>	No response	3	3.41
		D. THE CONTROL SYSTEM AND PROCESS		
D.1	083	No. of reports going to top management daily		
		No reports	50	56.82
		1 report	14	15.91
		2 reports	4	4.55
		3 reports	2	2.27
	•	4 reports	2	2-27
		5 reports	. 1	1.14
		No response	15	17.05
D-1	084	Top management reports - weekly		
		No reports	57	64.77
		1 report	11	12.50
		2 reports	3	3.41
		6 reports	1	1.14
		No response	16	18.18

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Question Number	Variable Number	Descript	ion of "	/ariable"	e e e e e e e e e e e e e e e e e e e		No.of companies	% of companie
D.1	085	Top management	reports	- monthly				
		No reports					10	11.36
		l report					21	23.86
		2 reports					5	5.68
		3 reports					5	5.68
		4 reports					7	7.95
		5 reports					7	7.95
		6 reports					2	2.27
		7 reports				. 1	3	3.41
		8 reports					1	1.14
	;	10 reports					2	2.27
		ll reports					2	2.27
		14 repo r ts			-	٠.	1	1.14
	1	L8 reports				•	1 -	1.14
	:	20 reports					2	2.27
	;	32 reports					1	1.14
	4	48 reports					1	1.14
		No repease					17	19.32
D. I	086	Top management	reports	<pre>- quarterly</pre>				
		No reports					32	36.36
		1 report					21	23.86
		2 reports					7	7.95
		3 reports					2	2.27
		4 reports					2	2.27
		5 reports					4	4.55
		7 reports					1	1.14
		l reports					1	1.14
		5 reports					2	2,27
•		.8 reports				•	1	1.14
	N	lo response					15	17.05
0.1	087	Top management	reports	- half-yearl	lу	í		
* *		No reports		1			41	46.59
		l report					17	19.32
		2 reports					6	6.82
		3 reports					3 1 2	3.41
		4 reports					1	1.14
		5 reports					2	2.27
		6 reports					1	1.14
		7 reports					1	1.14
		5 reports					1	1.14
	N	o response					15	17.05
	•							

Question Number	Variable Number	Description of "Variable"	No.of companies	% of companies
D• 1	088	Top management reports - Total	t .	
•		No reports	3	3.41
	et .	1 report	13	14.77
		2 reports	7	7.95
		3 reports	8	9.09
		4 reports	5	5.68
		5 reports	6	6.82
		7 reports	3	3.41
		8 reports	6	6.82
		10 reports	2	2.27
		11 reports	1	1.14
		13 reports	1	1.14
		14 reports	1	1.14
		15 reports	1	1.14
		16 reports	1	1.14
		17 reports	1	1.14
		18 reports	3	3.41
		24 reports	1	1.14
		27 reports	1	1.14
		30 reports	1	1.14
		35 reports	1	1.14
		46 reports	1	1.14
		54 reports	1	1.14
		60 reports	1	1.14
		No response	19	21.59
D.1	089	Executive Management reports - daily		,
		No reports	36	40.91
		1 report	22	25.00
	-	2 reports	4	4.55
		3 reports	4	4 .5 5
		4 reports	1	1.14
		5 reports	4	4 .5 5
		7 reports	1	1.14
		ll reports	1	1.14
		No response	15	17.05

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Question Number	n Variable Number	Description of "Variable"		No.of companies	% of companie
D.1	090	Axecutive Management reports - weekly		elan.	
		No reports		41	46.59
		1 report	3	12	13.64
		2 reports		9	10.23
		3 reports		2	2 .27
		4 reports		2	2.27
		5 reports		3	3.41
		& reports		2	2.27
	:	29 reports		1	1.14
		No response		16	18.18
D. 1	091			10	10+10
D• I	091	Executive management reports - monthly			
		No reports		7	7.95
		1 report		12	13.64
		2 reports		4	4.55
		3 reports		8	9.09
		4 reports		3	3.41
		5 reports		5	5.68
		6 reports		4	4.55
		7 reports			3.41
		8 reports		3 2	2.27
	1	O reports		6	6.82
	1	l reports		3	3.41
		2 reports		2	2.27
		5 reports		1	
		6 reports	• .	2	1.14
		7 reports		2	2.27
		8 report			2.27
		O reports		1	1.14
		1 reports	•	2 1	2.27
		No response		20	1.14 22.73
D.1.	_	Executive management reports - quarterly	÷ 1		22070
			· • • • • • • • • • • • • • • • • • • •		
		No reports		38	43.18
		report		14	15.91
		2 reports 3 reports		6	6.82
				2	2.27
		reports		5	5.68
		reports		4	4.55
		reports		1	1 .1 4
		reports		1 .	1.14
		reports		1	1.14
		reports		1	1.14
	Į.	o response		15	17.05

Question Number	Variable Number	Description of "Variable"	: No.of companies	% of companies
D-1	093	Executive management reports - half-yearly		
		No monorate	43	48.86
		No reports	16	18.18
		1 report	4	4.55
		2 reports	1	1.14
		3 reports 4 reports	3	3.41
		5 reports	3	3.41
		6 reports	2	2.27
		10 reports	1	1.14
	•	No response	15	17.05
		10 Teabouse		
D.1	094	Executive management reports - Total		
-		No reports	3	3.41
		1 report	8	9.09
		2 reports	3	3.41
		3 reports	4	4.55
		4 reports	1	1.14
		5 reports	5	5.68
		6 reports	3	3.41
		7 reports	5	5.68
		8 reports	1	1.14 4.55
		10 reports	4	
		11 reports	1	1.14
		12 reports	2	2.27 1.14
		13 reports	1	7.95
		14 reports	7	2.27
		15 reports	2	5.68
		16 reports	5	3.41
		17 reports	3	2.27
		18 reports	2	1.14
		19 reports	1	1.14
		20 reports	1	1.14
		21 reports	1 ·1	2.27
		23 reports	2	
		25 reports	1	1.14 1.14
	•	26 reports	$\frac{1}{1}$	1.14
		27 reports	1	1.14
		35 reports	ī	1.14
		57 reports	i	1.14
		00 reports	17	19.32
		No response	7.	-,

Question Number	Variable Number	Descri	ption of "Variable"	No. of companies	% of companies
D.1	095	Operational	Management reports - daily	•	
		No reports		28	31.82
		l report		19	21.59
		2 reports		8	9.09
		3 reports		3	3.41
		4 reports		4	4.55
		5 reports		2	2.27
		6 reports		· 2	2.27
		8 reports		1	1.14
		9 reports		3	3.41
		13 reports		1	1.14
		15 reports		1	1.14
		17 reports		1	1.14
•	•	No response		15	17.05
D.1	096	Operational	Management reports - weekly	- - -	
•	·	Na mananaha		41	46.59
		No reports		14	15.91
		1 report		9	10.23
		2 reports 3 reports		2	2.27
		4 reports		1	1.14
		5 reports		2	2.27
		6 reports			2.27
		No response		17	19.32
D.1	097	Operational	Management reports - monthly		
		No reports		11	12.50
		1 report		14	15.91
		2 reports		7	7.95
		3 reports		9	10.23
	•	4 reports		. 6	6.82
	•	5 reports		3	3.41
	•	6 reports	÷	1	1.14
		7 reports		2	2.27
		8 reports		5 }	5.68
		10 reports		1 2 5 3	3.41
		11 reports		1 5 1	1.14
		12 reports		2 _	2.27
		14 reports		1	1.14
		15 reports	•	1	1.14
		17 reports		2.	2.27
		18 reports		1	1.14
		20 reports		1	1.14
		26 reports		1	1.14
		39 reports		1.	1.14
		No response		16	18.18
		•			

Question Number	Variab Number	e Description of "Va	riable"	No.of companies	% of companies
D-1	098	Operational Management repo	orts - quarterly		
		No reports		41	46.59
		1 report		15	17.05
		2 reports		5	5.68
		3 reports		1	1.14
		4 reports		4	4.55
		5 reports		5	5.6 8
		10 reports	•	1	1.14
		16 reports		1	1.14
		No response		15	17.05
D.1	099	Operational Management rep	ort - half-yearly		
		No reports		49	55.68
		1 report		15	17.05
		2 reports		3	3.41
		4 reports		1	1.14
		5 reports		2	2.27
	•	6 reports		1	1.14
		8 reports		1	1.14
		12 reports No response		1 15	1.14 17.05
D.1	100	Operational Management rep	orts - Total		
		No reports		4	4 .5 5
		1 report		8	9.09
		2 reports		6	6.82
		3 reports		4	4.55
		4 reports		4	4.55
		5 reports	·	6	6.82
		6 reports		4	4.55
		7 reports		2	2.27
		8 reports		3	3.41
		10 reports		4	4.55
		11 reports		2 5	2.27
		14 reports			5.68
		15 reports		2	2.27
		16 reports		1	1.14
		17 reports		1	1.14
		18 reports		1	1.14
		21 reports		2	2.27
		22 reports	•	1	1.14
		23 reports		1	1.14
		24 reports 25 reports		1	1.14
		27 reports		1	1.14
		29 reports		1 2	1.14
		SA TENOT OF		2	2.27

Question Number	Variable Description of "Va		o.of companies	% of compani
	20 manamba		•	•
	30 reports	•	1	1.1
	31 reports	•	1	1.
	43 reports	• •	1	1.
	49 reports		1	1.1
	63 reports		1	
	No response		17	19.3
D.2	101 Nature of report on sa			
	going to top managemen	t		
	No report		12	13.0
	Actuals only		13	14.
	Variance		58	65.9
	No response		5	5.
D. 2	102 <u>Sales</u> going to Executi	ve Management		
• •	No report		2	2.
	Actuals only		9	10.
	Variance		72	81.
	No response		5	5.0
D.2	103 <u>Sales</u> going to Operation	onal Management		
	No movement	-		_
	No report		8	9.0
	Actuals only Variance		12	13.
		• •	63	71.
. 1:	No response		5	5.4
D.2	O4 Variable costs of produmana gement	uction going to top		
	No ronant	•		
	No report Actuals only		33	37.
	V riance		3	3.4
	No refponse		47 5	53.4 5.6
D . 2	05 Production to executive	a management	J	J.,
•	•	,		
	No report		23	26.1
	Actuals only		3 E.I.I	3.4
	Variance		57	64.7
	No response		. 5	5.6
0.2]	06 <u>Production</u> to operation	al Management		
	No report	•	31	35.2
	Actuals only		5	5.6
	Va rianc e No response	÷.	47	53.4

			•		24
uestion Number	Variabl Number	.e Description of "Variable"		No.of companies	% of companies
D.2	107	Product line contribution to top management		-	
		No report		35	39.77
		Actuals only		4	4 .5 5
		Variance		43	48.86
		No response		6	6.82
D.2	108	Contribution to executive management			
		No report		29	32.95
		Actuals only		5	5.68
		Variance		48	54.55
	i	No response		6	6.82
0.2	109	Contribution to operational management			
		No report		42	47.73
		Actuals only		6	6.82
		Variance		34	38.64
		No response		6	6.82
0.2	110	Related Overhead (Activity-wise or product wise)			
		No report		37	42 .05
		Actuals only		4	4.55
		Variance		41	46.59
	e e	No response		6	6.82
0.2	111	Related overhead to executive management			•
		No report		23	26.14
		Actuals only		0 .	0 5, 27
		Variance		59 °	67.05
		No response		6	6.82
0.2	112	Related overhead to operational management			
	•	No report		31	35.23
		Actuals only		2	2.27
		Variance		49	55.68
		No response		6	6.82

Question Number	Variab Number		No.of companie
D.2	113	Service-department overheads (company-wide)	
	4-4-	going to top management	•
		No report	40
		Actuals only	2
		Variance	40
		No response	6
D.2	114	Service department overheads to	
		executive management	
•		No report	2 6
		Actuals only	0
		Variance	56
		No response	6
D. 2	115	Service department overheads going to operation management	nal
		No report	3 5
		Actuals only	1
		Variance	46
		No response	6
D.2	116	PBT/PAT going to top management	
	. 1	No report	4
		Actuals only	11
		Variance	67
		No response	6
D.2	117	PBT/PAT to executive management	
	2.5	No report	17
		Actuals only	5
		Variance	60
	•	No response	6
D•2	118	PBT/PAT to operational management	_
	118	PBT/PAT to operational management No report	46
	118	No report	2
	118		

				26
Question Number	Variable Number	Description of "Variable"	No.of companies	%-of companies
D.2	119	Quality, yield, efficiency, capacity utilization and similar non-financial items going to top management		
		No report	38	43.18
		Actuals only	6	6 .82
		Variance	38	43.18
		No response	, 6	6.82
D.2	120	Non-financial items to executive management		
•		No report	13	14.77
		Actuals only	13	14.77
		Variance	56	63.64 6.82
		No response	6	0.02
D.2	121	Non-financial items to operational management	e.	
	-	No report	14	15.91
		Actuals only	15	17.05
		Variance	53	60.23
	•	No response	6	6.82
D.2	122	Title of the executive administering the MCS		
		Controller	11	12.50
		Chief Accountant	9	10.23
		Other	62	70.45
		No response	6	6.82
D.2	123	Executive to whom the individual administering the M C S	·	
		Chief Executive	62	70.45
		Finance Director	8	9 .09
		Chief Accountant	. 2	2.27
		Other	10 %	11.36
		No response	,6	6.82
D.2	124	Frequency of reviews of actual versus expected performance		
		No such reviews	3	3.41
		Review after six months	6	6.82
		Reviewsevery quarter	21	23.86
		Review every month	55 3	62.50
		No response	3	3.41

Question Number	Variabl Number		No.of companies	% of companies
D. 6	125	Number of days after the end of each period (within the budget year) for which reports are generated, within which the sales report is generated.		
		Within 5 days	32	36.36
		Within 10 days	29 15	32.95
		Within 15 days Within 'month	15 8	1 7. 05 9.09
		Within 1 months	Ö	9.09
		Within 1 nonths	Õ	Ö
		Usually more than 2 months	ĭ	1.14
		No response	3	3.41
D.6	126	Number of days for the production report		
		Within 5 days	3 8	43.18
		Within 10 days	20	22.73
		Within 15 days	9	10.23
		Within 1 month	10	11.36
		Within 1½ months Within 2 months	2	2.27
		Usually more than 2 months	0 0	0
		No response	9	0 10.23
D, 6	127	Number of days for the overhead report	•	
		Within 5 days	3	3.41
		Within 10 days	6	6.82
		Within 15 days	27	30.68
		Within 1 month	36	40.91
		Within 12 months	4	4.55
		Within 2 months	3	3.41
•		Usually more than 2 months	2	2.27
		No response	7	7.95
D•6	128	Number of days for profit report	•	
•		Within 5 days	3	3.41
	•	Within 10 days	8	9.09
		Within 15 days	27	30.68
		Within 1 month	·35	39.77
		Within 1g months Within 2 months	4	4.55
		Usually more than 2 months	3	3.41
		No response	2 6	2 .2 7
		no response	Ö	6.82

				28
Question	Variabl	<u> </u>	No.of	% of
Number	Number	Description of "Variable"	companies	•
D.6	129	Number of days for non-financial indicators including environmental information.		
		Within 5 days	9	10.23
		Within 10 days	6	6.82
		Within 15 days	20	22.73
		Within 1 month	20	22.73
		Within 1 months	2	2.27
		Within 2 months	2	2.27
		Usually more than 2 months	ī	1.14
,		No response	28	31.82
.7	130	Means of preparation of the reports	í	
		Manual	41	46.59
		Punched cards	12	13.64
		EDP	31	35.23
		Other	2	2.27
		No response	2	2.27
.8 ,	131	Number of types of actions, if necessary after a review of performance		•
		No applicable	2	2.27
		No actions	2	2,27
		1 type of action	2 5	28.41
		2 types of actions	· 31	35.23
		3 types of actions	. 17	19.32
		4 types of actions	6	6.52
		5 types of actions	2	2.27
	-	No response	3	3.41
8.0	132	Modification of pricing policies or specific product prices after formal review of performance		
		Not undertaken	42	47.73
		Undertaken if necessary	42	47.73
		No response	4,	4.55
8.0	133	Undertaking of new sales promotion activities		
,		Not undertaken	32	36.36
		Undertaken if necessary	52	59.09
		No response	4	4.55

				29
Question Number	Variable Number	Description of "Variable"	No.of Companies	% of companies
D•8	134	Redeployment of resources such as men and money	`.	vê "
		Not undertaken Undertaken if necessary No response	35 49 4	39.77 55.68 4.55
D.8	135	Other actions	•	
		Not undertaken Undertaken if necessary No response	57 27 4	64.77 30.68 4.55
D . 9	136	Performance evaluation and reward/punishment of executives on the basis of variances from budgeted performance		
		Notapplicable on variances developed No evaluation on this basis Evaluation is dore on this basis No response	13 14 58 3	14.77 15.91 65.91 3.41
D.10	137	Number of professional staff engaged primarily in administering the M C S	-	
		No professional staff 1 to 3 professional staff 4 to 10 professional staff 11 to 25 professional staff No response	1 31 22 7 26	1.14 35.23 25.00 7.95 29.55
D•10	138	Number of clerical staff engaged primarily in administering the M C S		
		No clerical staff 1 to 5 clerical staff 6 to 10 clerical staff 11 to 20 clerical staff 21 to 50 clerical staff More than 100 No response	3 30 13 5 7 1 27	3.41 34.09 14.77 5.68 7.95 1.14 30.68

Question Number	Variable Number	Description of "Variable"	No.of companies	% of companies
D.10	139	Total number of professional and clerical staff engaged primarily in administering the M C S		,
		1 to 10 11 to 20 21 to 50	34 11 11	38.64 12.50 12.50
		51 to 100 More than 100 No response	4 1 28	4,55 1,14 31,82
0.11 °	140	Percentage of time spent by the Chief Executive in setting up the budget (300 days = 100% of C.E.'s time)		
		0-5% 6-10% 11-20% 21-35% More than 35%	47 21 3 0	53.41 23.86 3.41 0
,). 11	141	No response Percentage of time spent by the Chief	17	19.32
	141	Executive in performance evaluation based on the budget		
		0-5% 6-10% 11-20% 21-35% More than 35%	27 28 10 4 0	30.69 31.82 11.36 4.55
D . 12	142	No response	19	21.59
7.12	144	Not employed Employed No response	27 53 8	30.68 60.23 9.09
);13°	143	Basis on which "standard costs" were developed		
		Not applicable Industrial Engg. analysis Past performance Other Both industrial engineering and past	22 8 17 3	25.00 9.09 19.32 3.41
		performance No response	27 11	30.68 12.50

-	Variable	Description of "Variable"		vo.of	
Number	Number			ompanies	<u>companies</u>
D.14	144	Existence of "responsibility centres"	1.5	1 .	
		No responsibility centres Cost centres Profit centres Both cost and profit centres No response		13 35 6 30 4	14.77 39.77 6.82 34.09 4.55
D:15	145	Basis of transfer-prices		·** ₄	* <u>-</u> ,
		No applicable Based on market-value Based on standard cost plus a specified	fr	40 ¹ 6	45.45 6.82
		mark-up Negotiated by managers of concerned		9	10.23
		responsibility centres Other No response		8 18 7	9 .0 9 20.45 7 .95
D.16	146	Review of <u>non-financial</u> indicators of performance by the Chief Executive			
		Not carried out Carried out No response		17 63 8	19.32 71.59 9.09
		E. PROBLEMS EXPERIENCED			
E.1.a	147	The degree of difficulty experienced in collecting data relating to sales volume			
		1. Difficult to obtain 2 3 4 5 No problem No response		3 1 10 9 62 3	3.41 1.14 11.36 10.23 70.45 3.41
E.1.b:	14 6	Difficulty with regard to sales price			
		1 Difficult to obtain 2 3 4 5 No problem No response		2 1 7 12 61 5	2.27 1.14 7.95 13.64 69.32 5.68

			r	32
Question Number	Variable Number	Description of "Variable"	No.of companies	% of companies
E.I.c	149	Difficulty with regard to Production Volume		
	ŧ	1 Difficult to obtain 2 3 4 5 No problem No response	1 2 5 5 65 10	1.14 2.27 5.68 5.68 73.86 11.36
E.1.d.	150	Difficulty with regard to production costs		
·		1 Difficult to obtain 2 3 4 5 No problem No response	2 20 14 40 10	2.27 2.27 22.73 15.91 45.45 11.36
E.2.a	151	Problem caused by financial accounting system impeding the control system because financial accounting practice is based on company law practice		
		1 Serious problems 2 3 Average 4 5 No problem No response	2 0 33 11 37 5	2.27 0 37.50 12.50 42.05 5.68
E.2 b	152	Problem caused by financial accounting system impeding the control system because financial accounting demands an unnecessary degree of accuracy and hence causes delays		
		1 Serious problem 2 3 Average 4 5 No problem No response	1 4 28 15 35 5	1.14 4.55 31.82 17.05 39.77 5.68

Question Number	Variable Number	Description of "Variable"	No.of companies	% of companies
E.3.a	153	Implementation problem caused by <u>delays in</u> data <u>submission</u>		·
		1 Serious problem 2 3 Average 4 5 No problem	6 9 31 25 14	6.82 10.23 35.23 28.41 15.91
		No response	3	3.41
E.3.b	154	Implementation problem caused by lack of reliability of data	<i>(</i> -,	• • •
		1 Serious problem 2 3 Average 4 5 No problem No response	2 3 30 9 39 5	2.27 3.41 34.09 10.23 44.32 5.68
E.3.c.	155	Implementation problems caused by data being provided by several different sources		
		1 Serious problem 2 3 Average 4 5 No problem No response	3 8 28 26 18 5	3.41 9.09 31.82 29.55 20.45 5.68
E.3.d.	I56 -	Implementation problem caused by excessive time being required to obtain data of adequate accuracy		·
	3.	1 Serious problem 2 3 Average 4 5 No problem No response	2 3 28 25 26 4	2.27 3.41 31.82 28.41 29.55 4.55

Question Number	Variab Number	le Description of "Variable"	No.of companies	% of companies
E.3.e	157	Implementation problem caused by delay in availability of data caused by use of data of excessive accuracy	•.	.*
		l Serious problem	1	1.14
		2	4	4.55
		3 Average	2 2	25.00
		4	22	25.00
		5 No problem	± 33	37.50
		No response	6	6.82
E.3.f	158	Implementation problem caused by excessive time being required to compile and process the data		
		1 Serious problem		
		2	9	10.23
		3 Average	25	28.41
		4	24	27.27
	5	5 No problem	26	29.55
	·	No response	4	4.55
E.3.g	159	Implementation problems caused by changes from the assumptions made at the budget development time		
		1 Serious problem		0.07
		2	. 2 . 8	2.27
		3 Average	· 35	9.0 9 39.77
		4	18	20.45
		5 No problem	19	21.59
		No response	6 : •	6.82
5.3.h	160	Implementation problems caused by the periods for which variance reports are developed being too short to provide meaningful data		
	W	1 Serious problem	; O	O
		2	Ö	Ö
	• •	3 Average	18	20.45
		5 No anables	12	13.64
		5 No problem	53	60.23
		No response	5	5.68

Question Number	Variab Number	le Description of "Variable"	No.of companies	% of companies
E-3.i	161	Implementation problems caused by the authorities and responsibilities of individuals not being defined with adequate clarity		
		1 Serious problem 2 3 Average 4 5 No problem No response	6 5 23 9 40 5	6.82 5.68 26.14 10.23 45.45 5.68
E.3.j	162	Implementation problems caused by the responsibility for variances being shared by more than one executive		
		1 Serious problem 2 3 Average 4 5 No problem No response	3 11 32 17 20 5	3.41 12.50 36.36 19.32 22.73 5.68
3.3.k	163	Implementation problem caused by the standards set in the budget being accepted by operational management		
		1 Serious problem 2 3 Average 4 5 No problem No response	0 0 18 11 51 8	0 0 20.45 12.50 57.95 9.09
.3.1	164	Implementation problem caused by differences of opinion regarding the controllability of the variances	·	
		1 Serious problem 2 3 Average 4 5 No problem No response	2 6 29 17 28 6	2.27 6.82 32.95 19.32 31.82 6.82

Vamiable		No.of	% of
Variable Number	Description of "Variable"		companies
	Implementation problem caused by differences between the company's objectives and the objectives of individual activities		
	1 Serious problem	<u>1</u> 3	1.14 3.41
	3 average	2 2	25.00 18.18
	5 No problem No response	40 6	45.45 6.82
166	Implementation problems caused by standards in budget being corsciously set at a higher level than are reasonably attainable		. •
	1 Serious problem 2	1 2	1.14 2.27
	3 Average 4	22 24	25.00 27.27
	5 No problem No response	33 6	37 . 50 6 . 82
167	Implementation problem caused by executives resenting the control system and viewing it as a curb on their innovative ideas		
	1 Serious problem	0	0 2.27
	3 Average	2 2	25.00 19.32
	5 No problem	42	47 .73 5.68
168	Implementation problem caused by the status of the administrator or the control system being inadequate	J	3733
	1 Serious problem	1	1.14 3.41
	3 Average	9	10.23
	4	7 61	7.95 69.32
	Number 165 166	Number Implementation problem caused by differences between the company's objectives and the objectives of individual activities 1 Serious problem 2	Number

				37
Question Number	Varia Numbe		No.of companie	% of s companies
E.3.q	169	Implementation problem caused by top management not providing adequate resources to effectively implement the control system		
		<pre>1 Serious problem 2 3 Average 4 5 No problem No response</pre>	0 2 12 9 60 5	0 2.27 13.64 10.23 68.18 5.68
E.3.r	170	Implementation problem caused by top management not paying adequate attention to the reports generated by the control system and not acting on the reports		
		1 Serious problem 2 3 Average 4 5 No problem No response	1 0 12 16 54 5	1.14 0 13.64 18.18 61.36 5.68
E.4.a.	171	The frequency of occurrence of variances which are the responsibility of both the production and purchase departments		
		<pre>1 Very frequently 2 3 Average 4 5 Rarely No response</pre>	6 8 32 15 13	6.18 9.09 36.36 17.05 14.77 15.91
E.4.b	172	The frequency of occurrence of variances which are the responsibility of both the Production and Personnel Departments		
		1 Very frequently 2 3 Average 4 5 Rarely No response	4 4 26 22 20 12	4.55 4.55 29.55 25.00 22.73 13.64

Question Number	Variabl Number	Description of "Variable"	No.of companies	% of companiés
E.4.c	173 _/	The frequency of occurrence of variances which are the responsibility of both the Production and Maintenance Departments		
		1 Very frequently	3	3.41
		2	_6	6.82
		3 Average	39	44.32
		5 Paralu	15	17.05
		5 Rarely No response	13 12	14.77 13.64
E.4.d	174	The frequency of occurrence of variances which are the responsibility of both the Production and Sales Departments		
		1 Very frequently	. 5	5.68
		2	12	13.64
		3 Average	31	35.23
		4	10	11.36
		5 Rarely	18	20.45
	٠.	No response	12	13.64
E.4.e	175	The frequency of occurrence of variances which are the responsibility of both the Sales and Personnel Departments	,	
		1 Very frequently	1	1.14
		2	0	0
		3 Average A	20	22.73
		5 Rarely	20 36	22.73
	·	No response	11	40.91 12.50
€.4, f	176	The frequency of occurrence of variance which are the responsibility of both the Sales and Finance Departments	•*	
		1 Very frequently	. 1	1.14
		2	⊹ ;3	3.41
		3 Average	16 2 5 34	18.18
		4	,25	28.41
		5 Rarely	34	38.64
		No response	9	10.23

Question Number	Variabl Number	e Description of "Variable"	No.of companies	% of companies
·		F. EFFECT IVENESS		
F.1.a	177	Respondent's understanding of top management assessment of the effectiveness of the contrasystem with regard to <u>Production</u>		· ·
		1 Very effective 2 3 Average 4 5 Not at all effective No response	25 16 20 7 1	28.41 29.55 22.73 7.95 1.14 10.23
F.1.b	178	Effectiveness with regard to Sales		
		1 Very effective 2 3 Average 4 5 Not at all effective No response	25 29 26 3 0 5	28.41 32.95 29.55 3.41 0 5.68
F.1.c	179	Effectiveness with regard to overhead		
		1 Vory effective 2 3 Average 4 5 Not at all effective No response	17 22 32 9 3 5	19.32 25.00 36.36 10.23 3.41 5.68
F.1.d.	1,80	Effectiveness with regard to costs		
		<pre>1 Very effective 2 3 Average 4 5 Not at all effective No response</pre>	22 22 28 9 1 6	25.00 25.00 31.82 10.23 1.14 6.82

Question Number	Variable Number	Description of "Variable"	lo.of companies	% of companies
F.1.e	181	Effectiveness with regard to profit		
and the second		1 Very effective 2 3 Average 4 5 Not at all effective No response	29 24 19 7 2 7	32.95 27.27 21.59 7.95 2.27 7.95
F.1.f.	182	Effectiveness with regard to overall corporate performance		
		<pre>1 Very effective 2 3 Average 4 5 Not at all effectiv No response</pre>	22 30 22 7 1 6	25.00 34.09 25.00 7.95 1.14 6.82

ANNEXURE II

FREQUENCY DITRIBUTION OF VARIABLES
IN THE COMPUTERIZED DATA BANK

(obtained from Questionnaire
Data)

FREQUENCY DISTRIBUTIONS OF VARIABLES IN THE COMPUTERIZED DATA BANK ON MANAGEMENT CONTROL SYSTEMS.

Number Nil	Number	Description of "Variable"		COMPANIAS
Nil			<u>companies</u>	companies
	001	Questionnaire number		
·		A. COMPANY CHARACTER ISTICS		
A.1	002	Number of employees	•	
		500 or less	7	7.95
		501 to 1000	8	9 .09
		1001 to 3000	29	32.95
		3001 to 5000	14	15.91
		Over 5000	25	28.41
٠	•	No response	5	5.68
A.2	003	Extent of vertical integration		1,,
		Only I activity	30	34.09
		2 activities	22	25.00
		3 activities	17	19.32
		4 activities	15	17.05
		5 activities	2	2.27
		6 activities	2	2.27
٠.		No response	ō	0
A.3	004	Number of production locations		
		Only 1 location	3 6	40.91
		2 to 3 locations	20	22.73
		4 to 5 locations	11	12.50
		More than 5 locations	18	20.45
		No production activity	2	2.27
		No response	ī	1.14
A.4	005	Number of product lines		
* 7		1. product line	14	15.91
		2 to 3 product lines	23	26.14
		4 to 5 product lines	10	11.36
		More than 5 product lines	35	39.77
		No response	• 6	6.82

				2
Question Number	Varia: Number		No. of companies	% of companie
A.5	006	Number of customers		
		100 or less	12	13.64
		101 to 500	9	10.23
		501 to 3000	21	23.86
		3001 to 10,000	15	17.05
			15	17.05
		'ver 10,000	16	18.18
		No response	10	10*10
A.6	007	Number of different types of customers		
		Only 1 type	18	20.45
		(Govt./Industrial/Consumer)		
		2 types	2 '9	32.95
		3 types	25	28.41
		No response	16	18.18
A.6	800	Primary type of customer		
*		More than 75% to Govt.	0	(
		More than 75% of sales to industry	19	21.09
		More than 75% of sales to consumers	28	31.82
		No primary customer	25	28.41
		No response	16	18.18
A.6	009	Primary type of product		
		More than 75% of the products are capital/		•
		durable goods	15	17.05
		More than 75% of products are consumables	49	55.68
		No primary product	7	7.96
		No response	17	19.32
A.7.a	010	Dependence on sub contracts		
		Scale with 1 = very dependent	4	4.55
		2 =	8	9.09
		3 = average	15	17.05
		4 =	22	25.00
		5 = Not at all dependent	34	38.64
		and No response	5	568

CORRELATION BETTERN MEASURES OF EFFECTIVENESS, AMD DESIGN FEATURES AND INFLEMENTATION PROBLEMS.

VARIABLE 162: Effectiveness with regard to Overall Corporate Performance

SI. No.	Varia No.	ble Description	Level of Signifi- cance	Equare	Contingency Coefficient	
ì	2.	Number of employees	ř.S.			
2.	4	Number of production locations	Ŋ. S.			
3.	5	Number of product lines	N. S.			
4.	9	Srimary type of product	N. S.			
5.	11	Availability of raw material	s N. S.			
6	13	Involvement of Board of Directors	y. s.			
	14	Fercentage equity held by foreign interests	N. S.			
દ .	16	Selected parameters of objectives	M. S.			
9.	72	Extent of participation in budget development	N. S.			
1 ^{(*} •	73 、	Frequency of reviews with intent to revise the budget	N. S.			
11.	74	Reasons for budget revisions	5%	11 C359	.35C1C3	4
12.	14C	Percentage of time spent by the Chief Executive in setting up the budget	N. S.			
13•. ^	141	Percentage of time spent by the Chief Executive in performance evaluation based on the budget	N. S.			
14•	153	Implementation problems caused by delays in data submission	5%	1(.1(54	.331234	4

SI. No.	Variable No.	Description	Level of Signi- ficance	Square	Contingency Coefficient	
15	154	Implementation problem caused by lack of relia- bility of data	1%	13.6974	.3826C2	4 ,
16	155	Implementation problem caused by data being provided by several different sources	M. S.			·
17	156	Implementation problem caused by execessive time being required to obtain data of adequate accuracy	1%	13.8179	.361747	4 ·
18	157	Implementation problem caused by delay in availability of data caused by use of data of excessive accuracy	1%	19.6167	.443759	4
19	158	Implementation problem caused by excessive time being required to compile and process the data	16%	£.34835	•3C 39 7 7	4
2 C	159	Implementation problem caused by changes from the assumptions made at the budget development time	. 5%	16.8162	.345137	4
21	160	Implementation problems caused by the periods for which variance reports are developed being too short to provide meaningful data	5%	.11.C(76)	345 887	4 . 4
22	161	Implementation problems caused by the authorities and responsibilities of individuals not being defined with adequate				,
		clarity	1%	15.1(82	.396485	4

9)	#Ariab	Description Description	Level	Chi-	Contingency	
No.	No.	***************************************	of Signi- ficance	Square		
23	162	Implementation problems caused by the responsibility for variances being shared by more than one executive	N S.			-•
24	163	Implementation problem caused by the standards set in the budget not being accepted by operational management	10%	& , 43465	.189116	,
25	164	Implementation problem caused by differences of opinion regarding the controllability of the variances	10%	9.53946	.3264C3	
26	165	Implementation problem caused by differences between the company's objectives and the objectives of individual activities	5%	11.(427	•348269	
27	166	Implementation problems caused by standards in budget being consciously set at a higher level than are reasonably attainable	N. S.	,		
2 &	167	Implementation problem caused by executives resenting the control system and viewing it as a curb on their innova- tive ideas	17	14.2935	.387292	
29	168	Implementation problem caused by the status of the administra- tor of the control system being inadequate	1%	18.536	.436415	
30	169	Implementation problem caused by top management not provi- ding adequate resources to effectively implement the control system	1%	14-1118	.385189	
31	17 C	Implementation problem caused by top management not paying adequate attention to the re- ports generated by the control system and not acting on the reports	5%	11.6312	• .354352	

VARIABLE 181: Effectiveness with regard to Profit

S1.	Varial No.	ole Description	Level Chi: Contingency Degrees of Square Coefficient of Signi- Freedom ficance
. 1	2	Number of employees	N. S.
2.	4	Number of production locations	N. S.
3.	5	Number of product lines	10% 11.1416 .353535 6
4.	9	Primary type of product	Na S.
5•	11	Availability of raw material	N. 3.
6.	13	Involvement of Board of Directors	N. S.
7.	14	Percentage of equity held by foreign interests	1(% 9.34201 .332811 4
8.	27	Who prepares the sales budget	
9.	3 C		sis N. S.
1C.	31	Competition as a basis	N. S.
11.	32	Econometric data as a basis	N. S.
12.	. 33	demands from existing and potenti	al N. S.
13.	. 37	Inventory levels as a factor	N. S.
14	3 &	Availability of raw materials as a factor	5% 6.2423 .278914 2
15	. 39		N. S.
16	. 43	Costs at which goods are to be produced as an item	1% 1C.5136 .350637 2
17	. 44	Variable costs as a category when specifying the costs of production	K. S.
18.	. 45	Departmental costs as a category	1C% 6.484C6 .285617 2
19	. 46	Non-routine costs as a category	N. S.
2 C	. 47	Fixed overhead as a category	N. S.

1.	Vari	able	Level	Chi-	Contingency	Degreeson
ю.	No	Les cription	of Eigni- ficance	Square	Coefficient	Freedom
1	48	"Contribution" or "margin" for products or product lines	N. S.			•
2	49	Development of "purchase price variances"	10%	7,90438	.31(656	4
3	5 0	Identification of "standards", in production budget, for materials consumption	M. S.	·		
4	61	Whether PAT/PBT is budgeted for the company as a whole	. N. S.			
5	62	Periods into which the annual cash flow statement is broken u	p N. S.			
6	64	Credit terms given and level of A/c's receivable as a consideration				
7	65	Inventory levels as a consideration	N. S.			
3,	67	Credit terms received and level of accounts payable as a consideration	N. S.			
9	68	Bank facilities available, including secured loans as a co- sideration	n- N. S.			
С	7 C	Whether the company-wide budget is reviewed and if so by whom	N. S.			
	v	RIABLE 180: Effectiveness with	regard to (Costs		•
l. •	43	Costs at which goods are to be produced as an item	1%	1(.3247	.349914	2 1
	44	Variable costs as a category wh specifying the costs of product				
•	45	Departmental costs as a categor	y 10%	5 460 27	.2655€2	2
%' ***	5 C	Identification of "standards", production budget, for material consumption		·.		

VARIABLE 179: Effectiveness with regard to Overhead

Sl. No.	Varia No.	eble Description		Square	Contingency Coefficient	
1.	5.7	Existence of an overhead budget	12 -	9.30881	.326526	2
2.	5&	Categories into which overhead costs are separated	N. S.			
3.	59	Who develops the overhead budget	N. S.			
· ·	V	ARIABLE 178: Effectiveness with a	egard to	Sales	,	
1.	4	Number of product locations	N. S.			
2.	5	Number of product lines	N. S.	4 1		
3.	. 6	Number of customers	16%	14.(293	.413555	8
4.	8	Frimary type of customer	N. S.			
5.	9	Primary type of product	N. S.			•
6•	25	Easis on which the sales budget is prepared	M. S			
7.	26	Periods into which the sales budget is broken up	N. S.	•		
ε.	27	Who prepares the sales budget	1%	29,2401	.447 <u>1</u> 26	
9.	28	By whom the sales budget is reviewed before acceptance	N. S:			
1 C.	· 3C	Projections of past sales as basis for the sales budget	N. S.			
11.	31	Competition as a basis	N, S.			
12.	32	Econometric data as a basis	N. S.			
13.	33	Specific estimates of likely demands from existing and potential customers as a basis	N. 5.			
14.	57	Existence of an overhead budget	2% ,	8 .2 6238	3C94E7	2

VARIABLE 177: Effectiveness with regard to Production

SI. No.	Varia No.	Description	Level of Signi- ficance	Chi- Square	Contingency Coefficient	
1	4	Number of production locations	N. S.			
2.	5	Number of product lines	N. S.			
3.	11	Availability of raw materials	N. S.			
4.	35	Euageted sales as a factor in influencing the production budget	N. S.			
5•	37	Inventory levels as a factor	N. S.			
6.	38	Availability of raw materials as a factor	N. S.			
7.	39	Availability of finance as a factor	N. S.			
٤.	41	Delivery schedules as an item	N. S.			
9.	43	Costs at which goods are to be produced as an item	16%	4.9(138	. 24613 9	2
16 •	44	Variable costs as a category when specifying the costs of production	n N. S.			
11	49	Development of "purchase price variances"	N. S.			
12.	5 C	Identification of "standards", in production budget, for materials consumption	N. S.			
13.	53	Who develops the production budget	N. S.			
14.	54	Who reviews the production budget	M. S.			
15	56	Periods into which the production budget is broken up	n N. S.			

ANNEHURE III

DISTRIBUTION OF VARIABLES

CUTERIZED DATA BANK.

HISHED FINANCIAL STATEMENTS)

B. OBJECTIVES

1.	the start of a financial year? Please tick mark the boxes against objectives which apply to your company.	
	a. Profits (before or after tax) b. Return on investment c. Larnings (i.e., profit after tax) per share d. Growth in sales over the previous year e. Growth in market share over the previous year f. None of the above	()
2.	How many months prior to the start of the financial year are these objectives decided upon?	
3.	which of the following criteria do you consider when setting up the objectives for your company?	rese
	a. Not applicable. No objectives are developed b. Past performance of the company c. Political, social, and economic environment d. Likely actions and performance of competitors e. Strengths and weaknesses of the company f. The company's plans for capital projects g. The company's manpower recruitment and training plan	()
	G. THE BUDGETING PROCESS	
	te: If your company does not develop or employ budgets, please skip section of the questionnaire and move on to Section D. SAUS BUDGET	this
	Is your sales budget prepared on the following bases?	
	a. budgeted on a product line basis b. Budgeted on a geographic region-wise basis c. Budgeted only for the company as a whole	()
2.	Is the sales budget for the forthcoming budget year broken up int	0:
	a. Half-yearly periods?b. Quarterly periods?c. Monthly periods?d. Not broken up into periods of lass than a year	()
3.	Who prepares the sales budget?	
4	a. Sales manager b. Sales manager jointly with staff	()

: 4 :	
c. Sales manager jointly with production d. Sales manager jointly with production and purchase e. Any other (Please specify)	()
4. Is the sales budget prepared by the above reviewed before acce and if so by whom?	ptance,
 a. Not reviewed b. Reviewed by the sales director c. Reviewed by the sales director jointly with the controller/chief accountant d. Reviewed by the top management e. Reviewed by any other (Please specify) 	()
5. Which of the following considerations are taken into account whe veloping the sales budget?	nen de-
 a. Projections of past sales b. Competition c. Econometric data d. Specific estimates of the likely demand from existing and potential customers e. Any other (Please specify)	<pre>() () ()</pre>
II. PRODUCTION BUDGET	
1. Do any of the following considerations explicitly influence the production budget?	e
 a. Budgeted sales b. Inventory levels c. Availability of raw materials d. Availability of finance 	()
2. Which of the following, if any, are explicitly identified in the budget document?	e.
 a. Quantity of production b. Dolivery schedules c. Quality of products d. Costs at which goods are to be produced 	() ()
3. Which of the following categories of costs are explicitly identing the costs of production?	ified
 a. Variable costs (i.e., costs which are proportionate to the level of production) b. Departmental costs (i.e., costs which do not vary with the 	()
layer of production, but which are clearly related to a particular department or product line) c. Non-routine costs (i.e., costs which occur at specific	()
points in time rather than continuously, such as special maintenance and spares)	()

	d. Fixed overhead (i.e., seets which are fixed and which are not directly reltable to a particular product line or department, but are applicable to several)
4.	Is the "contribution" or "margin" identified for individual products or product lines?
	a. Not identified b. Identified for product lines c. Identified for individual products ()
5.	are "purchase price variances" (difference between estimated purchase price and actual purchase price) calculated and allocated to the purchase department?
	a. Yes b. No. c. Calculated but not allocated to the purchase department ()
6.	Are "standards" for the following items identified in the budget document or elsewhere?
	a. Materials consumption b. Planned yield/waste c. Any other non-financial standards(Please specify)()
7.	Who develops the production budget?
	a. The production manager b. The production manager jointly with department neads reporting to him c. The production manager jointly with sales executives d. The production manager jointly with sales and purchase executives ()
8.	Who reviews the production budget?
	a. Production director b. Production director and controller/chief accountant c. Controller/chief accountant d. Top management e. Any other (Please specify) ()
9.	If the cumulative production schedules indicate that the actual production will not be the same as the budgeted production, is the budget
	a. Altered (i.e., revised) b. Retained in its original form

10.	Is the production budget for the forthcoming budget year broken	up into
	a. Half-yearly periods?b. Quarterly periods?c. Monthly periods?d. Not broken up into periods of less than a year	()
<u>III</u>	OVERHE D BUDGET	
1.	Is there an overhead budget for company-wide common services(su Accounting, Legal and Personnel) which are not related to produce sales levels?	ich is icti_n/
	a. Yes b. No	{}
Note	2: If your answer is "No" please skip the remaining questions in part and move on to the next part (i.e., Part IV).	this
2.	Are these overheads separated into any of the following categor	ies?
	 a. Discretionary costs(costs like advertisement that are period usually annually, reviewed by top management, and whose magn is a judgmental decision on the part of top management) b. Committed costs (costs like depreciation which are "sunk" an are not amenable to change by management) c. Neither of the above 	itude (
3.	Who develops this "overhead budget"?	
	a. Controller/chief accountant b. Heads of sales, production, and service departments jointly c. any other (Please specify)	()
4.	Is this overhead budget reviewed, and if so by whom?	
	a. Not reviewed b. Reviewed by the controller/chief accountant c. Reviewed by the top management d. Any other (Please specify)	{
IV.	COMPANY_WIDE BUDGET	
1.	Is profit(before or after tax) budgeted for the company as a who	le?
	a. Yes b. No	
2.	Into what periods is the annual cash flow statement broken up?	,
	a. Not applicable. No annual cash flow statement is developed. b. The annual cash flow statement is not broken into shorter	()
	time periods c. The annual cash-flow statement is broken up into half yearly	()
	periods	()

	d. Into quarterly periods e. Into monthly periods f. any other (Please specify) ()
3.	which of the following considerations are explicitly taken into account when budgeting working capital requirements?
	a. Not applicable, working capital is not explicitly budgeted b. Credit terms given and level of accounts receivable c. Inventory levels d. Marketable securities, debentures, government securities, etc. e. Credit terms received and level of accounts payable f. Bank facilities available, including secured loans g. Dividend requirements h. None of the above
4.	Who reviews the company-wide budget before it is finalized?
	a. Not reviewed b. Board of directors c. Managing director d. any other (Please specify)
5.	Following the review of the company-wide budget, which of the following actions take place?
	a. Not applicable. No review is conducted b. Revisions are suggested by the reviewers, but need not be accepted c. The reviewers decide unilaterally the revisions needed ()
V. BI	UDGETING (GENERAL)
1.	To what extent do managers who have to implement the budget participate in the development of the budget?
	a. The budget is finalized without necessarily consulting the managers who are to implement it b. The budget is finalized only after obtaining the opinions of the managers who will implement it c. No budget is finalized without the willing acceptance of the managers who are to implement it (.)
2	Is there a formal understanding that the annual budget will be reviewed with the intent to revise it during the budget year, and if so at what frequency are such reviews expected to be conducted?
	a. No such revisions are planned for beforehand b. a budget review with the intent to revise it, if necessary, is scheduled six months after the annual budget comes into
	offect c. Reviews with the intent to revise the budget are scheduled every quarter ()

	· · · · ·		,
3.	Are unscheduled budget revisions carr reasons?		
	a. No. The annual budget is not revis		der ()
	b. The budget is revised if the actual certain percentage from budgeted p	erformance	()
	c. The budget is not revised if actual budgeted performance unless it is	due to drastic changes in 💎	
:	the economic, social, and political business developments clearly beyon	l environment or other major nd management control	()
4.	How many months ahead of the budget y		
	Lvent	No. of months before the buyear that the event takes	dget place
a.	Initiation of the budget development	<u>. 10</u>	
b.	Review prior to finalization of the "company-wide" budget		
c.	Finalization of the "company-wide" budget		
5.	Are budgets stated separately for any	of the following?	
	a. Different geographic regions		()
	b. Different factories within the com	pany .	()
	c. Departments within the factories d. "Service" departments, such as acc	ounting legal, and finance	::{: <u>}</u> .
	e. None of the above, only a company-	wide budget	(E)
	D. THE CONTROL SYSTEM	ND PROCESS	
1.	Please fill in the number of reports	each of the specified levels	of
	management get at various frequencies	•	
	vel of	Frequency	Total
. ——		onthly Quarterly Half-yearly	10641
Top	op management(board/ naging director)		, -
	recutive management		
	nananaging director/ notional directors)		
	perational management departmental heads)		
2.	sub-columns(a and b, which describe t	ypes of reports) to indicate	the
	type of report, if any, that goes to in columns I to III.	the levels of management des	cribid

		Top Mana		Execu rianag	tiva ement II	Operatio	
		(i.e., actuals only)	ted vs. actual (i.a., vari-	lute	ted vs.	te	ted vs. actual
	Item	A	ance)	a	b	a	b
1. So	les product line-wise						
	riable costs of produc- on	# T T T T T T T T T T T T T T T T T T T	, ,				
3. Pr	oduct line contribution						
	lated overhead(activity- se or product-wise)						
_	rvice department(overheads						
6. Pr	ofit(before or after tax)					d p - an trae ra	
ca	ality, yield, efficiency, pacity utilization, and milar non-financial items	·					
3. Pl	ease state the title of the col systems.	he execut	ive admin	iste r i	ng the m	anagement	con-
1. To	which of the following do	es he re	port?			,	
b.	Chief executive (presider Finance director Chief accountant Any other (Please specify		aging dir	octor)	<u>.</u>	() () ()	
сс а. b.	e formal reviews of the conducted during the budget No. No formal reviews are A review is conducted six Reviews are conducted even	year? conduct months ery quart	o.d				nance
		. :					

6. Please indicate within how many days, after the end of each period (within the budget year) for which reports are generated, are the following reports usually ready?

							4.5	
			,	Time	taken t	o prepar	e reports	3
	Reports	5 days after the com pletion of the	after -the com- pletion	15 days after -the comple- tion of	after the com- plation	ths of- ter the comple- tion of the	ths af- ter the comple- tion of the pe-	Usually after more than two months
Sa	les	 	-	per rou_		period	F10d	
Pr	oduction			-		· · · · · · · · · · · · · · · · · · ·		<u> </u>
• Ov	erhead							
Pr	ofits						Α1	
in cl	n-financial licators,in- uding environtal informa	n-						
7.	How are th	iese repor	ts prepa	urad?				
	a. Manuall b. With pu c. With el d. Any oth	inched car ectronic	data pro	cessing	equipmen	t		() () ()
8.	Please ind after a re	icate whi	ch of th erforman	e follow ce for a	ing acti	ons are	taken, if	necassary,
	a. Not app b. No acti c. Pricing d. New sal e. Redeplo f. Any other	licable. I on is usu policies es promot yment of i	No revie ally tak or spection actives resources	w takes en or re ific pro- vities a s, such	place commende duct pri re under	d ces are i taken		() () () ()
9.	Are execut:	ives evaluis of the	nated and reports	d suitab compari	ly reward	ded, or	are they	pulled up, budgeted

performance?

	a Wat conlinable We such werest-	ama datta la mad	· , ,
	a. Not applicable. No such reportsb. Noc. Yes	are developed	()
10.	Please indicate the number of the two are engaged primarily in administration.	two entegories of personnal spe istering the management control	e cifi ed L
	· ·	Number	
	Professional staff		
	Clerical staff		
	Total		
11.	How much of the chief executive's t described below?	time is spent on the activities	i
	the budget(e.g., if he spends 30 in would be 10%) b. Percentage of time spent by the performance evaluation based on	chief executive in	_% _%
12.	Does your cost accounting system em	ploy "standard costs"?	
	a. Yes b. No		()
13.	On what basis were these standard c	osts developed?	
-	a. Not applicable. Standard costs h b. Industrial engineering based and c. Past performance d. any other (Please specify)	ave not been developed lysis	()
14.	Is the concept of "responsibility co (You may tick mark both (a) and (b)	entres" employed in your comparing both hold true.)	n y?
	a. Cost centres(i.e., a distinct grament or a department in the charresponsible for holding costs with Profit centres(i.e., a division of a specified manager who is he objectives) are employed c. The responsibility centre concept	ge of a specified manager who is thin budgeted limits) are emplo or subsidiary unit in the charg ld responsible for meeting prof	is oyed() se

		: 12:	
15.	How are intra-composited :	any transfers of products bet for?	ween responsibility
	product c. The transfer prospectified mark-to transfer proceed response. Any other (Please	ice is negotiated by the mana asibility centres se specify)	() st plus a () gers of the () ()
16.		e three most important non-fill lewed by your chief executive	
	such as profits b. The three most i formance(such as	Only financial indicators of and sales are reviewed mportant non-financial indicators constants and many constoppages) are:	ators of per-
	I. II. III.	E. PROBLEMS EXPERIENCED.	
	Please indicate the data relating to th	degree of difficulty experie	nced in collecting
	a. Sales volume		
	1		
1	Difficult to obtain. Cause of considerable problems in administering the control system	3 4 Same degree of dif- ficulty as experi- enced in most other companies I know	No problem experi- enced in collecting these data
	Difficult to obtain. Cause of considerable problems in administering the	Same degree of dif- ficulty as experi- enced in most other	No problem experi- enced in collecting
	Difficult to obtain. Cause of considerable problems in administering the control system	Same degree of dif- ficulty as experi- enced in most other	No problem experi- enced in collecting

1	·	<u> </u>	1		t			
1	,	2	3		4			5
Cau	se of cor blems in	o obtain. nsiderable administer- trol system.	Same degree as experie companies	nced in mo	iculty ost other	per co	oroble rienced llectin ta	in
		• •		. •	. **			
c.	Production	on costs		•				
•				<u> </u>				<u> </u>
5		4		3	2			1
No	problem e	experi-	Same deg		• •		cult to	
end	ed in co.	llecting	difficul		•		Cause o	
the	e data		experien		-		able or	
			most oth				ministe ontrol	
		•	pan i es I	Know.		mie c	OHOLOR	, J
of the	the follow adjacen The fination of suite	t scale. ncial account to the re	ounting systems? Please in nting practice equirements o	e is base f the con	e degree d on comp trol syst	any law	practi	ı Opr
of the	the follow adjacen The fination of suite	t scale. ncial account to the re	ns? Please in	e is base f the con	e degree d on comp trol syst)	any law	practi	ı op
of the	the follow adjacen The fination of suite	t scale. ncial account to the re	ns? Please in nting practic equirements o	e is base f the con	e degree d on comp trol syst)	any law	practi	ces
of the	the followadjacen The fination suit bookings 1	t scale. ncial account to the reare made to	ns? Please in nting practic equirements of the till bills are	e is base of the con received	e degree d on comp trol syst)	any law en (e.g	practi	ces
of the	the follow adjacen The fination of suite	t scale. ncial account to the reare made to	ns? Please in nting practic equirements of the till bills are	e is based f the concered	e degree d on comp trol syst)	any law en (e.g	practi	ces
of the	the followed adjacen. The final not suit bookings 1 Serious The final is not n	t scale. ncial account are made to the representation of the repr	ns? Please in nting practic equirements of the till bills are	e is based f the congreceived is a probest other conseque	d on comp trol syst) lem companies	any lawer (e.g	practi , no	tces t 5 oble
of the	the followed adjacen. The final not suit bookings 1 Serious The final is not n	t scale. ncial account are made to the representation of the repr	nting practice equirements of the control and	e is based f the congreceived is a probest other conseque	d on comp trol syst) lem companies	any lawer (e.g	practi , no	tces t 5 oble
of the	the followed adjacen. The final not suit bookings 1 Serious The final is not n	t scale. ncial account are made to the representation of the repr	nting practice equirements of the control and	e is based f the congreceived is a probest other conseque	d on comp trol syst) lem companies	any lawer (e.g	practi , no	tces t 5 oble
of the	the followed adjacen. The final not suit bookings 1 Serious The final is not n	t scale. ncial account are made to the representation of the repr	nting practice equirements of the control and	e is based for the confirmation of a problem	d on comp trol syst) lem companies a degree ently caus	any lawem (e.g	practi , no	t ces t 5 obles which y
of the a.	the followadjacen The finant suit bookings 1 Serious The finant is not	wing reasont scale. ncial account are made to the reare the descriptions.	nting practice equirements of all bills are as much as in monting practice control and control reposits	e is based for the confirmation of a problem	d on comp trol syst) lem companies a degree ently caus	any lawer (e.g	praction, no production productions	ices 5 ble whice
of the a. Pl. im	the followadjacen The finant suit bookings 1 Serious The finant is not	wing reasont scale. ncial account are made to the reare the descriptions.	nting practice equirements of ill bills are as much as in monting practice control and control reposition most of gree to which molementation	e is based for the confirmation of a problem	d on comp trol syst) lem companies a degree ently caus	any lawer (e.g	praction, no production productions	ices 5 ble whice
of the a. Pl. im	the followadjacen The finant suit bookings 1 Serious The finant is not	t scale. ncial account are made to the reare made to the developing to the reare the deflective in the scale of the developing to the reare the deflective in the scale of the developing to the reare th	nting practice equirements of ill bills are as much as in monting practice control and control reposition most of gree to which molementation	e is based for the confirmation of a problem	d on comp trol syst) lem companies a degree ently caus	any lawer (e.g	praction, no production productions	t ces t 5 bles which y

b. Lack of reliability of data because executives whose performance is to be evaluated on the data are also responsible for developing the

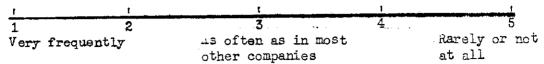
data.

		<u> </u>			
	5 No problem	4 As 88	much of a prob in other compa	2 olem onies	1 Serious pro- blem
	c. Data is pro- nation and	vided by sev consistency	eral different problems.	sources which o	auses co-ordi-
	<u> </u>	1	<u>t</u>		
	1 Serious proble		as in other co	and the second s	
	d. The time re	quired to ob	otain data of ad	lequate accuracy	7 is excessive
		4	3	2	1
	5 No problem	.	as much of a	oroblem ompanies	Serious pro- blem
		ilability s	ranged due to ti	ne use of data	of excessive
	accuracy	allapility .	, anser due so	1	*
	1	<u></u>			.5
	1 Serious problem	2	As much of a in other comp	problem as anies	No proble
	f. The time re	equired to c	ompile and proc	ess the data in	to the form
	f. The time re	equired to correct the repor	ompile and proc ts is excessive	1.	<u>, 11 . </u>
	f. The time re	or the repor	ompile and proc ts is excessive 3 As much of a prin other compan	t 2 oblem as	to the form I Serious problem
v	f. The time representation of the first time of	or the report 4 om the assumo sales volu	ts is excessive 3 as much of a pr in other compan	t 2 oblem as	Serious pro- blem
	f. The time representation of the required for the required for the relating to the relating t	or the report 4 om the assum o sales volu , overhead c	ts is excessive 3 As much of a pr in other compan ptions made at me, prices, raw osts, etc. 3 As much of a g in other compa	oblem as ies the budget deve material consu	Serious pro- blem logment time mption, pro- t 4 5
	f. The time representation of the period	or the report 4 om the assum sales volu overhead c 2 oblem s (within the	ts is excessive 3 As much of a pr in other compan ptions made at me, prices, raw osts, etc. 3 As much of a g in other compa	oblem as ies the budget deve material consu	Serious problem logment time mption, pro-
	f. The time representation of the required for the required for the relations of the relati	or the report 4 om the assume sales volute, overhead continuous columns (within the are too short 4	ts is excessive 1 3 as much of a pr in other compan ptions made at me, prices, raw osts, etc. 3 as much of a g in other compa te budget year) t to provide me	oblem as ies the budget deve material consumptions oroblem as anies for which variationingful data	Serious problem lopment time mption, pro- t Mo problem ance reports are
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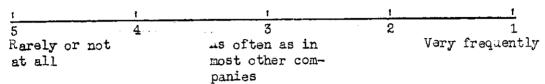
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e. The Sales and Personnel Departments

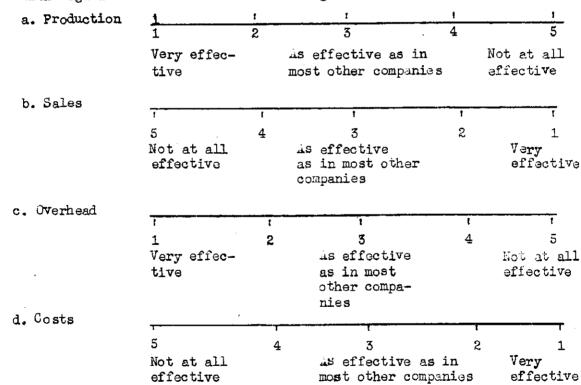


f. The Sales and the Finance Departments(e.g., promotional activities are not provided)



F. EFFECTIVENESS

1. On the scales given below please indicate your understanding of top management's assessment of the effectiveness of the control system with regard to the items mentioned alongside the scales.



e. Profit	1	2	i 3	4		5
	Very effec- tive	in	effectiv most oth panies			at all ctive
f. Overall perform		5 Not at all effective	·	3 as effective as in most other compa- nies	2	t Very effec- tive

ANNEAURE IV

CORRELATION BETWEEN MEASURES OF EFFECTIVE MESS, AND DESIGN FEATURES AND INTLEMENTATION PROBLEMS

Variables Obtained from Published Financial Statements.

Variable No.	e: Description	No. of companies	% of compa- nies
183	Sales		
100	38169		•
	Less than or equal to 50 million	14	15. 9 1
	More than 50 upto 100 million	14	15.91
	More than 100 upto 250 million	18	20.45
	More than 250 upto 500 million	15	15.18
	More than 500 million	12	13.64
	Erivate Limited Companies	14	15.91
184	Gross Assets		-
	Less than or equal to 50 million	26	29.55
	More than 50 upto 100 million	13	14.77
	More than 100 upto 250 million	¹ 15	17.04
	More then 250 upto 500 million	g	16.23
	More than 50 upto 100 million	· 5	5.68
	More than 1000 million	6	6.82
٠.	Private Limited Companies	14	15.91
185	Average Gross Assets: Sales Ratio	· •_ ·	
			· · ·
	Less than or equal to 0.3	18	20.45
	More than C.3 upto C.6	15	ί7.C5
	More than (.6 upto 1.0	2C	22.73
	More than 1 upto 2	13	14.77
	More than 2	8	9.09
	Private Limited Companies	14	15.91
186	Funds Employed (Capital + retaine	<u>d</u>	
	earnings + long term loans)	la es	
	Less than or equal to 50 million	26	29.55
	More than 50 upto 100 million	13	14.77
	More than 100 upto 250 million	16	18.18
	More than 250 upto 500 million	9	10.23
	More than 500 upto 1000 million	.5	5.68
	More than 1000 million	5	5.68
	Private Limited Companies	14	15.91

Variable No.	Description	No. of companies	% of companies
187 . ~ ~:	Margin (Sales - Raw Material-supplies - power and fuel - repairs)		
•	Less than and equal to 100 million	45	51.14
	Hore than 100 upto 250 million	18	20.45
	More than 250 upto 500 million	6	6.82
	More than 500 upto 1000 million	2	2.27
	More than 1000 upto 1500 million	2	2 . 27
	More than 1500 million	. 1	1 - 14
 : .	Private Limited Companies	14	15.91
188	Compounded growth rate of profits after tax		
-	over the last three years.		
	Less than and equal to-5%	31	35.23
	More than-5% upto C%	ϵ	6.82
	More than 0% upto 5%	5	5.68
	More than 5% upto 10%	4	4.54
	More than 10% upto 25%	12	13.64
	More than 25%	16	18.18
	Private Limited companies	14	15.91
189	Compounded growth rate of sales over thelest		
	three years.		
•	Less than and equal to -5%	1	1.14
••	More than -5% upto C%	2	2.27
	Fore than C% upto 5%	13	14.77
	More than 5% upto 10%	18	20.45
	More than 10% upto 25%	29	32,95
	More than 25%	11	12.50
	Private Limited Companies	14	15.91

Variable	Description	No. of Companies	% of companies
190 -	Margin/Sales		
	Less than or equal to .25	3	9.09
	More than .25 upto .35	17	16.32
	More than .35 upto .45	19	21.50
	More than .45 upto .55	11	12.50
	More than .55 upto .65	ć	9.09
	More than .65	11	12.50
	Frivate Limited Companies	14	15.91
2 CC	Management Style		
	Subsidiary of a foreign company	17	12.5€
	Companies which were previously being	1,	: Z • J
	managed by foreign managing agency Companies which were previously being	11	12.50
	managed by Indian m naging agency houses	17	19.32
	Large Indian companies not belonging to	τ,	19.32
	any managing agency group	6	6. 82
	Indian companies with substantial financial	, G	0.02
	participation by the foreign collaborator	1.2	13.64
	Companies belonging to family business	1 <u>2</u> &	5.09
	Rublic Enterprise	17	
	-,	1,	19:32

To
Chairman (Research) IIMA
Technical Report
Title of the report
Name of the Author
Under which area do you like to be classified?
ABSTRACT (within 250 words)

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Signature of the Author

Date