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# Factors Influencing Participation of Female Pineapple Workers in Family Income and Decision Making aspect in Moulvibazar District, Bangladesh

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#### Authors' contributions

This study was carried out in the proper coordination and collaboration among all authors. Author BM Designed, collected, checked, and analyzed the data; and prepared the draft manuscript. Authors BM and MB jointly coordinated, reviewed the draft manuscript, and approved the final manuscript. Authors TBS and MA contributed to the literature search, data interpretation, and reviewed the draft manuscript. The final manuscript was organized, read, and approved by all authors.

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#### **ABSTRACT**

**Aims:** In today's competitive world, the participation of women in the earning sectors is very common and crucial. But there are several reasons that positively or negatively influence female participation in household income and decision-making. This present study aimed to highlight the determinants which are responsible for the economic contribution and decision-making of female pineapple workers at the household level in some selected areas of the Moulvibazar district, Bangladesh.

**Study Design:** This article is about examining the factors which affect female workers contribution to household income and decision-making. It is based on empirical analysis and estimates the components that influence the income and decision-making of female pineapple workers at the household level.

**Place and Duration of Study:** The study was carried out in the Sreemangal Upazila of Moulvibazar district of Bangladesh, including four villages, as the female participation in pineapple

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cultivation is relatively higher than in other districts of Bangladesh. The research was taking place from June to September 2020 which is the production period of pineapple.

**Methodology:** The relevant data were collected from 180 respondents through face-to-face interviews using structured questionnaires. The simple random sampling technique was used to choose the sampled respondents. The demographic profile of the female pineapple workers was estimated by using descriptive analysis. To assess the factors influencing female workers contribution to family income and household decision-making, the logistic regression (Logit) model was used. In case to determine the severity that a pineapple female worker faced in their working place, the Constraints Facing Index (CFI) was applied.

Results: From descriptive analysis, the study revealed that 73.0% of the respondents belong to an active working group and the average family size was 6.25. The study's outcome also showed that 54.5% had no formal education, and almost 56.0% of sample respondents incorporated 6 to 10 family members. 52.3% of respondents have 11-30 years of working experience in the pineapple field. From the Logit model, it is shown that the key determinants of contribution to family income and decision-making in the study area were age, education, occupational experience, indebtedness, and savings of the respondents which had a positive value of 1.041, 1.043, 1.095, 1.000 and 0.499, respectively. Instead of having several problems, low wage rate, physical injury, long working hours, lack of working facilities, and lack of training facilities were major among all the respondents.

**Conclusion:** Lastly, from the respondents viewpoint, it has been summarized that increasing the wage rate, reducing working hours, supply of safety equipment, provide medical and training facilities improve not only their economic position but also ensure a healthy life and fair contribution in household income and decision making purpose.

Keywords: Factors influencing; participation; female; pineapple workers; household income; decision making; Moulvibazar district; Bangladesh.

#### **ABBREVIATIONS**

BBS : Bangladesh Bureau of Statistics SPSS : Statistical Package for Social

Sciences

et al. : Et Alia (L.) and Others

etc. : Etcetera i.e. : That is

Tk. : Taka (Bangladeshi Currency)

% : Percentage

#### 1. INTRODUCTION

Bangladesh, with 16 million people, ranks eighth in the world in terms of population density with a gender ratio of 100:103, which means that half of this is nation's population female Participation of women in household decisionmaking and financial contribution is the important aspect of women's ability to have control over their own lives. About two-thirds of currently married women aged 15-49 make decisions jointly with their husbands regarding their own health care, major household purchases, and visits to their family or relatives, and more than three-fourths of women (76%) are paid in cash only, whereas 16% do not receive any payment for their work. Overall, 83% of women who are employed have cash earnings (including those

earning cash and those paid in-kind). Thus, employment for cash and control over how earnings are used are important indicators of women's empowerment (BDHS, 2017-18) [2]. Haque et al. [3] noticed that a mid-level of women empowerment prevails, but the autonomy level of Bangladeshi women is absolutely low. The Sebstad and Cohen study [4] illustrates that female plays a minor role in family decisionmaking and had a limited command over household resources like health and finances. low amounts of available resources, household work stress, lack of mobility, and insufficient experience and expertise as it highlighted the women's vulnerability by a World Bank study in Bangladesh. Jahan et al. [5] in their study concluded that the empowerment of women is to develop women's potential control to a greater extent in their own lives, positions, and environment. At the same time, they described that women's empowerment is the most important and pronounced issue of the present world and it is not only important for women's development but also a prime step to facing the broader problems of the world. They grow under the fear of society and family, which abolish their confidence and keep them away from decisionmaking. Regarding personal empowerment, women often do not have the right to decide what

to wear, where to go, where to study, or where to work [6]. Women often have less power in relationships due to their economic, political and socio-cultural status and may not be in a position protect themselves from gender-based violence and unwanted sexual intercourse, resulting in sexually transmitted infections and other sexual and reproductive health (SRH) problems [7]. However, Bangladesh is on the path of removing all types of obstacles to women's development by improving various facilities, and at the same time, the participation of females in different working activities is remarkable nowadays. So, research in this field is crucial to develop new knowledge about factors pursuing female contribution to family income and the decision-making process of women empowerment in the recent era. Agriculture is the economy's single largest producing sector; accounting for 17 percent of total GDP, this sector generated 47% of the entire workforce. As a result, agriculture plays a crucial role and is regarded as the most important economic sector [8].

The participation of females in pineapple production is, on average 30% (approximately), but their contribution is not highlighted like male workers [9]. Pineapple is a delicious tropical fruit with a delicate flavor and high nutritional value. The commercial importance of pineapple is recognized all over the world. Thailand is the largest pineapple producer, accounting for 13% of global output, followed by Brazil and Costa Rica [10]. The fresh consumption of pineapple is very common as well as it is widely consumed as juice. Among all the fruits produced in the country, pineapple ranks 4<sup>th</sup> in terms of total area and production [11]. Each year a massive amount of pineapples of different varieties is produced in Bangladesh. This fruit is highly perishable and seasonal. If the excess fruits in the season were preserved by any means ensuring the quality, consumers would have the opportunity to taste this seasonal fruit all year round. Also, these processed fruits could be exported to earn foreign currency [12]. The scientific binomial name of pineapple is Ananas Comosus, which is derived from the word "Tupinanas", which means "excellent fruit". Because of its significant nutritional economic benefits pineapple is a very popular fruit in Bangladesh, which is commonly available during the rainy season.

Even though pineapple is a minor fruit crop in Bangladesh, it is prominent and grows

continuously throughout the year. According to a time-series study, pineapple is Bangladesh's fourth most important fruit based on total growing yield per hectare [13]. Pineapples are commonly grown in Tangail, Chottagram, Rangamati, Sylhet. Bandarban, Khagrachari, Dhaka, Mymensingh, and Moulvibazar [8]. The future of pineapple cultivation in Bangladesh is bright because, even though the fruit is grown in rouahlv 90 countries around the pineapples from Bangladesh are much more moist and flavorful than those from other countries. These pineapples are assured to earn a lot of money in terms of exports whether they are appropriately managed and marketed [14]. Pineapples have a large amount of moisture, glucose, starch content, ascorbate, and dietary fiber. As a result, pineapple can be used as a food additive to help maintain optimum health [15]. It is also high in potassium, calcium, carbs, vitamin C, and moisture, a variety of nutrients, and dietary fiber that helps in digestion and the repair of body weight in a healthy diet. In the case of vitamins contains a single pineapple provides more than 130 percent of daily vitamin for humans. Pineapple enhances needs eyesight, bone strength, dental hygiene, blood flow, and blood pressure regulation, as well as reduces cold and flu problems [13].

A suitable number of studies have been supervised on women's participation in family income and decision-making aspects from different country perspectives. For instance, in their research, Moloy et al. [16] found that about 60% of women actively participate in healthcare decision-making, household purchases, and visits to family or relatives, respectively. Similarly, Dev et al. [17] examined women's autonomy in household decision-making: a demographic study in Nepal. Their study concluded that autonomy in decision-making positively associated with their age, employment. and the number of living children. Women from rural areas and the Terai region have less autonomy in decision-making, and rich women are less likely to have the autonomy to make decisions in their own healthcare. A study by Saleemi and Kofol [18] estimated that due to changes in women's involvement in family matters, households' percentage of education expenditures spent on girls has changed, which is about 12.6 percentage points the higher proportion of expenditure than boys. Pandey et al. [19] explored the involvement of women as decision-makers in India; domestic discovered that women's position in society is an important indication of a region's socio-economic progress. In addition, women's educational attainment and employment position were found to be the most critical determinants of their empowerment and participation in decision-making in all aspects of household life. Other similar findings incorporated by Sariyev et al. [20] in Bhutan showed that women did not lack considerable engagement in home decision-making; the assessments suggested that the relationship between women's participation in decision-making and dietary habits is non-linear.

Furthermore, Awan et al. [21] discovered that women's involvement in the formal and informal labor markets had attained significant national and worldwide significance. For the past three decades, it has dominated the agendas of international organizations. national and Moreover, Ismail et al. [22] in their study in Nigeria, found that women's availability to essential economic resources, such as land (as proprietors), limited labor-saving equipment, food-processing appliances, financing, farming inventions, should be strengthened. Even though rural women play a prominent role in the sector, their contribution to agricultural productivity and rural development in Nigeria is woefully underappreciated.

Therefore, it is remarkable that female workers occupy a significant portion of the total labor force, but they get minimal facilities and are deprived in various ways. Despite their considerable involvement in the household's income and well-being, they have minimal decision-making power. As a result, women's equal participation in socio-economic operations is restricted due to a lack of ownership and control over production factors, which impedes the process of human advancement [23].

Very limited studies have been conducted on factors influencing women's participation in household income and decision-making aspects in the case of Bangladesh. For example, Marwati et al. [24] estimated in their research work that education level, working time, work experience, and the number of family members significantly affected the income of female workers. Age did not affect the income of female workers. A study by Awan et al. [21] also analyzed that women's education, women's profession, working hours, women outside (home) work permission, number of dependents, and poverty status of households positively and significantly affect their support (contribution) to the

household budget. Factors like the husband's education, his earned income, number of infants (0-5 years age), household participation (in economic activity) rate (including both male and female), and the husband's employment status negatively affect the women's contribution. Moreover, Sultana [25] in her study of the effects of determinants on women's independence and decision-making power inside the household in rural areas, found that men have more power in making family decisions simply because they are men; women are usually expected to follow out commands. She further noted that male dominance is a natural state of things, which means that society has made men dominant and that men must work to support their families. In contrast, women are helpless in practically every sector and utterly reliant on men.

The above reviews and discussion indicated that a large number of studies were conducted on determinants affecting females' financial contribution and household decision-making. Only a few research on factor analysis about female laborers' engagement in pineapple production and decision-making viewpoint have been undertaken, according to these literature evaluations. So, it is essential to investigate more studies that would effectively assess the factors responsible for female pineapple workers financial contribution and decision-making in the Moulvibazar district of Bangladesh. Therefore, to estimate the overall objective of the study which is the factors impacting female pineapple workers involvement in household income and decision-making in the Moulvibazar district, Bangladesh, the specific objectives are carried out: i. to document the socio-demographic profile of the selected female pineapple workers; ii. to identify the factors responsible for female workers contribution in household income and decision-making; and iii. to explore the possible constraints and provide proper policy guidelines.

#### 2. MATERIALS AND METHODS

## 2.1 Selection of the Study Area and Sample

The study used both descriptive and analytical methods. The study area was selected purposively, keeping in mind the objectives. For the selection of sample female workers, the respondents were chosen based on a simple random sampling technique (Lottery method). Based on the female participation in pineapple work, the research was carried out

in the Sreemangal Upazila of the Moulvibazar district of Bangladesh, including four villages. namely Sadar, Mohajirabad, Doulochora, and Radhanagar; as in these areas, the numbers of respondents were comparatively high, and the specific research analysis in this perspective is very scanty. As the participation of women in the pineapple field is comparatively lower than man, to select the representative part of the population the researchers collect the female worker's list from District Agricultural Extension Office. A sample size of 180 out of 400 populations was considered for this study, with 45 female workers chosen from each selected village. In this study, the selection respondents was based on two criteria: females who are working in a pineapple field and have the right to take their household decision. Primary data were gathered using structured questionnaires through face-to-face interviews with female pineapple workers from June to September 2020. Obtained information and data from questionnaires were coded and analyzed using SPSS software. The following analytical technique was used to estimate factors affecting female workers income contribution and decision-making constraints identification.

#### 2.2 Analytical Techniques

# 2.2.1 Assessing the factor affecting female workers contribution to family income and decision-making

The study used the logistic regression model to determine the factors affecting female contribution to household income and decisionmaking. The value of the livelihood diversification index ranges between zero (0) and 1. The Logit model is more suitable for finding the parameter estimates when there are latent or censored sample presents in the dependent variable. In this study, the dependent variable Yi (female participation in family income and decisionmaking) was defined to have two possible outcomes (1) Participation in household income decision making and (2) Constant participation situation or decrease which are coded 1 and 0, respectively. This shows that the dependent variable is dichotomous and it can be represented by a variable taking the value 1 with probability (Pi) and the value 0 with probability (1-Pi). When it is proportion as a response, it can be used as a logistic or Logit transformation to link the dependent variable to the set of explanatory variables. A sample in which information on the dependent variable is unavailable for some observation is known as a censored or latent sample [26].

The following Logistic model was employed:

$$L_{i} = \ln\left[\frac{P_{i}}{1 - P_{i}}\right]$$

$$= \beta_{0} + \beta_{1}X_{1} + \cdots + \beta_{7}X_{7} + \text{Ui}$$
(1)

The logit model was estimated using the binary dependent variable. The binary variable was assigned the value '1' for female workers contribution to family income and decision-making and '0' otherwise.

The logit model was specified as follows:

$$Y_{i} = \beta_{0} + \beta_{1} X_{1i} + \beta_{2} X_{2i} + \beta_{3} X_{3i} + \beta_{4} X_{4i} + \beta_{4} X_{5i} + \beta_{6} X_{6i} + \beta_{7} X_{7i} + \beta_{8} X_{8i} + U_{i}$$
(2)

Where,

 $\beta_0$  = Intercept

 $\beta_1 - \beta_8$  = Logistic regression coefficient  $X_1 - X_8$  = Independent variables of female workers:

= Age (in years)

X<sub>2</sub> = Family size (in no. of family members)

members)

X<sub>3</sub> = Educational level (in years of

schooling)

 X<sub>4</sub> = Working environment (1 for having a good and favorable environment

and 0 for otherwise)

X<sub>5</sub> = Occupational experience (in

years)

 $X_6$  = Indebtedness (in Tk.)

 $L_7$  = Working period (in hours of

working)

 $X_8$  = Savings (in Tk.)

 $U_i$  = Error term

To find the appropriate estimation out the contribution to household female income and decision-making, statistical software SPSS was used to analyze the data.

#### 2.2.2 Identify major constraints

To find out the constraints that the female workers faced in participation in household income and decision-making, the following method was used to calculate the Constraint Facing Index (CFI) [27].

$$CFI = (C_n \times 3) + (C_m \times 2) + (C_1 \times 1) + (C_n \times 0)$$
 (2)

Where.

CFI = Constraints Facing Index;

C<sub>h</sub> = Number of respondents having high constraints;

C = Number of respondents having medium constraints;

C = Number of respondents having low constraints; and

C = Number of respondents having no constraints.

An attempt was made to find out suggestions from the respondents to overcome the identified constraints.

#### 3. RESULTS AND DISCUSSION

This part of the study implies the socio-economic profile, the factors affecting female contribution to family income and decision-making aspect of the sampled respondents in the selected areas of the Moulvibazar district. The results also evaluate the problems faced by the female pineapple workers and some possible solutions to solve those problems.

### 3.1 Socio-economic Characteristics of the Respondents

The socio-demographic profile of the female pineapple workers is illustrated in Table 1. It is noticeable that most of the workers group belong to the 25-64 age group, which indicates that active working peoples are more appropriate to work in a pineapple field as it is risky for older adults and hard-working activity. The average family size of the respondent was 6.25 (whereas 51.0% of family members were male and 49.0% were female). Regarding the number of family members, most of the respondents in the study area were 6-10 family members (55.5%). In the case of the educational level majority of the respondents, which is 54.50%, didn't have any formal education owing to their financial crisis. In contrast, the primary and secondary levels were 24.4% and 21.1%, respectively. In the study area, most of the respondents were engaged in diversified working activities to fulfill their basic needs, where 57.2% of respondents worked only in a pineapple field, whereas the other two types are related to poultry and livestock rearing along with pineapple fieldwork which is 22.2% and 20.6%, respectively (Table 1).

Table 1. Percentage distribution of the respondents by socio-economic characteristics

Particulars	Percentage	Particulars	Percentage
Average Family Size (No.)	6.25 (Male: 51		
Age categories		Marital status	
Below 24 years	26.5	Single	18.3
25- 64 years	73.0	Married	74.4
Above 65 years	0.5	Divorced	2.8
Family type		Widow	4.4
Joint family	32.8	Occupation status	
Nuclear family	67.2	Pineapple work	57.2
Literacy level		Poultry and livestock rearing	22.2
No formal education	54.5	Small business	20.6
Primary	24.4	Income level	
Secondary	21.1	Below 1 Lakh	43.4
No. of family member		1 Lakh to 2 Lakh	52.8
Below 6	32.7	Above 2 Lakh	3.8
6 - 10	55.5	Indebtedness	
Above 10	11.8	Yes	58.6
Occupational experience		No	41.4
Below 10 years	34.5	Savings	
11 to 30 years	52.3	Yes	18.5
Above 30 years	13.2	No	81.5

Source: Authors estimation, (2021)

Table 2. Estimated values of co-efficient and related statistics for measuring the livelihood improvement the female contribution to family income and decision making

Variables name	Co-efficient β	Standard of error	t-values	Level of significance	Exponential of coefficient or odds ratio
Age	0.040*	0.021	3.689	0.055	1.041
Family size	-0.003	0.062	0.002	0.963	0.997
Education level	0.042**	0.039	1.140	0.016	1.043
Working environment	-0.109	0.324	0.113	0.736	1.115
Occupational experience	0.091*	0.046	3.824	0.051	1.095
Indebtedness	0.000	0.000	0.181	0.671	1.000
Working periods	-0.069	0.467	0.022	0.882	0.933
Savings	0.695*	0.376	3.424	0.064	0.499
Constant	-2.127	3.598	0.349	0.554	0.119
-2 Log likelihood			236.587	•	
Cox and Snell R <sup>2</sup>			0.176		
Nagelkerke R <sup>2</sup>			0.235		

Source: Authors estimation, (2021)

Note: \*\* indicates significant at 5% level and \* denotes significant at 10% level.

From Table 1, a noticeable number of respondents working experience was 11-30 years, whereas 34.5% and 13.2% mentioned below 10 years and above 30 years of occupation experience. Approximately, 59.0% of the respondents were trapped in indebtedness; on the contrary, only 18.5% had savings for future emergencies.

# 3.2 Factors Affecting Female Workers Contribution to Household Income and Decision-Making

In this study, eight independent variables have been considered significant determinants of the probability of female contribution to household income and decision-making. These were the age of the respondents, family size, education, occupational experience, working environment, indebtedness, working periods, and savings. A Logit model was used to determine the effect of different factors on female workers participation in both aspects.

### 3.3 Empirical Results of Logistic Regression

The present study estimated that all the factors were prior and had a positive impact on female contribution to family income and decision making (Table 2). The result shows that the model was suitable (2 log-likelihood ratio test, 236.587) for explaining the determinants (Nagelkerke R Square, 0.235) of the female contribution to the surveyed household. Among

the variables considered in logistic regression analysis, four explanatory variables, namely age of female workers, education level, work experience, and saving (significant at 5% and 10% probability level). Age of the respondents, education level. occupational experience. indebtedness, and savings positively impacted female participation in household income and decision-making, which were 1.041, 1.043, 1.095, 1.000, and 0.499, respectively. The odds ratio of age coefficient was 1.041, which is significant, meaning that a unit increase in the age of female workers will increase the probability of making the household decision and contribute to their family income by, on an average, 1.041 holding other factors remaining constant. In the present study, significant socioeconomic factors such as age, educational level, work experience, and savings influence female workers livelihood positively. A respondent who had higher education and work experience got more facilities in their workplace than others because of their better performance, also they were more capable to earn more for their families. Furthermore, age level and savings indicate their intelligence as the oldest person were able to take decision in any serious or unexpected circumstance in their workplace as well as in their family based on their life experience and savings helps to overcome any serious conditions and emergencies. So, the respondents who contribute to their family income are undoubtedly more valued person in their family and their decision were also taken positively by others due to their capabilities. In

their study. Roy et al. [28] investigated that the regression analysis showed that women's income was positively related to women's education and farm size but negatively related to age, family size, and indebtedness which is somehow relevant to the present study as educational level had a positive impact on female pineapple workers participation decision-making and household financial contribution because educated persons are placed their views and ideas in front of others more clearly than the illiterate peoples and they are more capable to earn more to meet up their family expenses and their decision are widely accepted by their family members owing to their correct and logical explanation. At the same time, family size had a negative impact on female contribution and decision-making similar to Roy et al. [28]. But in the present study, the age of the respondents was significant at 10% level of significant and had a positive impact as with the increase in age level, their occupational experience was increased. They were able to earn more money than before, and their decision was placed more valued by their family as they were taking decisions about their personal experience. Moreover, it meant that if the independent variables, i.e., education level, occupational experience, indebtedness, and savings, increased by 1 unit, the probability of improving female contribution to family income and participation in household decisions will be increased by 1.043, 1.095, 1.000 and 0.499 times, respectively; and the family size, working environment, and working periods are surged by 1 unit, the probability of female grant will be decreased by 0.997, 1.115, and 0.933 times (Table 2). Another similar finding illustrates by Ismail et al. [22] they claimed that the dominance of gender division is the most striking bottleneck to all the effort by women in this all-important

sector in the income contribution in the rural areas.

# 3.4 Constraints Faced by the Sampled Female Workers and Desirable Solutions

Constraints faced by female workers in the study area were estimated using four-point rating scale by computing the constraint score of respondents. The problems that were met by the female workers and the possible solution were discussed in Table 3.

Table 3 discusses several problems faced by the female workers in pineapple production work in the survey area. Among other problems, the low wage rate is one of the major problems for all types of female workers who are working laborer work. In the aspect of payment, it is the main discriminating point that differentiates our male and female workers which are similar to the finding of Parker [29] and Gould et al. [30] who find out that women do the equivalent work as men in the same work but they are paid less than man. The livelihood of every worker was largely dependent on their wage. But in the study area. the female workers wage rate was insufficient as cultivation of pineapple work is harder for females and females are only taking part in weeding, applying fertilizer, and sometimes involve in harvesting so they are getting less money than male workers. Out of 180 female workers in the study area, 130 faced this constraint to a great extent, 50 faced it to a medium extent, and the computed value of CFI was  $490 \left[ (130*3) + (50*2) + (0*1) + (0*0) \right]$  against a possible range from 0 to 540 for each (Table 3).

Table 3. Constraints faced by sampled female workers

SI. no.	Statements	High (3)	Medium (2)	Low (1)	Not at all (0)	Total	Rank
1	Low wage rate	130	50	0	0	490	1
2	Poor working environment	66	25	47	42	295	8
3	Long working hour	100	47	20	13	414	3
4	Harassment by male workers	0	0	57	123	57	10
5	Physical injury	123	33	20	4	455	2
6	Lack of training	88	35	33	24	367	5
7	Lack of working facilities	77	59	23	21	372	4
8	Physical weakness	80	20	33	47	313	7
9	Lack of transportation facilities	45	55	48	32	293	9
10	Social problem	60	43	50	27	316	6

Source: Authors estimation, (2021)

Table 4. Possible solutions for the sample respondents

Name of solution	Frequencies	Percentage
Increase wage rate	80	44.4
Reduce working hour	37	20.6
Provide training for personal safety	33	18.3
Provide safety equipment	17	9.5
Ensure medical facilities in low cost	13	7.2
Total	180	100

Source: Authors estimation, (2021)

An overall situation of the constraints faced by the female workers in the study area was implied in Table 3; the low wage rate with CFI 490 was ranked first, whereas second, third, fourth, fifth, sixth, seventh, eighth, ninth, and tenth position was physical injury with CFI 455, long working hours with CFI 414, lack of working facilities with CFI 372, lack of training with CFI 367, the social problem with CFI 316, physical weakness with CFI 313, poor working environment with CFI 297, lack of transportation facilities with CFI 293, and harassment by male workers with CFI 57, respectively. Kona et al. [31], in their study. showed that different age groups of working women, both married and unmarried, have faced different kinds of challenges and harassment in the workplace for being women. In most cases, they confront personal, power, and psychological harassment and suffer mental and physical stress, depression, lack of confidence, and proper balance between employment and family care. Another similar finding is incorporated by Prajial [32] that female workers worldwide face several problems in doing their work which are a balance between work and family, unfair treatment at work, lack of flexible work hours, lack of good-paying jobs, unequal pay for doing similar work as men, lack of transportation/lack of safe transportation, and lack of skills, experience or education. Besides the above two, these findings are compatible with the conclusions drawn by Abid et al. [33] Zohurul and Hasan [34]: Sikdar et al. [35] Viiavaragavan [36] Kousalva [37]; Salam [38]; Bavya and Raghunandan [39]; Gowda and Rao [40]; in which they also found similar types of problems faced by female workers.

### 3.4.1 Desirable solutions for the female workers

Instead of having many problems, everyone still lives with some hope that all issues will be solved someday. They also gave some opinions on

which their situation can be improved. Those were discussed in Table 4.

All the workers in the study area were deprived of their right to get a real wage. As a result, they don't give their full attention to work because of the depression of losing wages and feel they were more deprived than the male workers. So, increasing the wage rate can help them to do their work with complete determination without any misconception. For this purpose, almost 45% of the total sampled respondents opinioned on increasing their wage rate (Table 4). Reducing working hours, providing training facilities for personal safety, providing safety equipment, and ensuring medical facilities are other factors that are helpful for them to fight the adverse situation and improve their livelihood. To improve health 20.6% of the total sampled conditions, respondents opinioned reducing working hours. to reduce the problem of inefficient working 18.3% of respondents considered increasing the training facilities, providing physical safety 9.5% of respondents believed safety equipment namely hand gloves and gumboots, to ensure better health conditions 7.2% of respondents opinioned to provide medical facilities with a low cost or free of charge, respectively (Table 4).

#### 4. SUMMARY AND CONCLUSION

Females are a crucial part of any country, and their participation in domestic and employment sectors is appreciable for the overall socioeconomic development. In recent times, women are not only doing their household chores but also doing several jobs to secure their positions and become economically solvent. But the matter of regret is that by doing so, females faced various challenges to ensure their presence. There are also many factors that affect female's economic contribution and decision-making process in and outside the household, as we know that females worked as fuel to speed up

the wheel of development. Without the involvement of women, proper action cannot be Instead of having apart. constraints, the participation of females in the study area is known. This satisfied the overall objective to determine the factors influencing female participation in family income and decision-making perspective. The findings of the study revealed that most of the respondents contain 6 to 10 family members and belong to the active age group; the majority of the respondents belongs to the nuclear family and gets married at earlier stages due to financial problems and their unconsciousness about the bad impact of early marriage. Most of them engaged with pineapple work, and some were involved in rearing poultry and livestock. Females were also taking part in household income and decision-making perspectives. This study also educational that described age, occupational experience, and savings positively and significantly impacted the female contribution to household income. Having different types of constraints, low wage rate, physical injury, long working period, lack of training, and poor working environment hampered the work performance of the respondents. So, in these aspects, different government and non-government organizations should take a few steps to ensure a fair wage rate, reduce working hours, ensure proper medical treatment and provide training facilities that not only ensure better performance of female workers in pineapple production but also securing their life from several unexpected circumstances.

#### **CONSENT**

As per international standard or university standard, Participants' written consent has been collected and preserved by the author(s).

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#### **COMPETING INTERESTS**

Authors have declared that no competing interests exist.

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