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Development of a scale to measure the attitude of beneficiaries towards entrepreneurship development programmes

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Abstract

This paper narrates the entire methodology adopted for developing a scale to measure the attitude of beneficiaries towards entrepreneurship development programmes. The Likert's summated rating method was used to construct the scale. A comprehensive list of 100 statements was developed by thoroughly reviewing the literature and expert consultation. These items were subjected to a relevancy test by sending it for expert content evaluation. Based on the relevancy percentage (RP), relevancy weightage (RW) and mean relevancy score (MRS), 72 items were screened out for item analysis. The scale was administered to 32 beneficiaries of various entrepreneurship programmes. The internal consistency check using Cronbach's alpha was used to ensure the reliability of the proposed scale, and a value of 0.84 was obtained, indicating higher reliability. The scale developed finally consists of 20 statements, of which 14 are positive and six are negative. The standardized scale has practical applicability in measuring the attitude of beneficiaries towards entrepreneurship development programmes.

Keywords: Attitude, Cronbach's alpha, Entrepreneurship development programmes, Likert's summated rating, Scale construction, t-value

1. Introduction

Across the world, the establishment of micro, small, and medium enterprises (MSMEs) is recognized as a key driver for economic development, transformative growth, and a means to alleviate poverty (UNDESA, 2020) [1]. Studies worldwide identify entrepreneurship as the most important strategy in creating jobs, boosting income, and fostering sustainable development, especially in economies that are slightly behind their modern industrial counterparts (Ayat, 2020) [2]. Entrepreneurship plays a vital role in economic and social development, particularly in the field of agriculture. Innovative agri-entrepreneurship enhances market dynamics, diversifies crops, and introduces technologies, boosting productivity. This not only generates jobs but also sustains rural communities and livelihoods (Pan et al., 2017) [3]. Recognizing the significance of entrepreneurship development policymakers including international organizations like the United Nations and its agencies like the International Fund for Agriculture Development (IFAD), are increasingly investing in entrepreneurship development in developing underdeveloped countries to spur their economic and social progress (UN Ghana, 2017) [4].

Similarly, to foster entrepreneurship and to nurture and sharpen the entrepreneurial qualities of budding entrepreneurs, numerous entrepreneurship development programmes (EDPs) are being organized by various agencies in India. As a result, Kerala, a small southern state

of this sub-continent is witnessing a surge in entrepreneurial activities especially in agriculture and allied sectors. Kerala, popular for its unique model of development was also a pioneer in formulating its entrepreneurship policy way back in 2014 (KSUM, 2018) [5]. Entrepreneurship promotion is high on the agenda of the key designated actors like the Kerala State Industrial Development Corporation (KSIDC), Farmers Agribusiness Consortium Small incubation centres of Kerala Agricultural University, Startup Mission, and the National Bank for Agriculture and Rural Development (NABARD). From 2016-17 to 2020-21, among the micro, small and medium enterprise (MSME) units operating in Kerala, those engaged in the agriculture and food sector alone recorded a growth rate of 6.70 percent compared to the negative growth rate of all other sectors as well to the overall negative growth rate of seven percent (KSPB, 2022) [6].

EDPs by design are supposed to help farmers transform into successful entrepreneurs in agriculture (hereafter termed agripreneurs). However, this purpose would not be served if the trainees were not provided with the necessary support after training. They must be given orientation on the support that could be provided through different institutions. It is also important to devise effective linkages to make them available at appropriate times. Agripreneurs require not only training, but also access to land, financial, technological, infrastructural, and other essential support to start a business and sustain it successfully (Daniela *et al.*, 2015;

Dobrodomova *et al.*, 2020; Thephavanh, 2023) ^[7, 9]. It has been observed that any robust entrepreneurial ecosystem would ensure this support mechanism effectively. EDPs should also build up the trust of entrepreneurs in the reliability and efficiency of the support providing agencies, The increasing reliance of entrepreneurs on government agencies is an indication of the trust of people in the reliability of public systems (Eesley and Lee, 2022) ^[10].

The efforts of the government to boost agripreneurship should necessarily influence the attitude of entrepreneurs towards agri-entrepreneurship development programmes. Since attitude influences an individual's choice of action and responses to challenges, incentives, and rewards (Tripathi, 2015) [11], a seemingly positive shift in the attitude of the beneficiaries of EDPs should lead to the overall success of the entrepreneurship drive. Analysis of entrepreneurs' attitude towards EDPs would also act as valuable input for the policymakers to assess the needs of the beneficiaries and the effectiveness of implemented programmes. High positive attitude may indicate that the programmes have achieved their intended outcomes, while negative attitudes may point towards a need for further reform or modification.

Considering the importance of measuring attitude in determining the effectiveness of EDPs, the present research work intended to develop and validate an attitude scale for measuring the attitude of beneficiaries towards EDPs. This scale can be used to evaluate the attitude of beneficiaries towards different types of support provided through EDPs.

2. Materials and Methods

Attitude has been defined as the degree of positive or negative affect associated with some psychological object (Thurstone, 1946) ^[12]. It is the degree of positive or negative feeling, opinion, action, and belief associated with some psychological object. In this study, attitude is operationally defined as the degree of positive or negative feelings of the beneficiaries towards various aspects of entrepreneurship development programmes implemented through various public sector institutions in Kerala. We have used the summated rating scale, which is the most popular scale preferred by researchers for developing the scale to measure attitude towards entrepreneurship development. The steps followed in the construction of Likert's type scale are as follows (Garai *et al.*, 2021; Mukherjee *et al.*, 2018) ^{[13] & [14]}.

2.1 Item generation or collection of statements from different sources

Item generation is an imperative step in the development stage of an instrument (Hinkin, 1995) [15]. A pool of items which are relevant and reflective of the attitude being investigated was gathered through an exhaustive literature review, examination of government orders, description of schemes, and expert consultation.

2.2 Editing of statements

After the preparation of statements, each statement was checked and edited to reduce ambiguity using various informal criteria for editing statements to be used in the construction of attitude scales (Thurstone and Chave, 1929; Edwards and Kilpatrick, 1948; Edwards, 1969) [16, 18].

2.3 Relevancy test

The selected statements were sent to experts or judges through personal contact and Google forms with a request to check the relevancy of each statement on a six-point continuum *viz.* 'most relevant' to 'not relevant' (Table 1). Based on the scores given and the suggestions made by the experts, modifications were made and statements were selected.

 Table 1: Continuum for relevancy rating of developed items

Relevancy	Score
Most Relevant	5
More Relevant	4
Relevant	3
Less Relevant	2
Least Relevant	1
Not Relevant	0

2.4 Selection of items

The responses of the judges were tabulated and analysed to work out "Relevancy percentage (RP)," "Relevancy weightage (RW)" and "Mean relevancy score (MRS)" for all the statements, based on which the statements were selected. The methods of estimation of these values are explained below.

2.4.1 Relevancy percentage (RP): It was worked out by summing up the scores of the 'most relevant,' 'more relevant' and 'relevant' categories which were converted into percentages

$$RP = \frac{Frequency\ score\ of\ most\ relevant,\ more\ relevant,\ and\ relevant}{Number\ of\ judges} \times 100$$

2.4.2 Relevancy weightage (RW): It is the ratio of actual score obtained to the maximum possible obtainable score by each respondent.

$$RW = rac{Actual\ scores\ obtained\ for\ the\ statement}{Maximum\ possible\ scores\ obtainable\ for\ the\ statement}$$

2.4.3 Mean relevancy score (MRS): It was obtained by the standard formula

$$MRS = \frac{Actual\ scores\ obtained\ for\ the\ statement}{Number\ of\ judges}$$

2.5 Pilot study

A pilot study was done by collecting the responses of a group of non-respondents employing the selected statements, on a five-point continuum ranging from 'strongly agree' to 'strongly disagree' with a score of 5, 4, 3, 2, and 1, respectively for positive statements and reverse scores for negative statements.

2.6 Item analysis

Each item or statement was analysed for its suitability to be included in the final scale. For this purpose, 't – value' method was used. The frequency distribution of scores based on the response to all the statements was considered.

The steps to be followed to calculate the t-value (Edwards, 1969) [18] are as follows:

2.6.1 Collection of responses of the non-respondent sample on the five-point continuum as mentioned above 2.6.2 Arrange the respondents based on the scores in ascending order or descending order.

2.6.3 Select 25 percent of the respondents each with the highest and lowest scores

2.6.4 Calculate the t-value using the formula.

$$t = \frac{\overline{X_{H}} - \overline{X_{L}}}{\sqrt{\frac{\sum (X_{H} - \overline{X_{H}})^{2} + (X_{L} - \overline{X_{L}})^{2}}{n(n-1)}}}$$

Where.

 $\overline{X_H}$ - Mean score of the high criterion group,

 $\overline{X_L}$ - Mean score of the low criterion group,

$$\sum \left(X_{H} - \overline{X_{H}}^{2}\right) = \sum X_{H}^{2} - \frac{\left(\sum X_{H}\right)^{2}}{n}$$
 and

$$\sum \left(X_{L} - \overline{X_{L}}^{2} \right) = \sum X_{L}^{2} - \frac{\left(\sum X_{L}\right)^{2}}{n}$$

The value of "t" is a measure of the extent to which a given statement differentiates between high and low criterion groups. As a crude and approximate rule of thumb, statements with "t" value equal to or greater than 1.75 are considered for inclusion in the scale. This value indicates that the average response of the high and low-criterion groups to a statement differ significantly.

2.7 Reliability testing of the scale

Reliability of a scale is a statistical measure of the reproducibility of the instrument (Litwin, 1995) [19] and can be equated with its stability, consistency, and dependability. Internal consistency is a widely used method of testing for reliability (Polit and Hungler, 1995) [20] and Cronbach's alpha' (or 'coefficient alpha') is considered as the best estimate of measuring the internal consistency (Nunally, 1967) [21]. It is calculated using the formula.

$$\alpha = \frac{k}{(k-1)} \left(1 - \frac{\sum S_i^2}{S_t^2} \right)$$

Where.

α - Cronbach's alpha

k – the number of items

S_i²- the sum of variance of every item

 S_t^2 - the variance of the total scale

As a rule of thumb, a Cronbach's alpha of 0.70 to 0.79 is considered acceptable for a scale for research use and a value more than 0.79 is considered good (Table 2) (Mohd Arof *et al.*, 2018) [22].

Table 2: Rule of thumb for interpreting Cronbach's alpha

Cronbach's Alpha	Internal Consistency
≥ 0.9	Excellent
0.8 to 0.89	Good
0.7 to 0.79	Acceptable
0.6 to 0.69	Questionable
0.5 to 0.59	Poor
≤ 0.49	Unacceptable

2.8 Validity of the scale

The validity of a scale is the accuracy with which an instrument measures what it is intended to measure. The contents of this attitude scale were derived through an exhaustive literature review covering all relevant aspects and considering the opinion of concerned subject matter specialists. All the scale construction steps were carefully followed.

2.9 Administration of the scale

The final standardized scale would measure the attitude of beneficiaries towards entrepreneurship development programmes. The scale can be administered on a five-point continuum ranging from, "Strongly agree, Agree, Undecided, Disagree and Strongly disagree" with scores 5 to 1 for positive statements and vice versa for negative statements. According to the scores obtained through the summated rating approach, the agripreneurs were categorized into different categories based on their attitude towards EDPs using mean and standard deviation (SD) (Table 3).

Table 3: Criteria for categorizing agripreneurs into different categories

Sl. No.	Criteria	Category
1	< Mean - SD	Low
2	Mean - SD to Mean + SD	Medium
3	> Mean + SD	High

3. Results and Discussion

3.1 Collection and editing of statements

After a thorough literature review, expert consultation, and going through the guidelines of various entrepreneurship development programmes 100 statements relevant enough to measure the attitude of agripreneurs were framed. Editing and screening were done following the 14 principles for framing the statements for attitude scale construction.

3.2 Relevancy test

For the content validation, the 100 statements selected were sent to 50 experts through personal contact and Google forms. Out of which 36 experts responded, of which 4 were incomplete and therefore eliminated; and finally, only 32 forms were considered for the relevancy test. Based on the response made, the relevancy percentage (RP), relevancy weightage (RW) and mean relevancy score (MRS) were calculated for all the 100 statements. The calculated value of RP, RW and MRS was found in the range of 71.88 to 96.88; 0.68 to 0.88; and 3.53 to 4.41 percentages respectively. The statements with RP \geq 78. 13, RW \geq 0.72 and MRS \geq 3.53 were considered for final selection. By this process out of the total 100 statements, 72 statements were selected and a questionnaire was prepared (Table 4).

 $\textbf{Table 4:} \ \ \textbf{Statements selected based on relevancy test:} \ \ \textbf{Relevancy percentage (RP), relevancy weightage (RW) and mean relevancy score \\ (MRS) \ (n=72)$

Sl. No.	Statements	RP	RW	MRS	t value
1	EDP programmes relevant to the agripreneurs are being implemented	84.38	0.77	3.84	0.00
2	EDPs consistently provide need-based technical training	90.63	0.88	4.38	2.65*
3	EDPs fail to cover all segments of society (-)	81.25	0.71	3.56	0.23
4	The programmes focus only on the promotion of first-generation entrepreneurs (-)	81.25		3.56	-0.19
5		96.88	0.84	4.19	4.248*
6	EDPs are fostering small and marginal entrepreneurs extensively	96.88		4.31	0.51
7		96.88		4.41	-1.01
8	EDPs have succeeded in setting a positive trend of self-employment among people	96.88		4.22	-0.57
9	EDPs have aggrandized the social status of agripreneurs	84.38		3.59	-2.41
10	EDPs have succeeded in diffusing the social tension among youth due to unemployment	90.63		3.75	-0.42
11	EDPs have succeeded in strengthening the entrepreneurial motives of individuals	96.88		4.03	1.87
12	EDPs exert a significant influence in instilling a sense of empowerment.	90.63		4.25	0.00
13	EDPs have a beneficial upshot on the performance of the enterprise	93.75		4.06	-2.08
14	EDPs equip entrepreneurs with adequate practical aspects of entrepreneurship	84.38		4.03	1.43
15	Stage-wise support through EDPs is mostly hypothetical (-)	78.13		3.66	2.25*
16	EDPs are invariably beneficial in acquiring business skills	90.63		4.00	0.80
17	EDPs are consistently encouraging product diversification	96.88		3.97	3.19*
18	EDPs highlight the importance of secondary agriculture among individuals	81.25		3.84	2.73*
19	EDPs are a boon to local enterprises	93.75		4.13	1.57
20	Assistance was provided for securing loans from the banks	81.25		3.91	2.40*
21	EDP generated awareness on various platforms to connect with angel investors	84.38		3.75	3.99*
22	EDPs impart a clear understanding of claiming subsidies	90.63		3.91	0.31
23	EDPs fail to ensure the availability of working capital (-)	81.25		3.63	0.57
24	EDPs are enticing more people to agripreneurship	84.38		3.84	-1.44
25		93.75		4.06	2.92*
26	EDPs raised the repayment capacity of the agripreneurs	81.25		3.81	0.00
27	EDPs succeeded in popularising the benefits of collateral-free loans	81.25		3.69	2.03
28	EDPs provide limited fixed capital assistance (-)	81.25		3.69	0.75
29	EDPs are yet to receive wide acceptance (-)	81.25		3.81	-1.36
30	Assistance for conducting market research was greatly neglected (-)	90.63		3.97	3.33*
31	EDPs succeeded in instilling the idea of economic independence among women	84.38		4.00	-1.11
32	EDPs greatly enhanced the communication skills of entrepreneurs	93.75		4.13	0.80
	EDPs facilitated only limited networking among entrepreneurs, service providers, and researchers (-)			3.88	0.61
34	EDPs failed to promote public-private partnerships (-)	81.25		3.56	2.03
35	EDPs remain unsuccessful in reducing the skill gap (-)	87.50		3.81	0.00
36	EDPs succeeded in imparting knowledge on the use of ICTs in enterprises	87.50		3.84	2.34*
37	The amount of information delivered through EDPs is confusing (-)	81.25		3.59	1.82
38	Insufficient investment support through EDPs is diminishing its attractiveness to agripreneurs (-)	78.13		3.56	2.76*
39	The complexity of procedures disheartens the entrepreneurs (-)	78.13		3.75	2.30*
40	EDPs are successful in destigmatizing business failure	90.63		4.09	-0.97
41	Investments in agripreneurship education do not yield any improved results (-)	78.13		3.59	0.51
42	EDPs linked entrepreneurs with local banks	96.88		3.94	1.21
43	EDPs improved entrepreneurs' knowledge of tax benefits and exemptions	84.38		3.94	1.62
44	EDPs reduce the regulatory burden on entrepreneurs	81.25		3.91	1.46
45	Company registration and related grievances are not addressed properly (-)	81.25		3.69	0.31
46	The transparency and fairness of the grievance redressal mechanism improved considerably	87.50		3.84	2.26*
47	Provides guidance for efficient agricultural supply chain management	96.88		4.09	-1.13
48	Availing of requisite licenses has been made faster	96.88		4.25	0.94
49	EDPs improved the knowledge of intellectual property rights	93.75		4.28	2.14*
50	Accessibility to government support was made available with much ease	90.63		4.09	-0.72
51	EDPs effectively disseminated scientific knowledge to entrepreneurs	84.38		3.84	0.00
52	Renting machinery equipment made EDPs more popular	84.38		3.69	0.86
53	EDPs made the idea of low-investment businesses come true	87.50		3.81	1.53
54	Offers only limited linkages with research institutions (-)	81.25		3.53	2.16*
55	Very little handholding support is extended for the further sustenance of the unit (-)	78.13	0.72	3.59	-0.61
56	Considerably enhanced the accessibility to physical infrastructure facilities like transport, electricity,	81.25	0.72	3.59	-1.11
	internet etc.			*	
57	Incentives for post-harvest handling and processing have allured entrepreneurs towards setting up	78.13	0.71	3.53	1.21
	more food processing units				
58	EDPs are robust enough to meet the initial requisites of business establishment	78.13		3.75	2.97*
59	Grooming support rendered is insufficient to attract investors (-)	90.63		3.88	0.75
60	EDPs aided in nurturing ideas to prototype development	93.75	0.78	3.88	2.02

61	Commercializing and scaling up support rendered is inadequate (-)		0.74	3.69	0.00
62	EDPs focus on promoting conventional technologies rather than advanced technologies (-)		0.72	3.59	-0.55
63	EDPs unfailingly provided continuous technology backstopping to the beneficiaries	96.88	0.79	3.97	2.24*
64	EDPs empowered to hire need-based skilled manpower instead of random staffing		0.73	3.63	2.39*
65	The assistance extended through EDPs for developing project proposals was of little use (-)		0.76	3.81	1.42
66	Strategies for real-time tracking of changing market demands are not covered through the EDPs (-)		0.79	3.94	2.30*
67	Post-harvest losses are brought under check		0.82	4.09	-0.34
68	EDPs failed to improve prices for agricultural produce	90.63	0.79	3.94	1.94
69	EDPs extended streamlined access to various marketing platforms	93.75	0.80	4.00	2.65*
70	Assistance in the marketing of surplus produce was provided	90.63	0.79	3.94	0.00
71	EDPs help to limit post-harvest losses at the earliest point in the supply chain	90.63	0.82	4.09	-0.39
72	EDPs promote sustainable local sourcing	93.75	0.83	4.16	-0.78

^{*}Indicates statement selected for final scale; (-) indicate negative statement

3.3 Data collection and item analysis

Data were collected from 32 non-respondents. Their responses were marked on a five-point continuum from 'strongly agree' to 'strongly disagree' with a score of 5, 4, 3, 2, and 1, respectively for the positive statement and reverse for the negative statements.

The selection of items for the final scale was done after calculating the t-value. Twenty statements with a t-value greater than 2.03 were selected and included in the attitude scale, which included 14 positive and six negative statements (Table 6).

3.4 Standardization of the scale

The developed scale was further standardized by establishing its reliability and validity. Cronbach's alpha was found to be 0.84, which is considered as good (Table 5). The content validity of the statements was established through expert consultation during the scale development

stage.

Table 5: Cronbach's alpha value of the overall scale

Variables	Values	Internal consistency				
k	20					
ΣS_i^2	15.80	Good (0.80, 0.80)				
St ²	77.83	Good (0.80 – 0.89)				
α	0.84					

3.5 Administration of the scale

The final standardized scale which would measure the attitude of beneficiaries towards entrepreneurship development programmes consisted of 20 statements (14 positive statements and six negative statements). The scale can be administered on a five-point continuum ranging from, "strongly agree, agree, undecided, disagree and strongly disagree" with scores 5 to 1 for positive statements and vice versa for negative statements (Table 6).

Table 6: The final standardized scale to measure the attitude of beneficiaries towards entrepreneurship development programmes

Sl. No.	Statements	SA	A	UD	DA	SDA
1	EDPs consistently provide need-based technical training					
2	EDPs have significantly simplified the understanding of the agribusiness unit establishment process	3				
3	Stage-wise support through EDPs is mostly hypothetical (-)					
4	EDPs are consistently encouraging product diversification					
5	EDPs highlight the importance of secondary agriculture among individuals					
6	Assistance was provided for securing loans from the banks					
7	EDP generated awareness on various platforms to connect with angel investors					
8	Guidance was provided to entrepreneurs to flourish globally					
9	Assistance for conducting market research was greatly neglected (-)					
10	EDPs succeeded in imparting knowledge on the use of ICTs in enterprises					
11	Insufficient investment support through EDPs is diminishing its attractiveness to agripreneurs (-)					
12	The complexity of procedures disheartens the entrepreneurs (-)					
13	The transparency and fairness of the grievance redressal mechanism improved considerably					
14	EDPs improved the knowledge of intellectual property rights					
15	Offers only limited linkages with research institutions (-)					
16	EDPs are robust enough to meet the initial requisites of business establishment					
17	EDPs unfailingly provided continuous technology backstopping to the beneficiaries					
18	EDPs empowered to hire need-based skilled manpower instead of random staffing				•	
19	Strategies for real-time tracking of changing market demands are not covered through the EDPs (-)					
20	EDPs extended streamlined access to various marketing platforms					

^{*}SA-Strongly Agree, A-Agree, UD-undecided, DA-Disagree, SDA-Strongly Disagree

4. Conclusion

The results obtained indicate that the developed scale meets the requirements of reliability and validity and it can be administered on a five-point continuum ranging from 'strongly agree' to 'strongly disagree' to measure the attitude of the beneficiaries of entrepreneurship

development programmes towards such programmes. It is suggested to validate the scale in other populations to enhance its use and applicability.

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