CHAPTER FOUR DATA PRESENTATION AND ANALYSIS

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DATA PRESENTATION AND ANALYSIS

4.1 INTRODUCTION:

This Chapter deals with presentation, analysis and interpretation of the data, which is collected with the help of observation, survey, personal interviews and discussions with the employees, supervisors, managers and owners of the selected units.

The inferences have been drawn by classifying and tabulating the data, which runs as follows:

Table 1

Availability of Space, Tools and Equipment							
Space Tools	Yes	To some extent	No	Total	Percen- tage		
Yes	13	3	3	19	38		
To some extent	9	4	3	16	32		
No	4	4	7	15	30		
Total	26	11	13	50			
Percentage	52	22	26		100		

4.2 DATA PRESENTATION & ANALYSIS:

The above Table shows that out of 50 units surveyed, 52 per cent of the units have adequate space, 26 per cent units do not have adequate space while the remaining units have the space only to some extent to do the job. From the above Table, it is clear that 38 per cent engineering units have adequate tools and equipments and 30 per cent units do not have adequate tools and equipments; the remaining units have them to some extent to do the job.

Safety Environ.Factors	Yes	To some extent	No	Total	Percen- tage
Yes	11	3	3	17	34
To some extent	7	11	2	20	40
No	2	3	8	13	26
Total	20	17	13	50	
Percentage	40	34	26		100

Table 2 Safety Precautions and Environmental Factors

Table 2 indicates that out of 50 engineerings units, 40 per cent units have adequate safety precautions and 26 per cent units have no safety precautions and the remaining units have them to some extent.

Out of 50 engineering units, 34 per cent units have environmental factors such as air, light, etc., while 26 per cent units do not have environmental factors; the remaining units have them to some extent.

Facilities	Frequency	Percentage
Yes	13	26
To some extent	13	26
No	24	48
Total	50	100

Table 3 highlights that out of 50 engineering units surveyed, there are non-job related facilities such as parking lots, restrooms, etc., in 26 per cent units but 48 per cent units do not have any such facilities, while the remaining units have these facilities to some extent.

Information Work Rules	Yes	To some extent	No	Total	Percen- tage
Yes	11	4	4	19	38
To some extent	7	4	-	11	22
No	6	3	11	20	40
Total	24	11	15	50	
Percentage	48	22	30		100

<u>Table 4</u> Information and Work Rules to do the Job

The above table represents that in 48 per cent engineering units, the employees have adequate information to do their work effectively and in 30 per cent units, such

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<u>Table 3</u> Non-job Related Facilities an information is totally lacking, while in the remaining units, it is provided to some extent.

Out of the 50 engineering units surveyed, in 38 per cents units, the employees fully understand the work rules but in 40 per cent units, they do not. In the remaining 22 per cent units, the employees understand the work rules to some extent.

Table 5							
Employees	•	informed organizati		changes			

Kept informed	Frequency	Percentage
Yes	10	20
To some extent	7	14
No	33	66
Total	50	100

The above Table reflects that of the 50 units surveyed, in 20 per cent units, the employees are kept informed fully of the changes in the organization, while in 66 per cent units, they are denied this information. In the remaining, units such an information is given out only to some extent.

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Table 6

Assurance Fairness	Y¢s	To some extent	No	Total	Percen- tage
Yes	18	-	2	20	40
To some extent	-	-	-	-	-
No	17	-	13	30	60
Total	35	-	15	50	
Percentage	70	-	30		100

Assurance of Job and Fairness and Consistency in respect of Lay-offs

From the above Table, we find that in 70 per cent engineering units, employees are assured of job, but in the remaining units they are not.

In 40 per cent of the units, there is fairness and consistency in respect of layoffs, but in the remaining 60 per cent units, there is no fairness and consistency in this respect.

T	abl	le	7

Understanding of Layoff Procedure by Employees

Understanding of Procedures	Frequency	Percentage
Yes	12	24
To some extent	15	30
No	23	46
Total	50	100

The above Table cites that in 24 per cent

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engineering units, the employees understand the layoff procedures but in 46 per cent units, such an understanding is absent. In the remaining units, the employees understand the layoff procedures only to some extent.

Pressure		To some		T	Percen-
Work	Yes	extent	No	Total	tage
Yes	9	-	-	9	18
To some extent	2	2	3	7	14
No	5	7	22	34	68
Total	16	9	25	50	
Percentage	32	18	50		100

<u>Table 8</u> Unreasonable Pressure and Meaningless Work

Table 8 explains that in 32 per cent engineering units, out of 50 units surveyed, there is a pressure on employees for better performance and in 50% units, the employees do not have such a press. In the remaining units, the employees are subject to such pressure only to some extent.

In 18 per cent engineering units, the employees reported engaging into meaningless work to look busy to their supervisors and in 68 per cent units, they did not have to resort to such tactics. In the remaining 14% units, employees carried out such pretense only to some extent.

leamwork	and Help	to each oth	ier in J	ob Perform	lance
Team Help	Yes	To some extent	No	Total	Percen- tage
Yes	19	-	8	27	54
To some extent	4	-	6	10	20
No	. 	-	13	13	26
Total	23		27	50	
Percentage	46	-	54		100

Table 9								
mwork	and	Heln	to	aach	other	in	loh	Donforman

As per Table 9, in 46 per cent engineering units, the employees work as a team, but in the remaining 54 per cent units, the team spirit is lacking.

Out of 50 engineering units surveyed, in 54 per cent units, the employees help each other to perform the job, but in 26 per cent units, the employees are not so inclined. In the remaining units, such mutual help is offered only to some extent.

Well together	Frequency	Percentage	
Yes	24	48	
To some extent	9	18	
No	17	34	
Total	50	100	

<u>Table 10</u> People get along well together in the Organization

The survey indicates that in 48 per cent engineering units, out of 50, people get along well together in the organization, but in 34 per cent of the units, they could not get along well together. In the remaining units, they could get along with each other only to some extent.

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Training Needs	Frequency	Percentage
Yes	21	42
To some extent	14	28
No	15	30 '
Total	50	100

		Table	11	
Need	of	Training	to	Employees

From the above Table, it is noticed that in 42 per cent engineering units, the employees need more training to do the job and in 30 per cents units, the employees do not need the training. In the remaining 28 per cent units, the need for training was felt only to some extent.

Table 12 Training Facilities provided to Employees

Training Facilities	Frequency	Percentage	
Yes	15	30	
To some extent	10	20	
No	25	50	
Total	50	100	



As per survey, 30 per cent of the engineering units provide training facilities to their employees but 50 per cent units do not provide such facilities to their employees. In 20 per cent units, such facilities are available only to some extent.

Quantity		To some			Percen-
Quality	Yes	extent	No	Total	tage
Yes	7	1	2	10	20
To some extent	2	3	1	6	12
No	3		31	34	68
Total	12	4	34	50	
Percentage	24	8	68		100

Table 13

Employee encouragement to each other for improvement in quantity and quality of job

Table 12 indicates that in 24 per cent engineering units, the employees encourage each other to improve the quantity of job and in 68 per cent units, employees do not encourage each other. In the remaining, mutual encouragement practised only to a some extent.

In 20 per cent engineering units, out of the 50 engineering units surveyed, employees encourage each other to improve the quality of their job and in 68 per cent units, employees do not do so. In the remaining 12 per cent units, employees encourage each other only to some extent to improve the quality of the job.

Fair Goals	Yes	To some extent	No	Total	Percen- tage
Yes	7	-	-	7	14
To some extent	5	16	_	21	42
No	-	4	18	22	44
Total	12	20	18	50	
Percentage	24	40	36		100

		1	able 14		
Fair	Payment	and	Accomplishment	of	Goals

The above Table shows that out of 50 engineering units surveyed, in 24% units, employees are paid fairly as compared with others and 36 per cent units, they are not paid fairly. In the remaining 36 per cent, the degree of fairness is limited to only some extent.

In 14% engineering units, the employees can accomposh their goals, while in 42 per cent units, the goals are accomplished to some extent only. In the remaining 44 per cent units, the employees do not accomplish their goals.

	Ta	ble	15
Basis	for	Pay	Increases

Basis	Frequency	Percentage
Cost of living index	40	80
Efficiency	5	10
Both	5	10
Total	50	100

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It is clear from the above Table that in 80 per cent of the engineering units, the cost of living index is the base for pay increases while in 10 per cent units, efficiency is the base for pay increases. In the remaining units, both the cost of living index and efficiency are taken as the basis for pay increases.

Table 16

Basis for Advancement and Promotions

Basis	Frequency	Percentage
Merit	17	34
Seniority	33	66
Total	50	100

Out of the 50 engineering units surveyed, in 34 per cent engineering units, merit is the basis for pay increases and in 66 per cent units, seniority is the basis for pay increases.

Table 17

Acceptance of Pay increase by employees if fair and adequate

Acceptance	Frequency	Percentage
Yes	37	74
No	13	26
Total	50	100

The above Table represents that in 74 per cent engineering units, the employees accept pay increases if these are fair and adequate and in the remaining units, the employees do not accept such pay increases.

Retirement Insurance	Yes	To some extent	No	Total	Percen- tage
Yes	8	- ·	-	8	16
To some extent	-	-	-	-	-
No	12	-	30	42	84
Total	20	-	30	50	
Percentage	40	-	60		100

Table No.18					
Preparation	for retirement ar	nd assistance			
in	employees' insur-	ance			

Table 16 highlights that from 50 engineering units survyed, in 40 per cent engineering units, the organization assists the employees for preparation of retirement and in 60 per cent units no such assistance is extended to the employees.

In 16 per cent engineering units, the organization provides insurance cover to its employees, while in 84 per cent units, there were no insurance programmes for the employees.

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Vacation Policy Sick Leave	Yes	To some extent	No	Total	Percen- tage
Yes	12	6	6	24	48
To some extent	-	-	-	-	-
No	3	9	14	26	52
Total	15	15	20	50	
Percentage	30	30	40		100

Table 19							
Acceptable	Vacation	Policy	and	Sick	Leave		

It is noticed from the above Table that out of the 50 engineering units surveyed, 30 per cent units have good vacation policy while 40 per cent units do not have any kind of vacation policy. The remaining units' vacation policy is good only to some extent.

It is also clear from the above Table that in 48 per cent units, there are good sick leave programmes but the sick leave programme of the remaining units is not good.

Table 20

Understanding of organizational objectives and olicies by individuals and information to employees about financial status of the organization.

-	-	-	-
_	-	-	_
-	50	50	100
_	50	50	
-	100		100
		- 50	- 50 50

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The above Table represents that in all the 50 engineering units, i.e. 100 per cent, the objectives and policies of the organization are not understood by the individuals.

Also in all the 50 units, the employees do not know the financial status of the organization in which they are working.

Table 21; Personal Satisfaction of the Employees					
Satisfaction	Percentage				
Yes	7	14			
To some extent	21	42			
No	22	44			
Total	50	100			

It is seen from the above Table that, in 14 per cent units, the employees are able to gain personal satisfaction from doing their respective jobs, while the employees in 44 per cent units are unable to derive any satisfaction out of their jobs. In 42 per cent units, the employees could get personal satisfaction only to some extent.

contd. next page

Table 22

Own ideas Own pace	Yes	To some extent	Perce No	en- Total	Percen- tage
Yes	8	-	-	8	16
To some extent	5	1	-	6	12
No	8	6	22	36	72
Total	21	7	22	50	
Percentage	42	14	44		100

Freedom to employees to use own ideas and own pace on their job

The above Table represents that in 42 per cent engineering units, the employees are free to use their own ideas while performing their assigned jobs, but in 44 per cent units, the employees do not enjoy such freedom. In the remaining units, the employees have this type of freedom to a limited extent only.

In 16 per cent engineering units, out of the 50 units surveyed, the employees are allowed to set their own pace while doing the job, while this is not allowed in 72 per cent units. In the remaining units, the employees are allowed, to some extent, to set their pace of doing the job.

Table 23

New Skills Education	Yes	To some extent	No	Total	Percen- tage
Yes	18	3	15	36	72
No -	-	1	13	14	28
Total	18	4	28	50	
Percentage	36	8	56		100

New Skills on Present Job and Further Education to the Employees

As per Table 23, it is clear that in 36 per cent engineering units, the employees are able to learn new skills on the present job and in 56 per cent units, the employees are not able to learn the new skills on the job; while in the remaining 8% units, the employees are able to learn new skills to some extent.

In 72 per cent of the engineering units, out of the total 50 units surveyed, the employees can take further education while working in the organization, while it is not possible to do so in 28 per cent organizations.

Decisions Planning	Yes	To some extent	No	Total	Percen-
Yes	2	-	-	2	4
To some extent	11	4	-	15	30
Νο	9	4	20	33	66
Total	22	8	20	50	
Percentage	44	16	40		100

<u>Table 24</u> Employees involvement regarding decisions, planning and organizing their jobs

The above Table cites that out of 50 engineering units surveyed, in 44 per cent units, the employees are responsible for the decisions related to their jobs and in 40 per cent units, employees are not responsible. In the remaining units, the employees are held responsible for their decisions only to some extent.

In four per cent engineering units, the employees are responsible for planning and organizing their jobs and in 66 per cent units, they are not responsible for the same. In the remaining units, they are responsible only to some extent.

Table 25

Use of Employees Recommendations

Use	Frequency	Percentage
Yes	11	22
To some extent	17	34
No	22	44
Total	50	100

In 22 per cent units, the employees' recommendations are used in the decisions related to their jobs and in 34 per cent units, these recommendations are used only to some extent. In the remaining 44 per cent units, the employees' recommendations are totally ignored.

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Table 26

Interesting Time pass	Yes	To some extent	No	Total	Percen- tage
Yes	-	-	18	18	36
To some extent	2	-	5	7	14
No	16	9	-	25	50
Total	18	9	23	50	
Percentage	36	18	46		100

Employees find work interesting and time pass slowly.

Table no.24 explains that in 36 per cent engineering units, the employees find their work interesting and in 46 per cent units, they do not find it interesting. In the remaining 18 per cent units, they find it interesting only to some extent.

The above Table also clarifies that in 36 per cent engineering units, the employees time pass slowly and in 50 per cent units, it is not so. In the remaining units, passing of time slowly is possible only to some extent.

Employees' ideas used by the Supervisors						
Ideas	deas Frequency					
Yes	20	40				
To some extent	15	30				
No	15	30				
Total	50	100				

Table 27 Employees' ideas used by the Supervisors It is found from the above Table that out of 50 engineering units surveyed, in 40 per cent units, the supervisors like to obtain employees' ideas to improve their jobs; and in 30 per cent units, they do not like to do it. In the remaining units, the supervisors like to obtain the employees' ideas only to some extent.

Easy to talk Criticism	Yes	To some extent	No	Total	Percen- tage	-
Yes	6	-	-	6	12	
To some extent	4	-	-	4	8	
No	21	-	19	40	80	
Total	31	-	19	50		
Percentage	62	-	38		100	

Table 28 Supervisors easy to talk and freedom to employees to criticise supervisors

The survey indicates that in 62 per cent engineering units, the supervisor is easy to talk to, while in 38 per cent units, the supervisors are rather remote and not easy to talk to.

In 12 per cent engineering units, the employees can criticise their supervisors and in remaining 80 per cent units, the employees are not free to do so. In the remaining 8 per cent, such freedom is extended only to some extent.

Table 29

Instructions Information	Yes	To some extent	No	Total	Percen- tage
Yes	19	-	-	19	38
To some extent	3	13	1	17	34
No	-	-	14	14	28
Total	22	13	15	50	
Percentage	44	26	30		100

Clear instructions and information to employees by their Supervisors

As per Table 27, out of 50 engineering units, in 44 per cent units, the supervisors give clear instructions to the employees and in 30 per cent units, they do not give instructions clearly. In the remaining units, the supervisors give clear instructions only to some extent.

In 38 per cent units, supervisors give all the information to the employees to do the job well and in 28 per cent units, they do not give out such information. In the remaining units, they give information only to some extent.

onest answers by Supervisors to Employees					
Honest Answers	Frequency	Percentage			
Yes	36	72			
To some extent	-	-			
No	14	28			
Total	50	100			

<u>Table 30</u> Ionest answers by Supervisors to Employees

According to Table 30, it is found that in 72 per cent units, the supervisors give honest answers to the questions of the employees and 28 per cent units, however, honest answers are not forthcoming from the supervisors.

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Fair Dealings	Frequency	Percentage
Yes	23	46
To some extent	9	18
No	18	36
Total	50	100

Table 31							
Supervisors'	Fair	Dealings	with	Employees			

The above Table reflects that in 46 per cent engineering units, the supervisors are fair in dealings with the employees and in 18% units, the fairness is only upto some extent. In the remaining units, however, the supervisors are unfair in their dealings with the employees.

Table 32

Supervisor as an Effective Organizer and Evaluator of Employees' Work

Organizer Evaluator	Yes	To some extent	No	Total	Percen- tage
Yes	17	6	5	28	56
To some extent	-	4	4	8	16
No	-	-	14	14	28
Total	17	10	23	50	
Percentage	34	20	46		100

The above Table highlights that out of 50 engineering units surveyed, in 34 per cent engineering units,

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the supervisors are the effective organizers and in 46 per cent units, they are not so. In the remaining units, supervisors are effective organizers only to some extent.

In 56 per cent of the engineering units, the supervisors are able to evaluate the employees' work and in 28 per cent units, the supervisors are not able to do so. In the remaining 16 per cent units, the supervisors are able to evaluate the employees work only to some extent.

Table 33						
Training	in	Human	Relations	and	Technical	
Qualifications of Supervisors						

Human Relations Qualification	Yes	To some extent	No	Total	Percen- tage
Yes	13	14	8	35	70
To some extent		-	-		-
No .	-	3	12	15	30
Total	13	17	20	50	
Percentage	26	34 ·	40		100

Table 31 shows that in 26 per cent engineering units, out of the 50 engineering units surveyed, the supervisors are well trained in human relations, while in 40 per cent units, the degree of training is limited to only some extent. In the remaining 34 per cent units, the supervisors are not at all trained in human relations.

In 70 per cent engineering units, the supervisors

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hold technical qualifications while in the remaining 30 per cent units, they are not technically qualified.

Table 34

Outstanding	Job	Performance	expected
by	the	Supervisors	

Outstanding Job Performance	Frequency	Percentage
Yes	21	42
To some extent	10	20
No	19	38
Total	50	100

It is noticed from the above Table 34 that in 42 per cent engineering units, the supervisors expect outstanding job performance from the employees and in 20 per cent units, this expectation is limited to only some extent. In the remaining units, the supervisors do not expect outstanding job performance from the employees.

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Rewards to Employees by the Supervisors

Reward	Frequency	Percentage	
Yes	4	8	
To some extent	3	6	
No	43	86	
Total	50	100	

Table 35 reflects that in 8 per cent engineering units, out of the 50 units surveyed, supervisors reward the employeees who perform their job well and in 86 per cent units, the supervisors do not care to do so. In the remaining 6 per cent units, supervisors reward the employees only to some extent.

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