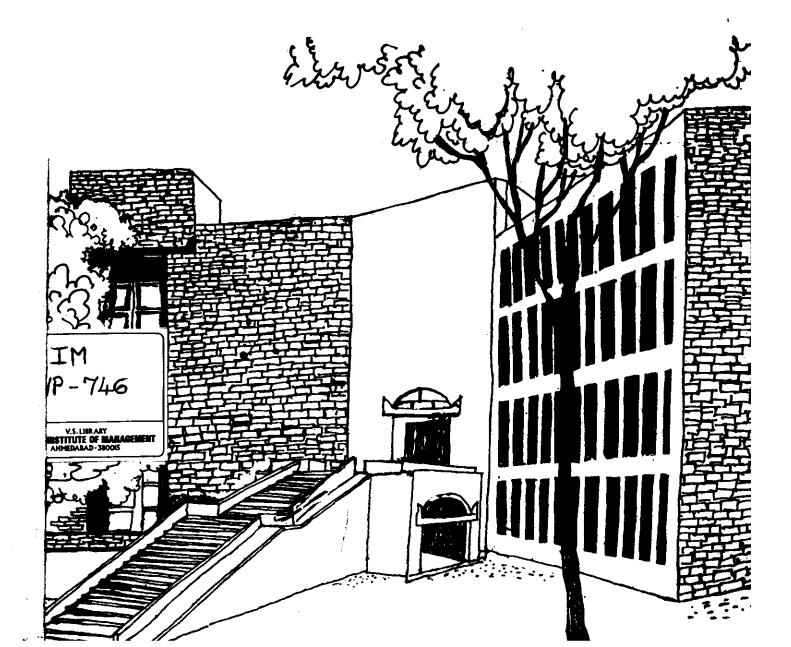


# Working Paper



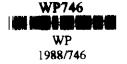
## DEVELOPMENT OF A PSYCHOMETRIC MEASURE OF LEARNED HELPLESSNESS (LH)

Ву

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## PREFACE

Behavioural sciences have constantly attempted to bring greater rigour in their measurements. Tests and instruments represent one such attempt. The aim of the present research is to evolve and develop a scientific tool for measurement of the 'learned helplessness' (LH) concept. The authors have taken into account such attributions as: internal—external, stable—unstable and global—specific. With the help of factor—analysis, eight factors have been extracted and a 24-item scale on LH has been standardised.

The authors have briefly reviewed some of the salient studies on the LH concept. Studies on human and infra-human subjects have been included in view of their relevance to the clarification of the concept.

The authors are happy to put on record the research assistance provided by G.P. Singh. He shared his time and talent with us.

We will also like to acknowledge the financial assistance provided by the Indian Institute of Management, whomedabad through the Research Committee for initiating this project. We hope, this present exercise will be useful to researchers and scholars who want to undertake studies on LH.

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May 12, 1988

#### ABSTRACT

Behavioural sciences have constantly attempted to bring greater rigour in their measurements. Tests and instruments represent one such attempt. The aim of the present research is to evolve and develop a scientific tool for measurement of the 'learned helplessness' (LH) concept. The authors have taken into account such attributions as: internal-external, stable-unstable, and global-specific. With the help of factor-analysis, eight factors have been extracted and a 24-item scale on LH has been standardised.

#### CHAPTER 1

#### INTRODUCT IO N

We frequently come across people who make such statements that they do not like many 'things' in the society, in their neighbourhood, in their organisations, in their jobs, and so on but they can not do anything to alter or eliminate those underirable 'things'. Underlying these statements is their feeling of uneasiness with the existing environmental conditions and their inability to change them for the better. Psychologists describle this phenomenon as "learned helplessness" (LH).

## 1.0 CONCEPT OF LEARNED HELPLESSNESS AND EARLY RESEARCHES

## 1.1 The Concept of Learned Helplessness (LH)

The learned helplessness (LH) is the cognitive state of a 'being' (an individual or an animal) which believes that whatever it does is not going to alter the outcome of an event. In other words, it comes to believe in response - outcome non-contingency. Stated differently, LH is the notion that after repeated failures at a task, an individual/animal becomes passive, and remains so even after the environment changes such that makes success possible. This concept of LH was first developed by Seligman and his colleagues (Seligman and Maier, 1967; Overmier and Seligman, 1967).

## 1.2 LH IN ANIMALS

The phenomenon of LH was first observed in animals by Seligman and Maier (1967), and Overmier and Seligman (1967). They observed that when the dog in an experiment was repeatedly exposed to inescapable electric

shocks, the dog discontinued efforts to escape from the shocks after some time, and remained so even after the situation was changed so that escape was possible. Overmier and Seligman (1967) suggested that the interference in the dog's escape response or lack of it was a "learned helplessness" state. Their explanation for the dog's passive behaviour was that during the experiment, the dog learned that the shocks were independent of its behaviour and this learning was transferred to new situations inhibiting escape responses in those altered situations. Later, occurence of this LH phenomenon was also reported in cats and fish(Paddilla et al. 1970), and rats (Braud et al. 1969).

## 1.3 LH IN HUMANS

More recently, researchers have documented the phenomenon of LH in humans (Hiroto, 1974; Hiroto and Seligman, 1975; Rodin, 1976). In early studies the human subjects were exposed to a "training task" in which they received treatments similar to those used in research on animals i.e., escape/ avoidance tasks (Kratz et al. 1974).

Later researchers replaced the simple escape/avoidance tasks with more complex ones such as anagram solutions (Hiroto and Seligman, 1975; Gatchel and Proctor, 1976), and cognitive problem solving tasks (Dwack and Bush, 1976; Diener and Dweck, 1978). In most of these studies, results obtained were similar to those observed in animals. The range and variety of tasks in which these studies documented LH in humans support Seligman's original notion (Overmier and Seligman, 1967) that LH is a fundamental type of

learning which leads to motivational, cognitive, and emotional deficiencies. Seligman (1973, 1974, 1975) had postulated that the major causal factor for the development of LH is the individual's belief or expectancy that his/her responses (actions) would not influence or alter the probability of an outcome (expectancy of response - outcome independence). According to Seligman (1975) development of LH follows the indivience of the probability of an outcomes to perceived or actual uncontrollable outcomes resulting in expectation that future outcomes would also be uncontrollable.

As research with humans progressed, a number of investigators had pointed out the inadequacies of original LH model of properly explain the phenomenon of LH in humans (Abramson et al 1978; Miller and Norman, 1979).

The first set of inadequacies related to the issue of individual differences, and the fact that there may be more than one type of human help-lessness. For example, how is it that individuals exposed to similar uncontrollable tasks often reach to quite different conclusions? The second set of inadequacies relate to the generality of helplessness across situations, and chronicity or persistence over time. That is, when and where helplessness will generalise once people believe they are helpless in one situation? Abramson et al (1978, 1980), and Miller and Norman (1979) had presented an attributional model of LH to resolve these problems.

## 1.4 ATTRIBUTIONAL MODEL OF LH

The attributional model of LH is presented in Figure 1. The model indicate that when an individual is repeatedly exposed to <u>perceived</u> or a<u>ctual</u> uncontrollable outcomes, he may tend to expect that future outcomes will also be uncontrollable, and hence become passive or inactive. Research on LH in

Figure 1: Attributional Model of Learned Helplessness

Antecendents of LH	Attributions	LH State	Consequences of I
Repeated exposure to perceived and/ or actual uncont- rollable outcomes.	Internal/external stable/unstable Global/specific etc.	Expectation that future outcomes are uncontrollable	Motivational, cognitive and emotional deficit

humans so far was concerned on manipulating antecedent conditions, assuming LH state would follow, and hance measuring only consequences of LH. As a result, large variations observed in the consequences of LH could not be properly explained. This requires measurement of attributions and resulting LH state. The present study mainly concentrates on these issues.

## 1.4.1 CAUSAL ANTECENDENTS

Even though Abramson et als(1978, 1980) attributional model of LH was silent on determinants of attributions people make for their expectancy of response outcome independence, attribution theorists (Kelly, 1967; Weiner, 1974, 1980) had discussioned about causal antecedants of attributions. Reviewing the LH literature, Miller (Norman (1979) had identified several situational cues that could influence the type of attributions people make. These antecedent conditions could be obtained by the individuals either through actual experience, or through vicarious learns

#### ATTRIBUTIONS

As indicated in Figure 1, people make several types of attributions for the success or failure on a task, and particularly for their experiences of response outcome non-contingency. Abramson et al (1978, 1980) used three attributional

dimensions: (i) internal-external, (ii) stable-unstable, and (iiì) global-specific.

## 1.4.2.1 ATTRIBUTIONS TO INTERNAL EXTERNAL CAUSES

Inter: plity is defined primarily in terms of a 'self-other' dichotomy. When individuals believe that outcomes are more likely or less likely to happen to themselves than to relevant others, they tend to attribute these outcomes to themselves i.e, internal factors. Conversely, when individuals believe that outcomes are as likely to happen to themselves as to relevant others, then they may make external attributions. Internal attributions of response - outcome non-contingency are likely to result in personal helplessness, whereas external attributions of response-out∞me non-contingency may result in universal helplessness (Abramson et al, 1980). Personal helplessness is characterised by the belief that an outcome is independent of one's own responses. On the other hand, universal helplessness is characterised by the belief that an outcome is independent of one's own responses as well as the responses of relevant others. Examples of internal attributions are one's effort level, skill, ability, etc. whereas attributions to task difficulty, luck, etc. represent external dimension.

#### ATTRIBUTIONS TO STABLE\_UNSTABLE CAUSES

In an attempt to explain the consistency of an expectation over time, attribution theorists (Weiner et al, 1971; Weiner, 1974) had introduced stable-unstable attributional dimension which is orthogonal to internal-external dimension. Stability refers to the relative performance associated with an attribution. That is, if an individual attributer response-outcome non-contingency to a stable factor, it may result in a helplessness

state which is likely to persist over a period of time but under similar conditions or situational cues. Examples of stable attributions could be one's ability, task difficulty, etc. Unstable attributions, on the other hand, may result in a helplessness state which may not last long. It will fade away quickly as time passes. Examples of unstable attributions are mood of the person, effort level, luck, etc.

## 4.2.3 ATTRIBUTIONS TO GLOBAL - SPECIFIC CAUSES

To account for generality of helplessness across tasks and situations, Abramson et al (1980), and Miller and Norman (1979) suggested a third dimension, namely global-specific attributions which is orthogonal to internality and stability dimensions. Attributions to global factors affect expectancy and hence performance in a wide variety of situations and tasks, whereas attributions to specific factors may result in help-lessness only in the original situation.

All the three dimensions of causal attributions described above are continuous rather than dichotomous. These three dimensions of attributions, namely, internal-external, stable-unstable, and global-specific can be grouped together in different combinations which will result in eight types of causal attributions. These are:

- 1. Internal-global-stable
- Internal-global-unstable
- Internal-specific-stable
- 4. Internal-specific-unstable
- External-global-stable
- 6. External-global-unstable
- 7. External-specific-stable
- 8. External-specific-unstable

Each of these combinations has a different implication for the future expectations of the people, and their performance on subsequent tasks.

\* \* \* \* \*

#### CHAPTER 2

## DEVELOPMENT OF THE LEARNED HELPLESSNESS SCALE

The type and extent of LH existing in different individuals can be determined only if we have a reliable scale to measure LH. Unfortunately, we do not have a good scale so far for this purpose.

An instrument on LH can be constructed in two ways. First, we can construct scales for measuring antecedents of LH, attributions, and nature of LH separately. But then, these should exhibit a relationship that is theoretically expected. In other words, a given type of antecedent, should have high correlations with the nature of attributions, and the nature of LH they are supposed to cause. These correlations should also remain stable across samples. Secondly, we can construct a LH instrument using scales that combine the antecedents, attributions and the LH. This type of measure is difficult to construct, but is likely to be more stable than the first one. We had adapted the second method.

## ) DEVELOPMENT OF LA SCALE

The three types of attributions, i.e., internal-external, stable-unstable and global-specific their antecedents and the resulting LH have already been discussed. These were taken up for developing a LH scale. Based on the authors' experience as well as review of literature on locus of control and attribution theory, and discussions with experts in organisational behaviour, 86 items were developed representing the three types of attributions along with their causes and consequences. These items were again

discussed with the experts in organisational behaviour to test the clarity and meaning of each item. These items were tested with 15 respondents, and a few items were modified in the light of the feedback received from these experts. The final instrument consisted of all the 86 items.

A six point rating scale format was used for obtaining the responses.

Strongly agree and strongly disagree were provided as anchorpoints on either end of the scale (for details, see Appendix I). The data were collected from 190 respondents in age range 23-39 years. Orthogonal factor analysis was performed on these data. Eight factors were extracted from this analysis. The details are given in Table 1. Out of the 86 items, 25 items had significant loadings (.40 or above) on the first eight factors. These are items at serial numbers 4,8,11,12,20, 26,28,33,37,41,43,45,48,49,50,54,55,56,57,61,62,67,74,85 and 86 in the questionnaire given in Appendix I. To test whether these factors are stable or not, we have again performed factor analysis on these 25 items. Except Factor VIII, all other factors were stable. These results are given in Table 2. The number of items in each factor are as follows:

No. of Items
6
4
2
3
3
2
2
2

Item 45 was eliminated from factor VIII, leaving a total of 24 items in eight factors.

The actual items loaded in each factor are given in Table 3. All these items were scored on a six point scale, a higher score indicating higher level of LH. The scores of items which are to be reversed are indicated by 'R' against the concerned items in Table 3. Factor I consisted of the undesirable aspects of one's job, a specific stimulus, and the attributions for these were generally made to the organisational culture, an external, stable stimuli. Therefore, this factor may be considered as that representing external-specific-stable attributions.

In factor III, there were two items. Both the items related to one's ability or lack of it to control the outcome of events that are likely to happen to him/her. Both these represent internal, global causes which are stable in nature. This factor may, therefore, be considered as that representing internal-global-stable attributions.

Factor IV had three items. All the three items were related to the undesirable elements in the culture of one's organisation, and his/ her inability to do anything about them. Therefore, we may consider this factor as that representing external-specific-unstable attributions.

In factor V also, there were three items. These items related to one's effort level, an internal, unstable cause, and the results that he/she gets. Therefore, this factor may be considered as that representing internal-global-unstable attributions.

Factor VI had only two items. Both the items were related to the lack of control over the events in general that are occurring around us. As

these represent general, stable and external attributions, we may consider this factor as that representing external-global-stable attributions.

Factor VII had two items. These related to one's ability to control or not able to control the outcome of a specific event like getting into an accident. Therefore, we may consider this factor as that representing internal-specific-stable attributions.

Factor VIII also had two items. Both the items related to the effort expended and the results obtained by people in general. Therefore, we may consider this factor as that representing external-global-unstable attributions. We got the following factors for LH Scale:

Factor I : Internal-specific-stable attributions

Factor II : Internal-specific-unstable attributions

Factor III : Internal-global-stable attributions

Factor IV : External-specific-unstable attributions

Factor V : Internal-global-unstable attributions

Factor VI : External-global-stable attributions

Factor VII : Internal-specific-stable attributions

Factor VIII : External-global-unstable attributions.

## 1 RELIABILITY OF LH SCALE:

Nunnally's (1967) reliability test was used to assess the reliability of each of the above eight measures. Nunnally's reliability coefficient, which is based on inter-item correlations was calculated by the following formula.

$$\mathbf{r}_{kk} = \frac{\mathbf{k} \cdot \mathbf{r}_{ij}}{1 + (k-1)\mathbf{r}_{ij}}$$

#### Where,

 $\mathbf{r}_{\nu\nu}$  = Reliability coefficient of the measure,

k = Number of items in the measure, and

r = Average inter-item correlations.

The reliability coefficients of the eight measures were as follows:

Factor	I	:	•75
Factor	II	•	.81
Factor	III	:	• 37
Factor	IV	:	•67
Factor	V	:	•57
Factor	VI	:	.13
Factor	VII	:	•39
Factor	VIII	<b>‡</b>	•46

Numnally (1967) suggested that measures used in exploratory studies should have a coefficient of 0.58 and above. In the present study, only factors I, II, IV and V have a reliability coefficient of .50 and above, while factor VI is very close to it. Others have much lower reliability coefficients.

Reliability of the items can also be tested by calculating inter-item correlations. The results of this analysis are given in table 4. As seen from the figures given in this table, all the items have fairly large correlations with total scores of the items included in that measures. These ranged from 0.56 to 0.75 in Factor I, 0.69 to 0.85 in Factor II, 0.51 to 0.72 in Factor I 0.71 to 0.82 in Factor IV, 0.30 to 0.70 in Factor V, 0.68 in Factor VI, 0.77 0.81 in Factor VII, and 0.64 to 0.67 in Factor VIII. These correlations suggest a fairly strong reliability of all the eight factors or measures.

## 2.2 USES OF LH SCALE

Most individuals possess skills, abilities, and opportunities for successful performance, but they fail to perform because of expectations of response-outcome non-contingency formed on the basis of their past experiences rather than on the basis of current realities. The first step in alleviating LH in humans is assessing the nature of LH involved i.e., whether the LH is produced by attributions to internal-global-stable causes, internal-global-unstable causes, external-global-stable causes, and so on. Once the type of LH involved is diagnosed, it can be alleviated through an appropriate attributional training programme or by exposing the individuals to response-dependent success situations or both. The present LH scale will primarily help diagnose the nature of LH involved in a given case.

Some of the interventions for alleviating LH are suggested by Abramson et al (1980). Briefly these includes:

- a) Changing the estimated probability of the outcome. This is done by changing the environment in such a way as to reduce the likelihood of aversive outcomes and increase the liklihood of desired outcomes.
- b) Making the highly preferred outcomes less preferred by reducing the aversiveness of unavoidable outcomes or the desirability of obtainable outcomes.
- c) Changing the expectation from uncontrollability to controllability when the outcomes are indeed obtainable. If the individual does not know how to omit the appropriate responses than he or she should be trained in these skills.

d) Changing unrealistic attributions for failure to more realistic attributions - such as external, specific and unstable - and changing unrealistic attribution for success to internal, global and stable factors.

Martinko and Gardner (1982) have eleborated some of these strategies, besides suggesting some more. These are briefly discussed below:

## a) Immunisation:

Immunisation strategies are pretreatment strategies designed to provide individuals with experiences that will reduce their susceptibility to LH. Those belonging to disadvantaged group such as women or new workers may be pretreated by designing jobs so that these individuals will experience reasonable levels of success parly in their career. These strategies could be incorporated into training and/or orientation programmes.

## b) Discrimination Training:

These strategies are based on the assumption that people do not sufficiently assess environmental cues associated with their successes and failures. They often need periodic feedback to help identify important cues. Such training, therefore focus on helping employees in recognising differences between the prior and present situation. Thus, the management for example, might pointout the differences between prior and current promotional policies.

## c) Attributional Training:

This has been suggested by Abramson et al (1980) and has already been discussed.

## d) Modelling:

Research by Devellis, Devellis and Mc Cauley (1978) demonstrated that people can acquire LH by observing a model. Thus, the reciprocal proposition that people can unlearn 'organisationally induced help-lessness (OIH) vicariously' appears reasonable. This method encourages organisations to develop programmes to make successful employees more visible and to reward success through strategies such as social recognition.

\* \* \* \*

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Table 1 : Factor Analysis of LH Items (Varimax Rotation)

Item No.*	Factors										
	ī	ΙΙ	111	IV	٧	VI	VII	VIII			
1	07	-09	-11	D1	10	23	08	-14			
2	<b>-</b> 21	<b>-17</b> .	-27	11	-27	-	-	-			
3	-08	11	04	-05	00	02	03	-14			
4	0 <b>9</b>	-73	-11	-03	<b>0</b> 0	<b>-</b> 08	-01	-02			
5	<b>-</b> 13	-40	-10	17	-39	-29	-0 <b>9</b>	-20			
6	-04	-05	-04	-01	<b>-11</b>	<b>~</b> 12	-02	07			
7	03	<b>-1</b> 5	05	-03	<b>-</b> 12	01	<b>-1</b> 0	<b>-</b> 04			
8	-10	01	<b>-</b> 03	09	-02	D2	07	-80			
9	03	05	01	62	01	.06	12	<b>-</b> 05			
10	-13	04	<b>-</b> 03	<del>-</del> 12	-12	04	<b>-10</b>	-01			
1 <b>1</b>	-04	-11	<b>-</b> 02	-15	39	<b>-</b> 12	92	Q <b>9</b>			
12	-01	<b>5</b> 0	03	-03	79	17	<b>0</b> 0	-04			
13	<b>-</b> D2	<b>-3</b> 2	05	-01	-02	<b>-</b> 02	-07	. 11			
14	. 04	09	-07	09	03	<b>-1</b> 0	8 <b>7</b>	19			
15	30	25	<b>-</b> 19	<b>-</b> 06	10	-37	<b>-</b> 25	8/5			
16	14	37	00	-05	36	<b>-</b> 18	16	<b>-</b> 06			
17	11	05	01	06	04	05	<del>-</del> 04	06			
18	-11	<b>-</b> 25	-02	0 <b>7</b>	-03	<b>-</b> 16	00	28			
19	69	10	00	10	09	<b>-1</b> 8	06	-12			
20	13	-08	<del>-</del> 18	12	<b>-</b> 13	<del>-</del> 67	07	02			
21	-08	-12	01 .	08	-26	<del>-</del> 18	-01	-01			
22	<b>~</b> 15	<b>18</b>	10	-03	<b>-</b> 15	-04	<b>-</b> 04	04			
23	04	10	<b>-</b> 06	01	<b>-</b> 08	-04	00	03			
24	-01	26	13	<b>Ω7</b>	07	25	-01	<b>-</b> 30			
25	13	~13	00	0 <b>7</b>	-12	-19	, 02	-21			

Table 1 Continued:

			·	·	······································			
Item No.				Fact	ora			
	1	11	III	IV	V	VI	VII	VIII
26	<b>-</b> 05	<b>-</b> 99	<del></del> 10	12	<b>~</b> 60	<b>-</b> 10	14	08
27	<b>-</b> 63	<b></b> 01	02	-09	16	<b>-</b> 08	<del>-</del> 12	11
28	14	Ò1	-12	12	04	-13	<b>-</b> 92	04
2 <del>9</del>	-10	<b>-</b> 27	-13	<b>-</b> 05	09	<b>-</b> 19	<del>-</del> 34	. 05
30	-06	-08	-11	10	-07	00	-06	06
31	-04	03	0.3	17	-06	-21	<b>-29</b>	02
32	-08	-01	00	<b>-</b> 02	<b>-</b> 06	00	<b>-</b> 1Ó	-03
33	-18	-03	-18	50	-02	-14	-07	03
34	-17	-06	16	01	-03	<b>-</b> 15	22	10
35	<b>-</b> 06	-01	-04	08	02	-15	08	16
36	-04	-09	<b>-</b> 13	07	13	<del>-</del> 10	00	<del>-</del> 06
37	-17	<b>-</b> 10	-16	07	-14	9 <b>7</b>	<b>-3</b> 5	<b>-</b> 05
<b>3</b> 8	13	14	<b>-</b> 21	67	<b>-</b> 02	<b>-</b> 20	09	G5
59	<b>-</b> 93	<b>-</b> 16	21	24	04	<b>-14</b>	07	-09
40	-22	-08	-02	-10	<b>-</b> 92	06	05	02
41	06	03	02	53	02	<b>-</b> 16	11	<b>-</b> 02
42	04	06	16	-17	01	. 03	03	<b>-</b> D₽
43	<b>-</b> 53	-07	16	-28	07	12 .	06	-05
. 44	05	06	-01	14	<b>-</b> 02	-03	13	00
45	02	<b>-</b> 11	<b>-</b> 71	10	01	<b>-</b> 83	<b>-</b> 06	<b>-</b> 06
46	<b>-</b> 62	-07	<b>~</b> 19	06	-04	-21	<del>-</del> 03	21
47	02	01	~07	07	-04	. 06	04	<b>-</b> 02
48	-71	06	03	<b>-</b> 19	06	9۵	02	<b>-</b> 09
49	-86	01	-02	<b>-</b> 01	-09	04	00	02
50	<del>-</del> 82	02	06	-06	-04	07	03	-05

Table 1 Continued:

Item No.				Facto	ors	<del></del>		
	I	ΙΙ	III	ΙV	٧	ΛI	VII	VIII
51	<b>-1</b> 7	23	19	-62	-11	-05	<b>-</b> 0 <b>7</b>	-14
<b>5</b> 2	10	Ð <b>7</b>	<del>-</del> 13	. 05	01	04	. 08	02
5 <b>3</b>	00	-07	17	07	04	<b>-</b> 03	-17	<b>-</b> 15
54	<b>-</b> 02	-01	06	22	22	<b>-</b> 51	<del>-</del> 26	08
55	14	<del>-</del> 05	-04	52	D1	-21	90	<del>-</del> 06
<b>5</b> 6	0 <b>7</b>	06	30	-03	-04	14	16	-12
57	<del>-</del> 01	26	47	05	04	-24	-10	<del>-</del> 16
58	<b>-27</b>	-07	<del>-</del> 32	11	-17	-09	20	07
59	D <b>1</b>	<del>-</del> 02	04	14	-08	<del>-</del> 04	-03	03
<b>6</b> D	₽8	02	09	01	<del>-</del> 05	<b>-</b> 03	20	08
61	03	05	12	73	<b>-1</b> 0	. 01	-02	-07
62	18	<b>-</b> 09	03	. 74	05	01	81	-12
63	-00	<del>-</del> 20	04	37	-14	03	-14	<b>-</b> 02
64	06	03	05	<b>-</b> 07	16	<b>-</b> 04	02	<b>0</b> 2
65	22	04	-02	-09	<b>-</b> 02	03	-04	01
66	<b>-</b> 19	35	<b>-</b> 59	06	-06	<del>-</del> 14	-03	02
67	02	54	10	<b>-</b> 18	<b>-</b> 07	<b>-</b> 14	-04	-08
68	28	<b>-</b> 05	-14	17	-13	01	13	-07
69	04	-08	<del>-</del> 09	53	24	-07	-05	12
<b>7</b> 0	19	01 .	-12	37	<b>-29</b>	14	<del>-</del> 05	18
71	-04	-01	<b>-</b> 13	22	-04	-10	۵3	<b>-</b> 07
72	-40	36	14	<b>-</b> 16	02	05	08	<b>-3</b> 1
73	<b>-</b> 09	08	00	13	04	00	D8	<b>01</b>
74	26	05	-06 ,	49	<b>-</b> 10	-01	10	o <b>9</b>
75	12	00	<b>-</b> 12	08	-09	02	01	<b>-</b> 06
				•				

Table 1 Continued:

Item No.	·	Factors								
TUBN NO.	Ī	II	III	IV	٧ .	VI	VII	VIII		
76	13	02	80	06	-09	-01	-17	10		
77	00	-08	-06	08	<b>-2</b> 0	<b>-</b> 03	-06	02		
78	04	-08	04	10	10	00	16	80		
79	<b>-</b> 03	<b>-</b> 89	<b>-</b> 07	03	04	-06	<b>-</b> 03	-01		
<b>8</b> 0	<del>-</del> 02	-03	-12	31	<b>-</b> 08	12	-03	17		
8 <b>1</b>	19	-08	07	23	11	-05	01	-03		
82	02	. 11	11	19	07	-13	<b>-</b> 11	01		
83	-08	00	-12	03	-05	-11	09	-02		
84	11	02	14	37	D <b>7</b>	-02	<b>-</b> 03	<b>-</b> 08		
85	<del>-</del> 06	02	05	<b>-</b> 06	-08	<b>-</b> 15 '	04	-42		
86	-13	01	01	-04	04	<b>-</b> 52	74	<b>_</b> 08		
Per cent Variance Explains	10.9	5.8	4.5	<b>4</b> •0	3.5	2 <b>.9</b>	r.5	. 2.4		

<sup>1.</sup> Decimal points are omitted.

<sup>2. \*</sup> These are item numbers as given in Appendix I.

Table 2: Factor Analysis of Selected LH Items (Varimax Rotation)

Item No.		<del>-</del> -			Factors			
- UGH 110 6	I	II	111	IV	V	VI	VII	VIII
4	04	12	79	11	-03	02	02	-11
8	08	-14	-02	-11	01	15	67	<b>-</b> 29
11	-17	<b>-</b> 05	01	24	69	16	<b>-</b> 08	-14
12	-04	<b>-</b> 36.	-03	24	<del>-</del> 79	-03	00	-19
<b>2</b> 5	12	12	05	· <b>79</b>	-08	05	<del>-</del> 07	-07
26	11	<del>-</del> 04	10	19	<b>-6</b> 6	2 <b>8</b>	01	19
28	05	10	-04	84	<b>-</b> 07	00	07	04
3 <b>3</b>	56	<b>-</b> 25	15	13	-05	-12	<b>-</b> 12	26
37	14	-14	-03	-01		<b>-</b> 33	04	15
41	66	-01	-02	21	-06	-04	<del>-</del> 12	<del>-</del> 15
43	-14	<del>-</del> 63	20	<del>-</del> 14	00	-24	10	12
45	-14	01	2 <b>7</b>	10	02	08	<b>-</b> 01	18
48	<b>-</b> 20	<b>-</b> 73	<b>-</b> 14	-17	00	08	-05	14
49	<b>-</b> 07	<b>-</b> 86	<b>-</b> 54	<b>C1</b>	<del>-</del> 06	12	<del>-</del> 96	<del>-</del> 06
50	<del>-</del> 11	-86	02	<b>-</b> E4	01	.08	0 <b>7</b>	-08
54	3 <del>6</del>	04	-01	4 <b>7</b>	06	<b>-4</b> 1	23	28
55	5 <b>7</b>	18	11	2 <b>0</b>	05	6 <b>7</b>	D <b>1</b>	<b>-33</b>
56	<del>-</del> 05	04	-01	<del>-</del> 96	06	01	11	<del>-</del> 72
57	12	<b>-</b> 08	<b>-</b> 26	24	07	<del>-</del> 45	06	<b>-</b> 51
61	71	05	01	<b>-</b> 09	-16	-04	05	11
<b>6</b> 2	75	24	05	01	<del>-</del> 04	00	19	03
67	<b>-</b> 16	ũ <b>9</b>	<del>-</del> 69	12	00	05	16	<b>-</b> 20
74	61	25	<b>-</b> 03	01	02	-20	<del>-</del> 03	09
85	<b>-</b> 04	01	-09	12	-08	-03	81	05
86	-14	<del>-</del> 19	<b>-07</b>	06	01	69	14	04
Per cent Variance Explained	15.7	10.3	8.1	6.6	6.2	4.9	4.4	4.3

<sup>1.</sup> Decimal points are omitted.

<sup>2. \*</sup>These are item numbers as given in Appendix I.

Table 3: Items Loaded on Different Factors

item No.	Item	Factor Loading
	FACTOR-I	·
33	I do not like my present job but I cannot quit it, because I will not be able to get a better job.	<b>-</b> 56
41 .	I do not like many aspects of my job, but what can I do about it?	• 66
55	If I was not successful in my organisation, it is because my bass did not help me.	•57
61	There is no use in working very hard in this organi- sation, because whatever rewards I get are in no way related to my performance.	.71
62	If I was not successful in my organisation, it is because the culture of my organisation does not facilitate me to succeed.	.75
74	Many times I feel that I have little influence over things that are happening to me.	, + <b>6</b> 1
	FACTOR-II	
43	when I fail to do as well as I am expected to in my organisation, it is usually due to lack of effort on my part.	63
45	If I was not successful in my organisation, it is because I have not worked hard enough.	<b></b> 73
49	If I was to fail in a task, it would probably be because I lacked skill in that area.	<b></b> 36
50	If I am not successful in my organisation, it is because I lack expertise to do well on my job.	86
	FACTOR_III	
4	No matter what I do, some people do not like me.	•79
67 (R	My life is mainly shaped by my efforts.	<b>≁</b> •69

Itam	No •	Item	Factor Loading
<del></del>	<del></del>	FACTOR-IV	
20	•	There are many undesirable elements in the culture of my organisation, but I feel helpless to correct them.	•79
28		I know many things are bad in my organisation, but I am unable to do anything about them.	•84
54		Even if it is urgent, there is no use trying to do some thing in this organisation if it is against rules.	• 47
	•	FACTOR-V	
11		There is a direct relation between how hard I work and what results I get.	•69
12		Honesty, hard work, and truthfulness are not our way of life, and there is hardly anything one man can do about it.	<b></b> 79
26		I do not struggle hard to overcome my faults because I Pnow I will not be able to correct them.	<b></b> 66
		, <u>FACTOR-VI</u>	
37	(R)	It is not always wise to plan too far ahead because many things turn out to be a matter of good or bad luck any way.	33
8 <b>6</b>		When I cannot understand something, it is usually because it is too hard to understand for me as well as for others.	•6 <del>9</del>
		FACTOR-VII	
8	(R)	If I have more/less friends, it is mainly because I wanted to have more/less friends.	•6 <b>7</b>
85	(R)	Whether or not I get into an accident depends mostly on how careful I am while walking or driving on a road.	• B <b>1</b>

Table 3 Continued:

Item No.		Item	Factor Loading
56	(R)	If I really try hard, I can become an expert in computer sciences or any other difficult task, in time.	<b>7</b> 2
57	(R)	If seems to me that getting along with people is a skill.	<b></b> 51

<sup>(</sup>R) Indicates that these items are to be revised while scoring.

Table 4: Item-Total Correlations

Item No. vs Total	r
FACTOR	<u>1-1</u>
33	•56
41	.66
55	.65
<b>.</b> 61	.70
.62	.75
74	.62
<u>Fac<b>t</b>o</u>	R_II
4 <b>3</b>	•69
48	.81
49	.84
50	.85
· FACTO	R_III
4	•72
67	<b>.</b> 51
FACTO	R_ I V
20	•80
28	
54	.71
FACTO	R_V
. 11	•30
12	•70
26	•67

Table 4 Continued:

tem No. vs Total	r
	FACTOR-VI
37	•68
8'6	•68
	FACTOR-VII
8 -	
7 <b>7</b>	.77
	. FACTOR_VIII
<b>5</b> 6	<b>.</b> 67
57	.64

<u>A.</u>	Particula	ers or t	ne Ke	spond	ents	•				
1.	Name of y	our org	an <b>i</b> sa	ation	;	:				
2.	Your high	nest qua	lific	ation	. ;	•				
3.	Age in ye	ars				D E				
4.	Sex				;	: Mai	le/Fer	mal <b>e</b>	9	
5.	Designati	on			;	<b>.</b>				
6.	Experience (in years		e pre	esent	post	ť				
7.	Total Exp	erience	(in	years	) :	D				
В.	Please in the follo								ent with e propriate	
1.	The count much the							د ر د	and there	is not
	Strongly	agree	1	2 3	4	5 (	5	St	crongly di	lsagree
2.	I usually them thro		make	plans	beca	ause :	I have	e ha	ard time :	Following
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
3.	What happ	ens to	me is	inva	riabl	ly my	own d	doir	ng.	
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
4.	No matter	what I	do,	some	peop]	le do	not 1	like	e me.	
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
5.	To get lo hands but						rs is	not	in one's	s own
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
6.	There are system of nothing a	the co	untry						current po e me can d	
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
7.	One has t	o be lu	cky t	o suc	ceed	<b>i</b> n a	compe	etit	ive <b>exa</b> m:	lnation.
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
8.	If I have to have m					is	mainly	y be	ecause I v	vanted
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree

9.	How many	friends	I hav	ve dej	pends	s on l	now ni	lce	a person	I am
	Strongly	agree	1	2	3	4	5	6	strongly	disagree
10.	Nothing I			ns to	have	any	effec	ct c	on what ha	appens
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
11.	There is results 1		t rela	ation	betv	veen 1	now ha	ard.	I work an	nd what
	Strongly	agree '	1	2	3	4	5	6	strongly	disagree
12.	Honesty, and there								our way o	
	Strongly	agree	1	2	3	4	5	6.	Strongly	disagree
13.	One is po		and h	nelpla	ess a	igains	st the	e ov	rerwhelmir	ng forces
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
14.	One cann	t expect	fair	play	/ fro	m pol	ice d	lepa	rtment in	India.
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
<b>1</b> 5.	One shoul having go				app	ointe	ed in	an	organisat	ion
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
16.	When I di worked ha						ly fe	cl	that I ha	nd not
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
17.	Whether cability.	or not I	get t	to be	a le	ad <b>er</b>	depen	ıds	mostly or	n my
	Strongly	agree	1	2	3	4	5 `	6	Strongly	disagree
18.	As I am range heed			maki	ing g	ood s	sugges	tic	ons, nobod	ly pays
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
19.	When I ge for it.	et what I	want	: <b>i</b> t i	ls us	ually	beca	use	e I worked	l hard
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree

20.	There are organisat									E my
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
21.	To a greathappening		t, my	life	is	contro	olled	ру	accidenta	al
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
	Reforming mpossible	g the fur	nction	ning (	of po	olice	depai	rtme	ent in Ind	dia <b>i</b> s
	Strongly	agree	1	2	3	4	5	6	Strongly	đisagree
23.	Marriages	s are mad	de in	heave	en•	ı				
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
24.	In my cas		ess at	t mak:	ing :	friend	ds der	pend	ds on how	hard I
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
25.	The type enced by		hbour	s I an	n go:	ing to	have	e is	s in no wa	ay influ-
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
26.	I do not I will no						ny fa	ults	s because	I know
	Strongly	agree	1	2	3	4	5	б	Strongly	disagree
27.	All impor	rtant eve	ents :	in my	life	e are	dete	cmir	ned by my	own actions.
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
28.	I know ma						yanisa	etio	on but I a	am unable
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
29.	I have of	ten four	nd our	t that	t wh	at is	goin	g to	happen v	will happen.
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
30.	I feel th	nat peop	le who	o are	lone	ely la	ack so	ocia	al compete	ence.
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
31.	Having br	right and	d har	d worl	king	child	dren :	is a	a metter o	of good

Strongly agree 1 2 3 4 5 6 Strongly disagree

32.	If I did I hadn't relation	put muc	alonq h effo	g wel ort i	l wi nto	th d	others, persuit	it of	would tell me that interpersonal
	Strongly	agree	1	2	3	4	<b>:</b>	6	Strongly disagree
3 <b>3.</b>	I donot will not							qui	lt it, because I
	Strongly	agree	1	2 '	3	4	5	6	Strongly disagree
34.	I always	make th	ings t	to ha	ppen	my	way.		
,	Strongly	agree	1	2	3	<u>4</u>	5	6	Strongly disagree
35.	When I g	et what	I wan	t, it	is	นธน	ally bed	aus	se I tried hard for
	Stronglỳ	agree	1.	2	3	4	5	6	Strongly disagree
36.	National are so c them.	problem omplicat	s like ed, tl	e ter he co	rori	.sm .sm	, commur n can do	nal: ) Ve	ism and corruption ary little about
	Strongly	agree	1	2	3	4	5	6	Strongly disagree
37.	It is no turn out	t always to be a	wise matte	to p er of	olan goo	too d o	far ahe r bad <b>l</b> u	ead ack	because mary things any way.
	Strongly	agree	1	2	3	4	5	6	Strongly disagree
38.	There is		ttle 1	we as	con	ısum	ers can	do	to keep the prices
	Strongly	agree	1	2	3	4	5	6	Strongly disagree
39.	It is a	matter o	f luc	k hav	ring	eff	icient s	subo	ordinates -
	Strongly	agree	1	2	3	4	5	6	Strongly disagree
40.	If I try organiza	sincere	ly, I	can	chan	ıge	the wor	kind	g style of my
	Strongly	agree	1	2	3	4	5	6	Strongly disagree
41.	I don't	like man	y asp	ects	of m	y j	ob, but	wh	at can I do about it?
	Strongly	agree	1	2	3	4	5	6	Strongly disagree
42.	The most	importa	nt re	ason	for	my	success	in	life is my ability.
-	Strongly	agree	1	2	3	4	5	6	

43.	When I is sation,	fail to d it is us	o as wally	well due	as a	ım <b>ex</b> p .ac <b>k</b> o	ected of eff	to ort	in my or on on my pa	gani. rt.
	Strongly	y <b>a</b> gree	1	2	3	4	5	6	Strongly	disagree
44.	It is no I cannot	o use wor t do much	rying abou	abou t the	it th	e pol	icies	of	my organ	isation.
	Strongly	y agree	1	2	3	4	5	6	Strongly	disagree
45.	If succe helped k	eed on a by other	task, peopl	it i e.	s us	ually	beca	use	I am luc	ky or am
	Strongly	y agree	1	2	3	4	5	6	Strongly	disagree
46.	Corrupti eliminat	lon is so te it.	stro	ngly	<b>r</b> oot	ed in	this	COI	untry we	can not
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
47.	Getting	a job in	one's	s hom	e to	wn is	a ma	ttei	r of luck	•
	Stronly	agree	1	2	3	4	5	6	Strongly	disagree
48.	If I wer I have n	re not su ot worke	ccessi d hard	ful i	n my ugh.	orga	nisat:	ion	, it is be	ecause
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
49.	If I wer I lacked	e to fai: I skill in	l in a	a tasi	k, i a.	t wou	ld pro	<b>o</b> bak	o≱y be bed	cause
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
50.	If I am lack exp	not succe ertise to	essful o do w	in r vell d	my o	rgani: y job	sation •	ı, i	lt is beca	use I
	Strongly	agree	1	2	3	4	5	6 ·	Strongly	disagree
5 <b>1.</b>	In my ca result o	se, the of	jood f d work	eedba	ack :	I rece	eive i	is a	nlways the	direct
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
52.	It is no anything	use worn	rying nem an	about yway.	t pul •	bl <b>i</b> c a	effair	S.	I cannot	do .
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree
53.	To get to place at	he right the righ	break	s in	life	e, one	e has	to	be in the	right
	Strongly	agree	1	2	3	4	5	6	Strongly	disagree

54.	Even if thing in								g to do some- t rules.	
	Strongly	agree	1	2	3	4	5	6	Strongly disagree	
55 <b>.</b>	If I wer				n my	orga	mizat	ion	, it is because	
	Strongly	agree	1	2	3	4	5	6	Strongly disagree	
56.	If I reasciences			I ca	n be	come	an ex	per	t in computer	
	Strongly	agree	1	2	3	4	5	6	Strongly disagree	
57.	It seems	to me	that g	ettin	g al	ong w	ith p	eop	le is a skill •	
	Strongly	agree	1 .	2	3	4	5	6	Strongly disagree	
58.	I don't and henc							<b>i</b> gh	t advice to others	
	Strongly	agree	1	2	3	4	5	6	Strongly disagree	
59.	When I a	m tired	, it i	s dif	ficu	lt fo	or me	to	think creatively.	
	Strongly	agree	1	2	3	4	5	6	Strongly disagree	
60.	People 1 poverty,								social evils like ociety.	
	Strongly	agree	1	2	3	4	5	6	Strongly disagree	
61.		whatever							s organization, y related to my	
	Strongly	ag <b>ree</b>	1	2	3	4	5	6	Strongly disagree	
62.		ure of r							, it is because litate me to	
	Strongly	agree	1	2	3	4	5	6	Strongly disagree	
63.									olleagues at work g about it.	
	Strongly	disagr	ee	1	<b>2</b> .	3	4	5	6 Strongly disagree	
64.	One has	to work	hard	to su	ccee	d in	a com	pet	itive examination.	
	Strongly	agree	1	2	3	4	5	6	Strongly disagree	
65.	In my exa								ion between the ept.	
	Strongly	ag <b>ree</b>	1	2	3	4	5	6	Strongly disagree	

66.	I can prolife.	etty muc	h pla	n and	det	ermin	e wha	t w	ill r	appe	n in my
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
67.	My life	is mainl	y shaj	ped b	y my	effo	rts.				
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
68.	Politics man like	and gov	ernmen ot rea	nt are	e so infl	rence comp	licato them	ed •	that	an a	verage
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
69.	My poor p	performa as just	nce or unluch	the cy.	job	some	times	ma	kes m	e to	think
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
70.	Getting a	a job th	at one	most	t lik	ces .	is alr	nos	t imp	ossi	ble in
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
71.	If one ge	ets a go	od bos	ss at	work	, he	shoul	lđ:	feel	luck	Y 4
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
72.	IfLI fail sufficier	on a to	ask, i t.	t is	usua	ally h	pecaus	se :	I did	n't j	out in
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
73.	I often f children.	eel tha	t I do	not	have	the	patie	ence	e to :	befr:	iena
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
74.	Many time that are	. I feel happenin	that ng to	I hav	e li	ttle	<b>i</b> nflu	enc	ce ov	er tì	nings
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
75.	It is er over that	y diffic the pol	cult f Litici	or pe ans d	ople o in	li <b>k</b> e thei	me t	o h	nave i	nuch	control
	Strongly	agree	1	2	3	4	5	6	Stro	ngly	disagree
76.	What has even by a	been des fractio	stined on.	cann	ot b	e alt	ered	by	one's	s act	cions
	Strongly	ag <b>ree</b>	1	2	3	4	5	6	Stro	ngly	disagree

77.	Population explos of our achievement a little guy like growth.	its o	n tec	hnole	ogical	L and	ecc	onomic fro	nt. But
	Strongly agree 1	. 2	3	4	5	5	Str	ongly dis	agree
78.	I know my vote to any difference to						ner	will not	make
	Strongly agree	. 1	2	3	4	5	6	Strongly	disagree
79.	I often feel that gues at work.	; I 1.	ack s	ocia	l skil	lls to	ed c	efriend my	collea.
	Strongly agree	1	2	3	4	5	6	Strongly	disagree
: 80.	I often feel inca I know it is goir						situ	lation eve	en when
	Strongly agree	1	2	3	4	5	6	Strongly	disagree
81.	Political parties member has not go								
	Strongly agree	1	2	3	4	5	6	Strongly	disagree
82.	It is impossible functioning of go	to c	heck ment	the porgai	polit: nizat:	ical : ions.	inte	ereference	e in the
	Strongly agree	1	2	3	4	5	6	Strongly	disagree
	Maths is always of it properly.	reek	and	Lati	n to r	me.	I c	ann't unde	erstand
•	Strongly agree	1	2	3	4	5	6	Strongly	disagree
84.	There is not much If they like you,					hard	to	please pe	eople.
	Strongly agree	1	2	3	4	5	6	Strongly	disagree
85.	Whether or not I careful I am while	get Le wa	into lking	an a	ccide: drivi:	nt den	en a	ds mostly road.	on how
	Strongly agree	1	2	3	4	5	6	Strongly	disagree
86.	When I cannot und is too hard to un	derst nders	and s	omet for	hing, me as	it is	s ua as	sually bed for other	cause it
	Strongly agree	1	2	3	4	5	6	Strongly	disagree

## APPENDIX\_II

51. No.	Item		rongly ree				trongly isagre
1.	I do not like my present job but I cannot quit it, because I will not be able to get a better job.	1	2	3	4	5	6
2.	I do not like many aspects of my job, but what can I do about it?	1	2	3	4	5	6
3.	If I was not successful in my organisation, it is because my boss did not help me.	1	2	3	4	5	6
4.	There is no use in working very hard in this organisation, because whatever rewards I get are in no way related to my performance	1	2	3	4	5	6
5•	If I was not successful in my organisation, it is because the culture of my organisation does not facilitate me to succeed.		2	3	4	5	6
6.	Many times I feel that I have little influence over things that are happening to me.	1	2	3	4	5	6
7.	When I fail to do as well as I am expected to in my proanisation, it is usually due to lack of effort on my part.	1	. 2	3	4	5	6
8.	If I was not successful in my organisation, it is because I have not worked hard enough.	1	2	3	4	5	6
9.	If I was to fail in a task, it would probably be because I lacked skill in that area.	1	2	3	4	5	6
10.	I I am not successful in my organisation, it is because I lack expertise to do well on my job.	1	2	3	4	5	6
11.	No matter what I do, some people do not like me.	1	2	3	4	5	6
12.	My life is mainly shaped by my efforts.	1	2	3	4	5	6
13.	There are many undesirable elements in the culture of my organisation, but I feel helplass to correct them.	1	2	3	4	5	6
14.	I know many things are bad in my organi- sation, but I am unable to do anything about them.	1	2	3	4	<b>`</b> 5	. 6

## APPENDIX-II CONTINUED:

S1.	Item	Str Ag <b>r</b>	ee ongly		tronçl İsagre		
15.	Even if it is urgent, there is no use trying to do some thing in this organisation if it is against rules.	1	2	3	4.	5	6
16.	There is a direct relation between how hard I work and what results I get.	1	2	3	4	5	6
17.	Honesty, hard work, and truthfulness are not our way of life, and there is hardly anything one man can do about it.	1	2	3	4	5	6
18.	I do not struggle hard to evercome my faults because I know I will not be able to correct them.	1	2	3	4	5	6
19.	It is not always wise to plan too far ahead because many things turn out to be a matter of good or bad luck any way.	1	2	3	4	5	6
20•	when I cannot understand something, it is usually because it is too hard to understand for me as well as for others.	1	2	3	4	5	6 <sup>2</sup>
21.	If I have more/loss friends, it is mainly because I wanted to have more/less friends.	1	2	3	4	5	6
22.	Whether or not I get an accident depends mostly on how careful I am while walking or driving on a road.	1	2	3	4	5	6
23.	If I really try hard, I can become an expert in computer sciences or any other difficult task, in time.	1	2	3	4	5	E
24.	If seems to me that getting along with people is a skill.	1	2	3	4	5	6