

Original Research Article

A scale to measure Migration Proneness of tribespeople

Comment [V1]: The topic of the article is interesting. But the researcher could study the economic, social, cultural, environmental, policy-making, etc. variables in it so that the research results indicate practical and practical solutions.

Abstract

The aim of this study is to develop a scale to measure migration proneness of tribespeople. This study was designed as a quantitative survey research. A total 30 items were generated for measuring migration proneness Likert's summated rating method was followed in the study for scale construction. The relevancy of the items generated was established by judges rating. The scores for each items were summated over all the respondents and relevancy index was calculated. The indices used for the selection of items in the study were Index of discrimination (t-test), suggested by Edwards (1957) and Item score- total score correlation (Pearson's r), suggested by Anastasi (1961) and Guliford (1971). The statements with high t values, greater than 2.228 and r value greater than 0.4 were selected. Thus 12 statements were selected for the final scale. Split half reliability was used in the present study using odd even method. The correlation co-efficient ($r = 0.732$) for the half test was obtained. The reliability of the full test was found to be 0.845, which indicates the appreciable reliability of the scale. Care was taken to include items covering the universe of content with respect to the different dimensions of migration proneness in the scale, thereby satisfying the content validity criterion.

Comment [V2]: Why is this method used? Isn't Cronbach's alpha coefficient more valid?

Comment [V3]: You have only talked about validity and reliability, where are the results of your research?

1. Introduction

The word migration is derived from the Latin word *migrate*; meaning to change ones residence. It is difficult to define the concept „migration“ precisely, since it encompasses many aspects. Migration from one area to another in search of improved livelihoods is a key feature of human history. Migration is today a worldwide phenomenon and has become an important issue in our times. Human migration is the movement by people from one place to another with the intentions of settling, permanently or temporarily in a new location. The movement is often over long distances and from one country to another, but internal migration is also possible; indeed, this is the dominant form globally. People may migrate as individuals, in family units or in large

groups (Reips and Buffardi, 2012). Migration is a permanent or semi-permanent change of residence by an individual or group of people. It is a phenomenon as old as the history of mankind. Migration has been enormously influential in determining the changes in the socio-cultural landscape of man (Mosse *et al.*, 2002).

Migration has been both a boon and a curse to humans particularly the tribal people (Sundari, S., 2007). Migration is necessarily a pre-empt move; it is the survival instinct that drives humans to seek better prospects. The possible causes of migration can be identified as economic reasons such as dense population and lack of means of livelihood, facility of transport, attraction of industrial centers, facility of trade and commerce. Social reasons such as access to healthcare, education, housing etc, change in social status, change in occupation status. Physical factors such as availability of new land for agriculture purposes, facility of irrigation, availability of forest/mineral resources and Political factors like wars, society tensions, ethnic/ caste clashes (Martin, S.F., 2004). Due to many reasons like lack of employment, low job opportunities, marriage, food security, health issues, education etc many tribes people are migrating from their native places to various parts of the country. Besides this being one of the pioneering research study on migration proneness of tribes people, the results will be of transcended importance in providing the attitude of tribes people towards migration.

2. METHODOLOGY

Migration Proneness

It is operationally defined as the attitude of the respondents towards migration. A higher value of migration proneness shows positive attitude of the respondent towards migration. A scale was developed for measuring migration proneness of tribes people.

Item generation

The relevant items covering the universe of content in the measurement of migration proneness were collected by reviewing literature and discussion with experts in the concerned field. A total 29 items were generated for measuring migration proneness. These Likert's summated rating method was followed in the study for scale construction

Preliminary screening of the items by relevancy rating

Comment [V4]:

Comment [V5]: The introduction is very poorly written and is mostly an operational definition. Is the number of 5 sources suitable for a scientific article? It is better to add at least 20 up-to-date sources with coherence to the topic of your article.

Comment [V6]: How did you come to this conclusion? The table of results should be added

Comment [V7]: The research method is weak because the researcher could use statistical tests such as correlation and regression. The researcher mentioned that this research was done on the Likert scale. Has this variable been ordinal as it has been studied in the Likert scale? So why haven't you used non-parametric tests? You could define the independent variables of economic, cultural, educational, social, and policy-making, and investigate the barriers and facilitators of the desire to migrate using statistical methods.

The relevancy of the items generated was established by sending these items to 60 judges. Out of 60 judges, 45 responded within a period of one month. The draft scale was a Likert-type including 7 negative, 22 affirmative totally 29 items. Each item has 4 choices: “Most relevant”, “Relevant”, “Irrelevant”, and “Most irrelevant”. In order to convert answers to scores, “Most Relevant” was graded as 4, “Relevant” as 3, “Irrelevant” as 2, and “Most irrelevant” was graded as 1. Negative items were graded in reverse order.

The scores for each items were summated over all the respondents and relevancy index was calculated as

$$\text{Relevancy index} = \frac{\text{Total score obtained on each item}}{\text{Maximum possible score}} \times 100$$

Item analysis

The most important aspect in item analysis is the determination of the ‘index of discrimination’ of the items. The indices used for the selection of items in the study were Index of discrimination (t-test), suggested by Edwards (1957) and Item score- total score correlation (Pearson’s r), suggested by Anastasi (1961) and Guliford (1971)

Reliability of the scale

Split half reliability was used in the present study using odd even method. The scale was administered to 30 respondents belonging to a non-sample group and their responses were collected.

The scores obtained for all the odd items and all the even items were pooled. The two sets of scores thus obtained were correlated using Pearson’s product moment correlation. After finding reliability using split half method, reliability of full test was also calculated using the formula

$$\text{Reliability of the full test} = \frac{2 \times \text{reliability of the } \frac{1}{2} \text{ test}}{1 + \text{reliability of the } \frac{1}{2} \text{ test}}$$

Validity of the scale

Determination of content validity essentially involves the systematic examination of the test content to determine whether it covers a representative sample of the behavior domain being measured (Anastasi, 1961). Since the scale was constructed for quantitative purpose, the scale must have sufficient content validity in order to get constructive and valid results.

3. RESULT AND DISCUSSION

3.1. Preliminary screening of the items by relevancy rating

The relevancy of the items generated was established by sending these items to 60 judges. Out of 60 judges, 45 responded within a period of one month. On screening it was found that out of 45, 15 judges marked wrongly. Thus 30 responses were considered for relevancy rating. The relevancy index obtained for 29 items are shown in Table 1.

Table 1. Relevancy index of statements

Sl. No.	Statements	item score	Relevancy index
1	Migration is necessary for living.	106	88.33
2	Migration is necessary for development.	108	90.00
3	Migration will make you self sufficient.	106	88.33
4	If native place provide sufficient income, migration is not necessary.	92	76.66
5	Full potential on work is exhibited only in the migrated place	86	71.66
6	Migration is the only way to improve the living standard	94	78.33
7	Migration can improve the education of your children	100	83.33
8	Migration negatively affect the interpersonal relationship with in the family	104	86.66
9	Migration increases cosmopolitaness	102	85.00
10	Migration is helpful in increasing	90	75.00

	knowledge on agricultural practices		
11	Migration can improve occupational skill	96	80.00
12	Family can be taken care off effectively, even after migration	90	75.00
13	Seasonal migration is more beneficial than long term migration	116	96.66
14	job opportunities are more available through migration	114	95.00
15	Migration can fasten the economic growth of family	104	86.66
16	Migration can modernize migrant and his family	86	71.66
17	Migrants are getting more wages when compare with native place	110	91.66
18	Whole family migration is essential for better livelihood	92	76.66
19	Migratory places are more developed than native places	96	80.00
20	Settling permanently on migrated place is 1beneficial.	106	88.33
21	Migration on younger age is beneficial	94	78.33
22	Migrants are getting more value in the society	96	80.00
23	Migrants are happier	94	78.33
24	Migration induce bad habits	88	73.33
25	Migration can induce positive changes in personality	98	81.66
26	Migration increases living expenses.	82	68.33
27	Migration may cause health problems	88	73.33
28	Migrants face social discrimination	86	71.66

29	Migrants are less participating in social activities	86	71.66
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From the Table 1 it was clear that on statements 2,13,14 and 17 have highest relevancy index which was greater than or equal to 90. Statements 1,3,7,8,9,11,15,19,20,22,and 25 have high relevancy index greater than 80. For the purpose of scale construction, we didn't consider the statements having a relevancy index less than 80. Thus statements 4,5,6,10,12,16,18,21,23,24,26,27,28 and 29 were not appropriate to measure migration proneness of tribespeople. Thus there were 15 statements retained in the scale which were used for item analysis.

Comment [V8]: The researcher has only explained the table, the interpretation of these results should be written.

3.2. Item analysis

The most important aspect in item analysis is the determination of the 'index of discrimination' of the items. The indices used for the selection of items in the study were Index of discrimination (t-test) and Item score- total score correlation (Pearson's r).

Table 2. t value and r value of statements

Sl. No.	Statements	t value	r value
1	Migration is necessary for living.	7.00*	0.9534*
2	Migration is necessary for development.	5.22*	0.8860*
3	Migration will make you self sufficient.	5.22*	0.7060*
4	Migration can improve the education of your children	0.125	0.2111
5	Migration negatively affect the interpersonal relationship with in the family	2.825*	0.6035*
6	Migration increases cosmopolitaness	3.055*	0.7773*
7	Migration can improve occupational skill	7.000*	0.8102*
8	Seasonal migration is more beneficial than long term migration	3.055*	0.5081*
9	Job opportunities are more available	0.797	0.1409

	through migration		
10	Migration can fasten the economic growth of family	7.00*	0.7132*
11	Migrants are getting more wages when compare with native place	2.900*	0.5703*
12	Migratory places are more developed than native places	2.965*	0.5221*
13	Settling permanently on migrated place is beneficial.	4.320*	0.7074*
14	Migrants are getting more value in the society	2.910*	0.5140*
15	Migration can induce positive changes in personality	0.400	0.2563

From the Table 2, it was clear that statements 1,7 and 10 have t value greater than or equal to 7. These statements also had high r value. Statements 4, 9 and 15 had very low t and r value which were not selected for final scale. Thus statements with high t values, greater than 2.228 and r value greater than 0.4 were selected. Thus 12 statements were selected for the final scale.

3.3. Reliability of the scale

The scale was administered to 30 respondents belonging to a non-sample group and their responses were collected. The scores obtained for all the odd items and all the even items were pooled. The two sets of scores thus obtained were correlated using Pearson's product moment correlation.

Table 3. Total score of odd statements in split half method of reliability

Sl.No.	Odd Statements	Total score
1	Migration is necessary for living.	36
3	Migration will make you self sufficient.	34
5	Migration increases cosmopolitaness	40
7	Seasonal migration is more beneficial than long term migration	10
9	Migrants are getting more wages when compare with native place	42

11	Settling permanently on migrated place is beneficial.	22
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Table 4. Total score of even statements in split half method of reliability

Sl.No.	Even Statements	Total score
2	Migration is necessary for development.	32
4	Migration negatively affect the interpersonal relationship with in the family	24
6	Migration can improve occupational skill	36
8	Migration can fasten the economic growth of family	38
10	Migratory places are more developed than native places	36
12	Migrants are getting more value in the society	56

The correlation co-efficient ($r = 0.732$) for the half test was obtained. The reliability of the full test was found to be 0.845, which indicates the appreciable reliability of the scale.

3.4. Validity of the scale

Determination of content validity essentially involves the systematic examination of the test content to determine whether it covers a representative sample of the behavior domain being measured (Anastasi, 1961).

Care was taken to include items covering the universe of content with respect to the different dimensions of migration proneness in the scale, thereby satisfying the content validity criterion.

4. CONCLUSION AND SUGGESTIONS

In this study it was aimed to develop a reliable and valid scale to measure the migration proneness of tribespeople. The draft scale had 29 items and was applied to 60 judges. As the result of the judges rating 14 items were excluded from the scale and final form with 4 negative, 8 affirmative, totally 12 items were reached. These items were located under esteem, anxiety, confidence and attitude factors. At the end of the study the scale was proved to be a valid and reliable scale measuring migration proneness of tribespeople. The reliability coefficients calculated for the sub-scales were between 0.732 and coefficient for the whole scale was

calculated 0.845. It is necessary to reapply reliability and validity studies of this scale with non tribal people and analysis should be compared. Additionally, the correlation between attitudes towards daily job, incentives and modernisation can also be investigated.

Comment [V9]: In the conclusion and discussion section, the researcher should compare the results of his research with other researchers. In this part, the researcher did not do this. Where are the proposed solutions based on the research results? Suggestions have not been written.

References

Reips UD, Buffardi LE. Studying migrants with the help of the Internet: Methods from psychology. *Journal of Ethnic and Migration Studies*. 2012 Nov 1;38(9):1405-24.

Mosse D, Gupta S, Mehta M, Shah V, Rees JF, Team KP. Brokered livelihoods: Debt, labour migration and development in tribal western India. *Journal of Development Studies*. 2002 Jun 1;38(5):59-88.

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Martin SF. Women and migration. In Consultative Meeting on "Migration and Mobility and how this movement affects Women", Malmö 2004 Dec.

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Comment [V10]: The sources are old and few, at least 20 sources should be added.

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