

# The Role of Environmental and Psychological Factors in Assisting Sustainable Entrepreneurial Performance (SEP) of Women-Led Micro Firms: A Study Based in Kandy District

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**Abstract**— Women entrepreneurs have most certainly been identified for their notable towards additions the socio-economic advancement of most countries over the past decades. However, the majority of the literature on female entrepreneurs have been cantered on developed countries, and inadequate knowledge is found on women entrepreneurs in developing countries such as Sri Lanka. In accordance with bridging the said theoretical and empirical gap, this study mainly assembled a unit of analysis of women entrepreneurs in the micro-enterprise sector in the Kandy district with a sample that covered all its divisional secretariat areas. Reliability and validity were tested by carrying a pilot survey of 25 respondents. With the gain of 210 respondents on the final survey, it was found that both the main variables in study had positive relationships with Sustainable Entrepreneurial Further. Performance. opportunities for green entrepreneurship and training support did not prove any relationship, while the rest that are social perception, analytical planning, proactiveness, teamwork, government support policy, business environment, green attitude, perceived controlled behaviour, optimism, innovation, leadership and psychological factors had positive relationships with Sustainable Entrepreneurial Performance. Government, private organizations, and Non-Government Organizations (NGO) should consider necessary efforts to enhance the business talents of women with more industrial opportunities and better entrepreneurial setting in Sri Lanka. This study, thereby offers vastly to the knowledge about women entrepreneurship in a developing economy and also assists to consolidate anyone's

understanding about this subject and the scope of entrepreneurship while presenting practical implications for researchers and policymakers.

Keywords— women entrepreneurs, environmental factors, psychological factors, micro firms, sustainability

# I. INTRODUCTION

Entrepreneurship, a concept trailed among all genders worldwide, can be referred to the practice of starting new organizations or revitalizing mature organizations, particularly new businesses generally in response to identified opportunities. (Eroglu, 2011) With this eminent elaboration of entrepreneurship, it can also be mentioned that this paves a way for the previously unheard and unseen women population to voice out their opinions and strengths by engaging in the field of entrepreneurship by bringing their out entrepreneurial skills. This largely applies to women, due to the fact of evidence that women starting a business are more likely to agree with the motivation of making a difference to the world and if the sustainable development goals are to be tackled through entrepreneurship, then it is surely beneficial to this objective to get more women on board. (Bosma, 2020) Sri Lanka, about which this study was carried out being one of the developing countries in the world; it can be suggested that the country undergoes challenges of general entrepreneurship development and especially women entrepreneurship immensely due to the lack of knowledge creation, enterprise development and also technological development. Women are disproportionally

influenced by these inclinations, as they are restrained in their economic enterprises and proceed to face unemployment at twice the rate of men (6% and 3%, respectively) not withstanding reaching correspondence in school enrollment.



(Gunewardena, January 2016) Only 30% of women above the age of 15 are employed, indicating that labor force participation is as much an issue of women's economic opportunities as unemployment (Senanayake, 2015).

Different empirical studies reveal women are handicapped by religion, culture and various traditions and that more than half of the total female entrepreneurs regularly face gender related challenges environmentally and psychologically concerning operating businesses as well as expanding them. In accordance, many scholars have identified several factors that affect women entrepreneurship in different countries and supportively Frese (2009) has explored the association between psychological characteristics and performance while Mitchelmore and Rowley (2013) have investigated the link between factors of environment and business performance. This research stands out from the above-mentioned, because in reality, their focus areas were on entrepreneurs regardless of gender, in addition to the factors relating to various personal, organizational, socio-cultural, economic. environmental, and sustainable issues. Women entrepreneurs were also not found to be of concern in studies regarding sustainable entrepreneurship. Nevertheless, this study certainly highlights factors that affect the sustainable success of female entrepreneurs in small businesses, with particular reference to the Kandy District of Sri Lanka.

## A. Research Objectives

With the significant aim of bridging the gap of focus on women entrepreneurs and SEP, the following objectives are considered.

• To examine the role of environmental and psychological factors in making the sustainable entrepreneurial performance of women-led micro firms in Kandy district

• To identify the factors that increase the sustainable entrepreneurial performance of women-led micro firms.

• To identify challenges for women entrepreneurship in micro firms.

• To suggest the ways to improve the women entrepreneurship in micro firms.

B. Research Questions

The specific questions deliberately answered as a result of this study are,

• 'Do the environmental, psychological factors positively affect in assisting Sustainable Entrepreneurial Performance (SEP) of women-led micro firms?'

• What is the impact of environmental factors on SEP of women-led micro firms?

• What is the impact of psychological factors on SEP of women-led micro firms?

• What are the most significant factors among environmental and psychological factors that affect women-led micro firms?

• With the impact of environmental, psychological factors, what conditions would be brought upon the making of SEP of women-led micro firms?

# II. METHODOLOGY

This research based on the identification of the role of environmental and psychological factors on SEP of women-led micro firms entitles an employed positivism philosophy as for the consideration of a scientifically obtained sample in which the data is assembled through a field survey by a structured questionnaire with the analysis conducted by quantitative means. Moving further towards the core of the research onion as presented by Saunders & Lewis (2013), the research approach plays a significant role in carrying out a study, for which this study follows a deductive approach where relevant hypotheses were generated with the application of existing theories and where data were obtained, and current theory was tested to confirm the soundness based on actual practical occurrence evidence. Following such a research approach, this study utilizes the means of selfadministered telephoned questionnaire as it strategy of collecting the relevant data by the target respondents even amidst the challenge of the COVID-19 pandemic. This strategy was found to be beneficial as for the three prime benefits presented by Bryman (2012): the ability to maintain quality control over the entire process of data collection, the speed of data collection and cost-efficiency. This study also presents that only quantitative methods are adopted in data collection [questionnaire survey] and analysis [correlation and regression] through to take the supreme



advantage of making definite outcome those can be proven scientifically. Due to certain constraints appended to the study, specifically access to the information, lack of time, absence of required resources; the eminent mono method was chosen as the proper method to illustrate the content of the study. With the consideration of the further layers and necessities of the research onion; the study applied descriptive statistics such as mean, median, mode, standard deviation, sample error and questionnaire content made with Likert scale to analyze the assembled data. Along with the usage of descriptive statistics, the study followed a cross-sectional nature in time horizon by developing the relationships between two independent research variables and one dependent variable. As implied in the title of the research, this study accompanies the Kandy District as its population as this district represents the fourth highest population with a multi-ethnic and multi-culture population of 1,369,899 (Statistics, 2012) also, women forming the majority (52.3%) of this population. With the gathering of the data that the district secretariat of Kandy comprises of 562 women entrepreneurs as per the Women Development Officer, the sample was chosen to represent women-owned micro-scale enterprises with a capital expenditure of less than Rs. 5 million and less than 10 employees in the district, after which the companies that existed for at least three years were screened. This is because, micro-enterprises as described by the Department of Small Industries are the industries with a capital expenditure of less than Rs. 5 million, an annual turnover of Rs. 15 million or less and employing less than 10 employees. To get a reasonable sample size, Morgan's table and sample calculation with a 95% level of confidence and a 5% confidence interval was used to select a sample of 528 women entrepreneurs in these micro firms, which was occupied by stratified sampling methods.

Data gathering was carried out using selfadministered questionnaires as stated above, which constituted of 99 items categorized into 5 sections with close ended as well as Likert scaled questions. Besides this primary data gathering, the research also utilized a few main secondary data sources as reports, survey results, journal articles by (Ranasinghe, 2008) that were already published. Following this data collection, this study utilized the data analysis on the Statistical Package for Social Scientists Software to obtain the reliability and validity of the data and hence the development of the relationship between the variables.

## A. Experimental Design

The following figure represents the experimental design utilized in the study in developing relationships by serving its purpose of a conceptual framework.



Figure 1. Conceptual Framework

Source: Authors 2020

## B. Hypothoses

The following hypothesized associations were subjected to empirical testing in this study:

H1 - There is a positive relationship between social perception of the women entrepreneurs and sustainable entrepreneurial performance of women-led micro firms.

H2 - There is a positive relationship between opportunities for green entrepreneurship of the women entrepreneurs and SEP of women-led micro firms.

H3 - There is a positive relationship between training support of the women entrepreneurs and SEP of women- led micro firms.

H4 - There is a positive relationship between analytical planning of the women entrepreneurs and SEP of women- led micro firms.



H5 - There is a positive relationship between proactiveness of the women entrepreneurs and SEP of women-led micro firms.

H6 - There is a positive relationship between teamwork of the women entrepreneurs and SEP of women-led micro firms.

H7 - There is a positive relationship between government support policy of the women entrepreneurs and SEP of women-led micro firms.

H8 - There is a positive relationship between business environment of the women entrepreneurs and SEP of women-led micro firms.

H9 - There is a positive relationship between green attitudes of the women entrepreneurs and SEP of women- led micro firms.

H10 - There is a positive relationship between perceived control behavior of the women entrepreneurs and SEP of women-led micro firms.

H11 - There is a positive relationship between optimism of the women entrepreneurs and SEP of women-led micro firms.

H12 - There is a positive relationship between innovation of the women entrepreneurs and SEP of women-led micro firms.

H13 - There is a positive relationship between leadership of the women entrepreneurs and SEP of women-led micro firms.

H14 - There is a positive relationship between environment factors of the women entrepreneurs and SEP of women-led micro firms.

H15 - There is a positive relationship between psychological factors of the women entrepreneurs and SEP of women-led micro firms.

## **III. DISCUSSION AND ANALYSIS**

## A. Results

This chapter displays and analyzes the data obtained and discusses it accordingly to achieve the research objectives. Data were collected from 210 respondents in 20 divisional secretariat areas through a self-administrated telephone survey. Other than the ultimate survey, a pilot survey was carried to measure validity and reliability.

| Variable                                    | Item | Initial<br>Cronbach's<br>Alpha value | Removed items | Cronbach's<br>Alpha value<br>if items<br>removed |
|---|------|--------------------------------------|---------------|--|
| Social perception                           | SP   | 0.716                                |               |  |
| Opportunities for<br>green<br>entrepreneurs | OGE  | 0.980                                |               |  |
| Training support                            | TS   | 0.988                                |               |  |
| Analytical<br>planning                      | AP   | 0.871                                |               |  |
| Proactive                                   | PR   | 0.689                                |               |  |
| Teamwork                                    | TE   | 0.996                                |               |  |
| Government<br>support policy                | GP   | 0.854                                |               |  |
| Business<br>environment                     | BE   | 0.758                                |               |  |
| Green attitudes                             | GA   | 0.591                                | GA item 2     | 0.708  |
| Perceived<br>behavioral control             | PBC  | 0.722                                |               |  |
| Optimism                                    | OS   | 0.601                                | OS item 5     | 0.734  |
| Innovation                                  | INV  | 0.885                                |               |  |
| Leadership                                  | LE   | 0.933                                |               |  |
| SEP   | SEP  | 0.798                                |               |  |

Figure 2. Reliability Test

#### Source: Authors 2020

The Cronhach's Alpha values of all the question groups are greater than 0.7 except green attitudes and optimism groups. It can be said that these questions do not have a good internal consistency and not reliable.

| KMO                           | and Bartlett's Test     |          |
|-------------------------------|-------------------------|----------|
| Kaiser-Meyer-Olkin Measure    | e of Sampling Adequacy. | .908     |
| Bartlett's Test of Sphericity | Approx. Chi-Square      | 2845.931 |
|                               | df                      | 136      |
|                               | Sig.                    | .000     |

#### Figure 3. KMO and Bartlett's Test

#### Source: Constructed 2020

According to the figure 3, outputs indicate that KMO sampling adequacy value is 0.908 where the KMO value for this study surpasses the suggested value of KMO, therefore the factor analysis was headed further. Following which it shows that the significant value of p is less than 0.05. Hence, it is presumed that a significant correlation exists between the variables.

|                      | Ν   | Mean   | Std. Deviation | Variance |
|----------------------|-----|--------|----------------|----------|
| Social perception    | 210 | 3.4746 | .70665         | .499     |
| opportunities        | 210 | 2.6780 | .76183         | .580     |
| Training support     | 210 | 1.7714 | .65002         | .423     |
| Analytical           | 210 | 4.0698 | .92424         | .854     |
| Proactive            | 210 | 4.4214 | .52488         | .275     |
| Teamwork             | 210 | 1.9722 | 1.32559        | 1.757    |
| Government           | 210 | 2.9848 | .76986         | .593     |
| Business environment | 210 | 3.0369 | .90757         | .824     |
| Gratitude            | 210 | 4.3876 | .54994         | .302     |
| PB control           | 210 | 3.9571 | .68361         | .467     |
| Optimism             | 210 | 4.1619 | .57038         | .325     |
| Innovation           | 210 | 2.8000 | 1.29777        | 1.684    |
| Leadership           | 210 | 2.8000 | 1.29777        | 1.684    |
| Performance          | 210 | 3.4017 | .65574         | .430     |
| Valid N (list wise)  | 210 |        |                |          |

Figure 4. Descriptive Statistics of Variables

Source: Authors 2020



All the variables were highly important when considering the environment and psychological factors of women entrepreneurs. However, opportunities for green entrepreneurs, training support, teamwork, government support, innovation and leadership were at a lower level as shown on figure 4.

According to figure 5, it was found that almost all the connections were positive other than two relationships. Optimism was a positive but weak relationship. On the other hand, the correlation between the independent variable of training support with the dependent variable of SEP was not significant. Hence, a relationship between these variables was not identified.

| Variable                                       | Correlation<br>coefficient | Significance level | Relationship  |
|--|----------------------------|--------------------|---|
| Social perception                              | 0.527                      | 0.000              | Significant, positive,<br>moderate level strength<br>relationship   |
| Opportunities for<br>green<br>entrepreneurship | 0.145                      | 0.036              | Significant, no<br>relationship                                     |
| Training support                               | 0.005                      | 0.938              | Not significant,<br>norelationship                                  |
| Analytical planning                            | 0.836                      | 0.000              | Significant, very strong,<br>positive                               |
| Pro activeness                                 | 0.691                      | 0.000              | Significant, positive,<br>moderate level strength<br>relationship   |
| Teamwork                                       | 0.447                      | 0.000              | Significant, positive,<br>moderate level strength<br>relationship   |
| Government support<br>policy                   | 0.521                      | 0.000              | Significant,<br>positive, moderate<br>levelstrength<br>relationship |
| Business<br>environment                        | 0.787                      | 0.000              | Significant, strong, positive                                       |
| Green attitudes                                | 0.832                      | 0.000              | Significant, very strong,<br>positive                               |
| Perceived behavior<br>control                  | 0.817                      | 0.000              | Significant, very strong,<br>positive                               |
| Optimism                                       | 0.325                      | 0.000              | Significant, weak,<br>positive                                      |
| Innovation                                     | 0.788                      | 0.000              | Significant, strong, positive                                       |
| Leadership                                     | 0.788                      | 0.000              | Significant,<br>strong,<br>positive                                 |

Figure 5. Correlations of Sub-Variables

#### Source: Authors 2020

| Variable                 | Correlation<br>coefficient | Relationship                        | Status of the<br>hypothesis testing |
|--------------------------|----------------------------|-------------------------------------|-------------------------------------|
| Environmental<br>factors | 0.844                      | Significant very<br>strong positive | Reject null<br>hypothesis           |
| Psychological factors    | 0.854                      | Significant very<br>strong positive | Reject null<br>hypothesis           |

#### Figure 6. Correlations of Main Variables

#### Source: Authors 2020

### Figure 7. Regresion Model

## Source: Authors 2020

| re Std. Error of the Estimate<br>.36245 |
|---|
| .36245                                  |
|   |
| .31618                                  |
| .28864                                  |
| .27585                                  |
| .26774                                  |
| .26118                                  |
|   |
|   |
|   |

c. Predictors: (Constant), analytical, innovation, PB control

d. Predictors: (Constant), analytical, innovation, PB control, opportunities

e. Predictors: (Constant), analytical, innovation, PB control, opportunities, business environment f. Predictors: (Constant), analytical, innovation, PB control, opportunities, business

environment, social perception

g. Dependent Variable: performance

The stepwise regression analysis has suggested six models which were significant as shown in the above figure. Sixth model has been selected out of these models because it gives the highest adjusted R2 value (.841). Accordingly, ANOVA table of the regression model is shown below. Since the p value of the model was less than 0.05, it can be said that this model is significant with 95% level of confidence.

|   |            |                | ANOVA | a           |         |      |
|---|------------|----------------|-------|-------------|---------|------|
|   | Model      | Sum of Squares | Df    | Mean Square | F       | Sig. |
| 6 | Regression | 76.022         | 6     | 12.670      | 185.740 | .000 |
|   | Residual   | 13.848         | 203   | .068        |         |      |
|   | Total      | 89.870         | 209   |             |         |      |

a. Dependent Variable: performance

b. Predictors: (Constant), analytical, innovation, PB control, opportunities, business environment, social perception

Figure 8. ANOVA Table of the Regression Model

#### Source: Authors 2020

|                      | Unstandardized<br>Coefficients |            | Standardized<br>Coefficients |       |      |
|----------------------|--------------------------------|------------|------------------------------|-------|------|
| Model                | в                              | Std. Error | Beta                         | t     | Sig. |
| (Constant)           | .315                           | .151       |                              | 2.089 | .038 |
| analytical           | .181                           | .040       | .255                         | 4.559 | .000 |
| innovation           | .162                           | .021       | .322                         | 7.815 | .000 |
| PB control           | .214                           | .044       | .223                         | 4.831 | .000 |
| opportunities        | .118                           | .025       | .137                         | 4.648 | .000 |
| Business environment | .125                           | .037       | .173                         | 3.381 | .001 |
| Social perception    | .102                           | .030       | .110                         | 3.373 | .001 |

a. Dependent Variable: performance

#### Figure 9. Coefficients

#### Source: Authors 2020

Sustainable Entrepreneurial Performance = 0.315 + 0.255\* X1 + 0.322\* X2 + 0.223\* X3 + 0.137\* X4 + 0.173\* X5 + 0.110\*X6

- X1 Analytical planning
- X2 Innovation
- X3 Personal behavior control
- X4 Opportunities for green entrepreneurship
- X5 Business environment
- X6 Social perception



Among thirteen variables, these six variables were identified as most influential, significant, and predictable factors of business performance.

|   |             |      | standardized Coeff<br>andardized Coeffic |      |        |      |
|---|-------------|------|--|------|--------|------|
|   | Model       | в    | Std. Error                               |      | t      | Sig. |
| 2 | (Constant)  | .034 | .121                                     | Beta | .282   | .018 |
|   | psychology  | .448 | .043                                     | .511 | 10.377 | .000 |
|   | environment | .594 | .066                                     | .444 | 9.022  | .000 |

#### Figure 10. Coefficients

#### Source: Constructed 2020

According to above table the model is,

Sustainable Entrepreneurial Performance = 0.034 + 0.511\* X1 + 0.444\* X2

- X1 Psychological factors
- X2 Environmental factors

Accordingly, psychological factors and environmental factors were positively related, significant, and predictable factors to the sustainable entrepreneurial performance.

#### B. Discussion

In the light of all views, women and entrepreneurship can be perceived as an inseparable connection. Therefore, the authors subsequently worked on identifying the effect of environmental and psychological factors towards SEP. This study addresses the background of the aspects in concern and how to theorize the research problem and transform towards operationalization with the knowledge aggregated from the background study. The methodology was presented for the way to accomplish the research objectives. The data collection instrument was a self- administered, questionnaire conducted by telephone. The unit of analysis was women entrepreneur owned micro firm and the sample was drawn using a stratified and simple random sampling technique. Data were collected from 210 entrepreneurs with the help of Kandy district secretariat, and it is a non-contrived setting.

A pilot survey was done to ensure the reliability and validity of the study then proceeded to the final survey of the study. Data were collected from the 210 respondents achieving 92% of response rate over 20 divisional secretariats. Before commencing the analysis, data were screened for missing data and outliers as case and variable wise. Thereby 387 cases were selected to process, and analysis was done in the four ways of univariate, bivariate, multivariate and qualitative analysis. Out of 13 subvariables, opportunities for green entrepreneurship and training support had no relationship, while all the other independent variables had positive relationships with sustainable entrepreneurial performance. Regression analysis was carried out to find the most influencing and predictable variables on SEP. Furthermore, the findings of this study along with the former and foreign literature were discussed. Most of the relationships were similar to the literature other than opportunities for green entrepreneurship and training support with business performance.

#### **IV. CONCLUSION**

Female entrepreneurship has attracted increasing attention in recent years in the light of concrete evidence of its importance for economic growth and development. With the study whether the environmental and psychological factors of women entrepreneurs positively affect the SEP of micro firms or not; all the psychological factors were found to be positive other than the two variables in environmental factors as opportunities for green entrepreneurship and training support. Hence, it can be concluded that environmental and psychological factors of women entrepreneurs positively affect the SEP of women- owned micro firms in Kandy district Sri Lanka. When considering the environmental factors; social perception, proactiveness, teamwork, government support and business environment showed a moderately positive correlation while analytical planning had a high positive correlation with SEP, allowing conclusion that these mentioned variables positively affect the SEP. Since opportunities for green production and support from private organizations in Sri Lanka is lower, it can be concluded that these two variables have no relationship towards SEP. As for the psychological factors, green attitudes, PBC, innovation and leadership had a strong positive relationship while optimism had a weak positive relationship with SEP. In conclusion, among the thirteen variables (under the two main variables), six variables were identified as most influential, significant, and predictable factors of SEP; social perception, business environment, PBC, innovation and analytical planning. Hence, it can be concluded that SEP can be highly facilitated by increasing units of



those variables. The primary objective of this study being to identify and present an understanding of Sri Lankan women entrepreneurs in microenterprises between influencing factors and SEP while trying to give knowledge of women's entrepreneurship in a context of developing countries, especially Sri Lanka, is thereby fulfilled as in developing countries particularly Sri Lanka, there has been very little research into women's entrepreneurship and this study attempts to fill this gap in the literature.

## A. Limitations of the Study

There are considerably a few limitations in this study which opens avenues for additional research. Due to the practical limitations to perform, the researchers have only considered women entrepreneurs who are above 18 years of age for the study with the limitation to the Kandy District, Sri-Lanka. This comprehensive study, though meticulously carried out, faced quite a few difficulties due to the inability of approaching the geographical area considered, as for the prevailing pandemic situation. This led to the collection of data to be carried out through self-administrated telephone questionnaires, which provided us with the essentials in order to ensure the objectives of the study were met and questions were answered yet would have been enhanced if for the ability of physical approach towards the geographical area of study.

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