

CHAPTER 5

RELATIONSHIP BETWEEN WOMEN ENTREPRENEURSHIP AND WOMEN EMPOWERMENT

Entrepreneurship plays a crucial role in improving the status of women throughout society. It significantly adds to the lives of women to a considerable degree. There is a growing trend among women to engage in entrepreneurship as a means of fostering their economic advancement. The economic advancement of women has facilitated their empowerment in various dimensions, including social, personal, and political/legal domains. Women are able to exert more influence over the decision-making processes within their families and society, thereby enhancing their mobility and becoming more knowledgeable about the rights bestowed upon them by the government. Entrepreneurship plays a crucial role in promoting women's empowerment across various domains, including social, economic, personal, and political/legal spheres. There exists a positive correlation between women's engagement in entrepreneurship and their empowerment. The entrance of women into the field of entrepreneurship and their subsequent establishment in this domain leads to their empowerment on economic, social, and personal levels. It empowers women to exercise agency in their professional and domestic spheres, fostering autonomy, mobility, and self-sufficiency. This chapter explores the relationship between women's entrepreneurs and women's empowerment.

5.1 ASSESSMENT OF WOMEN EMPOWERMENT

Women empowerment is a qualitative variable which cannot be quantitatively measured. Hence in quantifying the qualitative variable namely women empowerment, scaling technique is employed. By employing scaling technique and consolidating the scores in a systematic way women empowerment is measured. Women empowerment measures the empowerment of the women entrepreneurs in the seven major categories of

women empowerment indicators. They are Economic level indicators, Social level indicators, Political level indicators, Government level indicators, Legal level indicators, Professional level indicators and Personal level indicators. In each of the seven categories of women empowerment indicators are asked. There are 38 questions asked under seven of the above categories

For each level of indicators the empowerment of women entrepreneurs is assessed at five levels. They are very high, high, moderate, low and very low. The scoring pattern of the women empowerment is given in table 5.1

Table 5.1:- Women Empowerment Scores

| Sl. No | Women Empowerment | Sores |
|--------|-------------------|-------|
| 1 | Very High | 5 |
| 2 | High | 4 |
| 3 | Moderate | 3 |
| 4 | Low | 2 |
| 5 | Very Low | 1 |

Table 3.1 shows women empowerment scores. The table indicates the scoring rates as ‘5’ scores for very high, ‘4’ score for high, ‘3’ score for moderate, ‘2’ score for low and ‘1’ score for very low. Using this scoring pattern women empowerment is assessed.

5.2 YARDSTICKS OF EMPOWERMENT

There is no standard scale to measure women's empowerment. In order to measure women's empowerment, various indicators are developed. Yardsticks have been used to assess women empowerment through entrepreneurship in Kokrajhar district of BTR Assam. Attempt has been made to measure women empowerment making use of, the various dimensions of women empowerment indicators such as quantitative and qualitative variables. Quantitative variables are savings, level of income, development of infrastructure, forming a number of Self Help Groups, level of education, physical mobility, running social institutions, receiving financial assistance from government, undertaking government projects and the like. The qualitative variables are knowledge, social awareness, relationship with family and society, health and sanitation, leadership quality, problems solving skill, team spirit and the like. The various dimensions of women empowerment indicators are consolidated in the scores presented for various dimensions of women empowerment indicators.

The relationship between independent variables (socio economic variables) and dependent variable (Empowerment) were analyzed through Chi-Square Analysis. The independent variables such as age, religion, community, income, type of family, occupation, nature of business, nature of organization and years of experience and dependent variables such as Economic level indicators, Social level indicators, Political level indicators, Legal level indicators, Professional level indicators and Personal level indicators

The following statistical tools were used in the study to fulfill the objectives of the study.

5.2.1 Empowerment Index

An Empowerment index was developed to find out the level of empowerment of women entrepreneurs. Weighted score formula was considered in developing the index and by various dimensions of empowerment are also considered.

The formula of Empowerment Index is mentioned below.

$$\text{Empowerment Index} = \frac{\text{Weighted Score}}{\text{Maximum Score}} \times 100$$

$$\text{Weighted Score} = 5 \times VH + 4 \times H + 3 \times M + 2 \times L + 1 \times VL$$

(*VH=Very High, H=High, M=Moderate, L=Low, VL=Very Low*)

$$\text{Maximum Score} = \text{Total respondents} \times 5$$

Based on empowerment index percentages, the range is prepared to differentiate the level of empowerment from one another. The empowerment level has been categorized as:

Table 5.2:- Empowerment Index Range (%) and Empowerment Level

| Range (Percentage) | Empowerment Level |
|---------------------------|--------------------------|
| 0% - 25% | Very low |
| 25% - 50% | Low |
| 50%-75% | High |
| 75%-100% | Very High |

5.3 DIMENSIONS AND LEVEL OF WOMEN EMPOWERMENT

The concept of women empowerment has been analyzed in different dimensions which are classified under seven major categories. The seven dimensions of women empowerment are economic level indicators, social level indicators, political level indicators, government level indicators, professional level indicators, legal level indicators and personal level indicators. In order to measure the women entrepreneurs' empowerment, various dimensions of scores are consolidated and presented in the table 5.3

Table No 5.3:- Dimensions and Level of Empowerment of Women Entrepreneurs

| Sl No | Dimensions | Very High | High | Mode rate | Low | Very Low | Weighted Value | % | Empowerment level |
|-------|---------------------|-----------|------|-----------|------|----------|----------------|-------|-------------------|
| 1 | Economic Level | 190 | 258 | 320 | 204 | 128 | 3478 | 63.24 | High |
| 2 | Social Level | 378 | 368 | 329 | 150 | 95 | 4744 | 71.88 | High |
| 3 | Political Level | 310 | 280 | 327 | 249 | 154 | 4303 | 78.23 | High |
| 4 | Government Level | 212 | 236 | 294 | 213 | 145 | 3463 | 62.96 | High |
| 5 | Professional Level | 424 | 372 | 319 | 129 | 76 | 4899 | 74.23 | High |
| 6 | Legal Level | 85 | 98 | 165 | 128 | 74 | 3382 | 61.49 | High |
| 7 | Personal Level | 260 | 250 | 263 | 214 | 113 | 3630 | 66 | High |
| 8 | Overall Empowerment | 1979 | 1884 | 2024 | 1332 | 811 | 28724 | 68.29 | High |

Source-Field Survey

Explanation-Table 5.3 reveals that selected women entrepreneurs have empowerment index range of above 50% in all dimensions which signifies that select women entrepreneurs have high level of empowerment level in all dimensions of economic level, social level and political level, government level, professional level, legal level and personal level.

It can be inferred from the table 5.3 that selected women entrepreneurs are highly empowered in all seven dimensions of economic level, social level and political level, government level, professional level, legal level and personal level.

5.3.1 Women Empowerment in Economic Level Indicators

The Economic level indicators are further classified into five different sub variables such as control over income, purchasing power (business use), purchasing power (personal use), bank credit worthiness and savings level. The variables selected to measure the economic level indicators empowerment index are represented in the Table 5.4. with the help of Likert scale score and weighted value and using empowerment index formula mentioned in point 5.2.1 and table 5.2

Table 5.4:- Empowerment Indexes of women Entrepreneurs based on Economic indicators

| Sl No | Economic indicator | Very High | High | Moderate | Low | Very Low | Weighted Value | % | Empowerment index |
|-------|-------------------------------------|-----------|------|----------|-----|----------|----------------|-------|-------------------|
| 1 | Control Over income | 64 | 36 | 60 | 42 | 18 | 746 | 67.82 | High |
| 2 | Purchasing power (business purpose) | 54 | 104 | 32 | 18 | 12 | 830 | 75.45 | Very High |
| 3 | Purchasing power(personal use) | 30 | 56 | 88 | 26 | 20 | 710 | 64.55 | High |
| 4 | Bank credit worthiness | 20 | 26 | 48 | 82 | 44 | 556 | 50.54 | High |
| 5 | Savings level | 22 | 36 | 92 | 36 | 34 | 636 | 57.82 | High |
| 6 | Total | 190 | 258 | 320 | 204 | 128 | 3478 | 63.24 | High |

Source- Field Survey

Explanation - The empowerment index table no 5.4 shows the level of empowerment index of women entrepreneurs on economic indicator. It is revealed from the above empowerment index that women entrepreneurs empowerment score is above 50% in all

variables of economic level indicators which means empowerment level of selected women entrepreneurs are high in all economic indicators viz in control over income, empowerment on purchasing power for personal use, bank credit worthiness and savings level. The women entrepreneurs have very high empowerment index in purchasing power for business purpose.

Thus, it can be inferred from the above table that total of all the economic variable are highly economically empowered.

5.3.2 Women Empowerment in Social Level Indicators

The social level indicators are further classified into five different sub variables such as social participation in local institutions, social decision making, freedom to visit friend/relatives places, respect in society, respect in family, voice against social violence. The variables selected to measure the social level indicators are represented in the Table 5.5 with the help of Likert's scale score and weighted value and using empowerment index formula mentioned in point 5.2.1 and table 5.2

Table No 5.5:- Empowerment Indexes of women Entrepreneurs based on Social indicators

| Sl No | Social indicator | Very High | High | Moderate | Low | Very Low | Weighted Value | % | Empowerment level |
|-------|---|-----------|------|----------|-----|----------|----------------|-------|-------------------|
| 1 | Social participation in local institution | 50 | 72 | 64 | 20 | 14 | 784 | 71.27 | High |
| 2 | Social decision making power | 58 | 62 | 56 | 32 | 12 | 782 | 71.09 | High |
| 3 | Freedom to visit friends or relatives place | 70 | 62 | 58 | 22 | 8 | 824 | 74.91 | High |
| 4 | Respect in society | 56 | 66 | 68 | 18 | 12 | 796 | 72.36 | High |
| 5 | Respect in family | 74 | 56 | 42 | 26 | 22 | 794 | 72.18 | High |
| 6 | Voice against social Violence | 70 | 50 | 41 | 32 | 27 | 764 | 69.45 | High |
| 7 | Total | 378 | 368 | 329 | 150 | 95 | 4744 | 71.88 | High |

Source-Field Survey

The empowerment index table 5.5 shows the level of empowerment index of women entrepreneurs on social indicator. It is revealed from the above empowerment index table that women entrepreneurs empowerment score is above 50% in all variables of social level indicators which means empowerment level of selected women entrepreneurs are high in all social indicators viz. social participation in local institution, social decision making power, freedom to visit friends or relatives, respect in society and respect in family.

Thus, it can be inferred from the above explanation that all the women entrepreneurs selected for study are socially empowered.

5.3.3 Women Empowerment in Political Level Indicators

Political indicators are used to measure whether women entrepreneurs are able to enter politics and occupy various positions in political field like MLA, MP, etc., This political level indicators help measure the leadership quality of the women entrepreneurs. If the women entrepreneurs have political knowledge, they can easily manage business problems like marketing, finance etc. The following factors are used to measure women entrepreneur's political skills. The 'political level indicators' variable is further classified into five different sub variables such as awareness on voting rights, awareness on right to Equality, Participating in political activities participation in local council, participating in election as Councilors, M.L.As, M.Ps, etc., conducting government programs, undertaking Government projects and developing our nation's economy through participating in the political process. The variables selected to measure the 'political level indicators' are represented in the Table 5.6 with the help of Likert's scale score and weighted value and using empowerment index formula mentioned in point 5.2.1 and table 5.2

Table No 5.6:- Empowerment level of women Entrepreneurs on Political indicators

| Sl No | Political indicator | Very High | High | Moderate | Low | Very Low | Weighted Value | % | Level of Empowerment |
|-------|---|-----------|------|----------|-----|----------|----------------|-------|----------------------|
| 1 | Awareness on Voting right | 98 | 60 | 40 | 12 | 10 | 884 | 80.36 | Very High |
| 2 | Awareness on right to Equality | 32 | 38 | 74 | 32 | 44 | 642 | 58.36 | High |
| 3 | Participating in local council election | 22 | 48 | 72 | 58 | 20 | 654 | 59.45 | High |
| 4 | Participating in MLA.M.P election | 26 | 44 | 62 | 66 | 22 | 646 | 58.72 | High |
| 5 | Conducting Government Programmes | 52 | 40 | 36 | 52 | 40 | 672 | 61.09 | High |
| 6 | Participate in Political activities | 80 | 50 | 43 | 29 | 18 | 805 | 73.18 | High |
| 6 | Total | 310 | 280 | 327 | 249 | 154 | 4303 | 78.23 | High |

Source-Field Survey

Explanation-The empowerment index table no 5.6 shows the level of empowerment index of women entrepreneurs on Political indicator. It is revealed from the above empowerment index that women entrepreneurs empowerment score is above 50% in all variables of political level indicators which means empowerment level of selected women entrepreneurs are high in all political indicators viz. very highly empowered in awareness on voting right, moderately empowered in awareness on awareness on right to equality, participating in political local council, MLA, M.P and conducting government programmes.

Thus, it can be inferred that women entrepreneurs are highly empowered in political level and most of women entrepreneurs have proper awareness on their voting rights and on right to equality, they are participating in political level activities and also conducts government programmes.

5.3.4. Women Empowerment in Government Level Indicators

The government level indicators are further classified into five different sub-variables such as participating in government programs, participating in government training, receiving government subsidies, getting employment opportunities and financial assistance from government. The variables selected to measure the government level indicators are represented in the Table 5.7 with the help of Likert's scale score and weighted value and using empowerment index formula mentioned in point 5.2.1 and table 5.2

Table 5.7:-Empowerment level of women Entrepreneurs in Government Level Indicators

| Sl No | Government level indicators | Very High | High | Moderate | Low | Very Low | Weighted Value | % | Level of Empowerment |
|-------|--------------------------------------|-----------|------|----------|-----|----------|----------------|-------|----------------------|
| 1 | Participation in government programs | 72 | 60 | 50 | 28 | 10 | 816 | 74.18 | High |
| 2 | Receiving Government subsidies | 32 | 38 | 74 | 32 | 44 | 642 | 58.36 | High |
| 3 | Participation in government training | 22 | 48 | 72 | 58 | 20 | 654 | 59.45 | High |
| 4 | Getting employment opportunity | 37 | 40 | 55 | 52 | 36 | 650 | 59.10 | High |
| 5 | Financial assistance from government | 49 | 50 | 43 | 43 | 35 | 695 | 63.18 | High |
| 6 | Total | 212 | 236 | 294 | 213 | 145 | 3463 | 62.96 | High |

Source- Field Survey

Explanation- The empowerment index table no 5.7 shows the level of empowerment index of women entrepreneurs on government indicator. It is revealed from the above empowerment index that women entrepreneurs empowerment score is above 50% in all variables of government level indicators which means empowerment level of selected women entrepreneurs are high in all government indicator viz. participation in government programs, participation in government training, getting employment opportunity, financial assistance from government.

Thus, it can be inferred from the above explanation that all the women entrepreneurs selected for study are highly empowered under government level indicator.

5.3.5 Women Empowerment in Professional Level Indicators

The Professional level indicators are further classified into six different sub variable such as measure the Professional level indicators are given in Table 5.8. Special traits in business, decision making skill, application knowledge in business, leadership qualities, team spirit and solution in critical situation. The variables selected to measure the Professional level indicators are represented in the Table 5.8 with the help of Likert's scale score and weighted value and using empowerment index formula mentioned in point 5.2.1 and table 5.2

Table 5.8:- Empowerment level of women Entrepreneurs on Professional level Indicator

| Sl No | Professional Level indicator | Very High | High | Moderate | Low | Very Low | Weighted Value | % | Empowerment level |
|-------|--------------------------------------|-----------|------|----------|-----|----------|----------------|-------|-------------------|
| 1 | Special traits in business | 72 | 50 | 64 | 20 | 14 | 806 | 73.27 | High |
| 2 | Decision making skill | 65 | 70 | 56 | 17 | 12 | 819 | 74.45 | High |
| 3 | Application of Knowledge in business | 70 | 62 | 58 | 22 | 8 | 824 | 74.91 | High |
| 4 | Leadership Quality | 66 | 76 | 58 | 12 | 8 | 840 | 76.36 | Very High |
| 5 | Team Spirit | 78 | 54 | 42 | 26 | 20 | 804 | 73.10 | High |
| 6 | Solution in critical situation | 73 | 60 | 41 | 32 | 14 | 806 | 73.28 | High |
| 7 | Total | 424 | 372 | 319 | 129 | 76 | 4899 | 74.23 | High |

Source-Field Survey

Explanation- The empowerment index table no 5.8 shows the level of empowerment index of women entrepreneurs on Professional indicator. It is revealed from the above empowerment index that women entrepreneurs empowerment score is above 50% in all variables of professional level indicators which means empowerment level of selected women entrepreneurs are high in all professional indicators viz, special traits in business, decision making skill, and application knowledge in business, leadership qualities, team spirit and solution in critical situation

Thus, it can be inferred from the above explanation that all the women entrepreneurs selected for study are highly empowered under Professional level indicator.

5.3.6 Women Empowerment in Legal Level Indicators

The government has been providing different sorts of protection to women. Moreover from the legislation point of view, women have many more laws to ensure their safety and should be safer. The Factory Act, 1948 enhances women empowerment by providing women with equal right as men. Socially, economically, politically and professionally, there are many laws to ensure the safety and equality of women. However, ensuring the safety of women legally is socially inefficient and also leads to greater gender inequality. Within the frame work of a democratic policy, our law development policies, plans and programmes have aimed at women's advancement in different spheres. In recent years, the empowerment of women has been recognized as the central issue in determining the status of women. The National Commission for Women (NCW) was set up by an Act of Parliament in 1990 to safeguard the 185 rights and legal entitlements of women. The 73rd and 74th Amendments (1993) to the Constitution of India have provided for reservation of seats in the local bodies of Panchayat and Municipalities for women, laying a strong foundation for their participation in decision making at the local levels of polity.

The researcher has framed the following five variables to study the legal level indicators of women and their role in women empowerment. They are Receiving legal rights, Equal

rights with man, appeal against violence, dowry, sexual harassment etc., equal partition of family properties, legal power related to justice, prosecutors, lawyers, etc. The variables selected to measure the legal level indicators are represented in the Table 5.9 with the help of Likert's scale score and weighted value and using empowerment index formula mentioned in point 5.2.1 and table 5.2

Table 5.9:- Empowerment level of women Entrepreneurs on Legal level Indicator

| Sl No | Legal Level indicator | Very High | High | Moderate | Low | Very Low | Weighted Value | % | Level of Empowerment |
|-------|--|-----------|------|----------|-----|----------|----------------|-------|----------------------|
| 1 | Receiving legal rights | 44 | 47 | 60 | 42 | 27 | 699 | 63.55 | High |
| 2 | Equal rights with man | 69 | 45 | 40 | 28 | 38 | 739 | 67.18 | High |
| 3 | Appeal against violence, dowry harassment, sexual, etc., | 50 | 76 | 44 | 26 | 24 | 762 | 69.27 | High |
| 4 | Equal participation of family properties | 23 | 26 | 38 | 100 | 33 | 566 | 51.45 | High |
| 5 | Legal power related to justice, prosecutors, lawyers, etc. | 30 | 26 | 70 | 58 | 36 | 616 | 56% | High |
| 6 | Total | 85 | 98 | 165 | 128 | 74 | 3382 | 61.49 | High |

Source-Field Survey

Explanation-The empowerment index table no 5.9 shows the level of empowerment index of women entrepreneurs on Legal Level indicator. It is revealed from the above empowerment index that women entrepreneurs empowerment score is above 50% in all variables of legal level indicators which means empowerment level of selected women entrepreneurs are high in all legal indicators viz, receiving legal rights, equal rights with men, appeal against violence, Equal participation of family properties, Legal power related to justice, prosecutors, lawyers, etc.

Thus, it can be inferred from the above explanation that all the women entrepreneurs selected for study are highly empowered under Legal level indicator.

5.3.7 Women Empowerment in Personal Level Indicators

The ‘Personal level indicators’ variable is further classified into five different sub variables such as physical mobility (come out from four walls), family bond& relationship, health and Sanitation, achieved self-confidence, perceived mental satisfaction. The variables selected to measure the ‘Personal level indicators’ The variables selected to measure the Personal level indicators are represented in the Table 5.10 with the help of Likert’s scale score and weighted value and using empowerment index formula mentioned in point 5.2.1 and table 5.2

Table 5.10:-Empowerment level of women Entrepreneurs on Personal level Indicator

| Sl No | Personal level indicator | Very High | High | Moderate | Low | Very Low | Weighted score | % | Empowerment index |
|-------|--|-----------|------|----------|-----|----------|----------------|-------|-------------------|
| 1 | Physical Mobility (come out from four walls) | 47 | 46 | 60 | 40 | 27 | 706 | 64.18 | High |
| 2 | Family bond& relationship | 50 | 49 | 56 | 39 | 26 | 718 | 65.27 | High |
| 3 | Health and Sanitation | 47 | 48 | 49 | 45 | 31 | 695 | 63.18 | High |
| 4 | Achieved Self-Confidence | 56 | 53 | 51 | 46 | 14 | 751 | 68.27 | High |
| 5 | Perceived Mental Satisfaction | 60 | 54 | 47 | 44 | 15 | 760 | 69.10 | High |
| 6 | Total | 260 | 250 | 263 | 214 | 113 | 3630 | 66 | High |

Source-Field Survey

Explanation-The empowerment index table no 5.10 shows the level of empowerment index of women entrepreneurs on Personal Level indicator. It is revealed from the above empowerment index that women entrepreneurs empowerment score is above 50% in all variables of personal level indicators which means empowerment level of selected women entrepreneurs are high in all personal indicators viz, Physical Mobility(come out from four

walls), family bond& relationship, Health and Sanitation, Achieving Self-Confidence, Perceiving Mental Satisfaction.

Thus, it can be inferred from the above explanation that all the women entrepreneurs selected for study are highly empowered under Personal level indicator.

5.4 CHI-SQUARE TESTS

In the next section this analysis, an attempt has been made to observe the relationship between the age, education level, marital status, family type, type of entrepreneurs, incomes of the women entrepreneurs and the empowerment level of various indicator with the help of the Chi-Square Test. Chi-Square Test has been conducted to see the significant relationship between the two phenomena as stated in the above sentence.

5.4.1 Association between the marital status and Empowerment level of women entrepreneurs

H₀1=There is no significant relationship between marital status and empowerment level of women entrepreneur

Table 5.11:-Marital status and total empowerment

| Marital Status | Empowerment | | | | Total | |
|----------------|-------------|-----|------|------|-------|-----|
| | Moderate | | High | | | |
| | No | % | No | % | No | % |
| Married | 12 | 7.4 | 151 | 92.6 | 163 | 100 |
| Unmarried | 3 | 5.3 | 54 | 94,7 | 57 | 100 |

Source-Field Survey

***Since the expected value is less than 5 Empowerment level is grouped only in 2 categories**

Table No 5.12:-Chi-Square Test

| | Value | Df | Asymp. Sig. (2-sided) |
|------------------------------|-------|----|-----------------------|
| Pearson Chi-Square | 3.623 | 1 | 0.57 |
| Likelihood Ratio | 4.355 | 1 | 0.37 |
| Linear-by-Linear Association | 3.607 | 1 | 0.58 |
| N of Valid Cases | 220 | | |

- a. 1 cell (25.0%) has expected count less than 5. The minimum expected count is 3.86.
- b. Computed only for a 2x2 table

Explanation- The Chi-Square test results at 1 degree of freedom the chi-square value is 3.623 and the significant value i.e P- value is 0.57 which is greater than the standard significant value of 0.05 so the null hypothesis is accepted. Therefore, we can conclude that there is no significant relationship between marital status and empowerment level of women entrepreneurs.

5.3.2 Association between Family Type and Women Empowerment Level.

H₀=There is no significant relationship between Family Type and empowerment level of women entrepreneurs

Table 5.13:- Family Type and total women empowerment level

| Family Type | Empowerment | | | | Total | |
|----------------|-------------|-----|------|------|-------|-----|
| | Moderate | | High | | | |
| | No | % | No | % | No | % |
| Joint Family | 7 | 9.1 | 70 | 90.9 | 77 | 100 |
| Nuclear Family | 8 | 5.6 | 135 | 94.4 | 143 | 100 |

Source-Field Survey

Table 5.14:- Table Chi Square Test

| Particulars | Value | Df | Asymp. Sig. (2-sided) |
|------------------------------|-------|----|-----------------------|
| Pearson Chi-Square | 0.963 | 1 | 0.326 |
| Likelihood Ratio | 0.928 | 1 | 0.355 |
| Linear-by-Linear Association | 0.959 | 1 | 0.328 |
| N of Valid Cases | 220 | | |

- 0 (0%) cells have expected count less than 5. The minimum expected count is 5.25
- Computed only for 2x2 table

Explanation- The Chi-Square test results for the family type and total empowerment level at 1 degree of freedom the chi-square value is 0.963 and the significant value i.e P- value is 0.326 which is greater than the standard significant value of 0.05 so the null hypothesis is accepted. Therefore, we can conclude that there is no significant relationship between the family type and empowerment level of women entrepreneurs.

5.3.3 Association between the income and Empowerment level of women entrepreneurs

H₀₃=There is no significant relationship between income and empowerment level of women entrepreneurs

Table 5.15:-Income group and women empowerment

| Income in Rs | Empowerment | | | | Total | |
|-----------------|-------------|-----|------|------|-------|-----|
| | Moderate | | High | | | |
| | No | % | No | % | No | % |
| Below Rs.20,000 | 11 | 9.6 | 103 | 90.4 | 114 | 100 |
| Above Rs.20,000 | 4 | 3.8 | 102 | 96.2 | 106 | 100 |

Source-Field Survey

***Since the expected value is less than 5 income group is categorized into 2 groups below 20,000 above 20,000 and total empowerment as Moderate and High to test statistically significant relationship between total income and empowerment in SPSS.**

Table 5.16:- Chi-square Tests

| Particulars | Value | Df | Asymp. Sig. (2-sided) |
|------------------------------|-------|----|-----------------------|
| Pearson Chi-Square | 2.985 | 1 | 0.084 |
| Likelihood Ratio | 3.111 | 1 | 0.078 |
| Linear-by-Linear Association | 2.971 | 1 | 0.085 |
| N of Valid Cases | 220 | | |

- a. 0 (0.0%) cells have expected count less than 5. The minimum expected count is 7.23
- b. Computed only for 2x2 table

Explanation- The Chi-Square test results for the income and total empowerment level of women entrepreneurs at 1 degree of freedom the chi-square value is 2.985 and the significant value i.e P- value is 0.084 which is greater than the standard significant value of 0.05 so the null hypothesis is accepted.

Therefore, we can conclude that there is no significant relationship between the income and empowerment level of women entrepreneurs.

5.3.4 Association between the Education qualification and Empowerment level of women entrepreneurs

H₀₄=There is no significant relationship between Education qualification and empowerment level of women entrepreneurs

Table 5.17:-Education qualification and women Empowerment

| Education Qualification | Empowerment | | | | Total | |
|-------------------------|-------------|------|------|------|-------|-----|
| | Moderate | | High | | | |
| | No | % | No | % | No | % |
| Below class 10 | 7 | 12.7 | 48 | 87.3 | 55 | 100 |
| 10 th Pass | 8 | 4.8 | 157 | 95.2 | 165 | 100 |

Source- Field survey

***Since the expected value is less than 5 Education Qualification is grouped into 2 categories Below Class 10 and Class 10 Pass**

Table 5.18:- Chi-Square Tests

| Particulars | Value | Df | Asymp. Sig. (2-sided) |
|------------------------------|-------|----|-----------------------|
| Pearson Chi-Square | 4.030 | 1 | 0.045 |
| Likelihood Ratio | 3.562 | 1 | 0.59 |
| Linear-by-Linear Association | 4.012 | 1 | 0.045 |
| N of Valid Cases | 220 | | |

- 1 cells (25%) have expected count less than 5.The minimum expected count is 3.75
- Computed only for 2x2 table

Explanation- The Chi-Square test results for the education qualification and total empowerment level at 1 degree of freedom the chi-square value is 4.030 and the significant value i.e P- value is 0.045 which is less than the standard significant value of 0.05 so the null hypothesis is rejected. Therefore, we can conclude that there is significant relationship between the education qualification and empowerment level of women entrepreneurs.

It is clear from the test that women entrepreneurs who are class 10th pass are more empowered compared to those who are below class 10.

5.3.5 Association between the years of experience and Empowerment level of women entrepreneurs

H₀₅=There is no significant relationship between work experience period and empowerment level of women entrepreneurs

Table 5.19:- Years of experience and women empowerment level

| Years of work experience | Empowerment | | | | Total | |
|--------------------------|-------------|-----|------|------|-------|-----|
| | Moderate | | High | | | |
| | No | % | No | % | No | % |
| 3- 6 years | 8 | 7 | 107 | 93 | 115 | 100 |
| Above 6 years | 7 | 6.7 | 98 | 93.3 | 105 | 100 |

Source-Field Survey

***Since the expected value is less than 5, the empowerment level and years of experience is grouped in two categories i.e. high, very high and years of experience is categorized up to 6 years and above 6 years**

Table 5.20:- Chi-square Tests results

| Particulars | Value | Df | Asymp. Sig. (2-sided) |
|------------------------------|-------|----|-----------------------|
| Pearson Chi-Square | 0.007 | 1 | 0.932 |
| Likelihood Ratio | 0.007 | 1 | 0.932 |
| Linear-by-Linear Association | 0.007 | 1 | 0.932 |
| N of Valid Cases | 220 | | |

- a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 7.16
- b. Computed only for 2x2 table

Explanation- The Chi-Square test results for the years of experience and total empowerment level at 8 degrees of freedom the chi-square value is 0.007 and the significant value i.e. P- value is 0.932 which is more than the standard significant value of 0.05 so the null hypothesis is accepted. Therefore, we can conclude that there is no significant relationship between the years of experience and empowerment level of women entrepreneurs.

3.5.6. Association between the Type/Nature of work and Empowerment level of women entrepreneurs

H₀=There is no significant relationship between type of entrepreneurs and empowerment level of women entrepreneurs

Table 5.21 Nature/type of work and women empowerment level

| Nature/type of Work | Empowerment | | | | Total | |
|-------------------------------|-------------|-----|------|------|-------|-----|
| | Moderate | | High | | | |
| | No | % | No | % | No | % |
| Trading/services | 6 | 7.1 | 79 | 92.9 | 85 | 100 |
| Manufacturing/Processing unit | 9 | 6.7 | 126 | 93.3 | 135 | 100 |

Source-Field Survey

*Since the expected value is less than 5 very High empowerment level is brought in group high to statistically test the association between women empowerment and type of women entrepreneurs using Chi-square test in spss.

Table 5.22:- Chi-Square Test

| Particulars | Value | Df | Asymp. Sig. (2-sided) |
|------------------------------|-------|----|-----------------------|
| Pearson Chi-Square | 0.013 | 1 | 0.911 |
| Likelihood Ratio | 0.013 | 1 | 0.911 |
| Linear-by-Linear Association | 0.013 | 1 | 0.911 |
| N of Valid Cases | 220 | | |

- a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 5.80
- b. Computed only for 2x2 table

Explanation- The Chi-Square test results for the type of entrepreneurs and total empowerment level at 1 degree of freedom the chi-square value is 0.013 and the significant value i.e. P- value is 0.911 which is more than the standard significant value of 0.05 so the null hypothesis is accepted. Therefore, we can conclude that there is no significant relationship between the type of entrepreneurs and empowerment level of women entrepreneurs.