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A study to assess the socio-economic status of tea workers in selected tea estates of Sylhet district

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Abstract

The study was carried out to examine the socio-economic characteristics of tea plantation workers. A total of 50 farmers from Sylhet district were selected randomly for data collection. The study showed that on an average the size of family of the tea workers was 4.69 which is lower than agricultural labourer in Bangladesh. The dependency ratio was found to be 1.80. The literacy of the teaworkers was 56 percent out of which 43 percent were primary level and 13 percent were secondary level. The average annual income per surveyed household was Tk. 75,615 out of which 83% of the total income came from service as a tea labourer while rest 17% derived from agriculture and non-agricultural sources. On an average, the annual expenditure per family was Tk 64,053. The study observed that 88 % percent of the surveyed family received loan from different NGO,s and while only 12 percent obtained from the bank. The analysis credit utilization showed that 41% of the total loan was utilized in meeting repairing houses followed by purchasing of cows (25%) and business (13%) respectively. The study showed that hundred percent roofs of tea workers houses were made of tin. But 58% of the wall was made of brick while 42% was made of mud. On an average 47% of the families reared poultry while 63 percent had livestock. Fifty four percent of households grew vegetables in the study area. The major types of vegetables cultivate by tea workers in the study area were bean, lalsak, chalkumra, gourd etc. Majority household had fruit trees in their homestead. The study showed that most of the household consumed their home products. But only twenty one percent of the households sold their fruits in the local market for cash flow.

Introduction

Tea is a major cash crop as well as an important export earner of Bangladesh accounting for about 0.11 % of the GDP by exporting tea (BTB, 2012). The industry and related trade are providing employment for about 0.15 million people, which are nearly 3.3% of the total industrial employment (Haque et al., 2012). At present the production of Bangladesh tea is increasing @ 1.16% per annum whereas consumption is increasing @ 6.5% per annum (Saha et al. 2011). So in order to meet the increase domestic consumption productivity should be increased by increasing the efficiency of tea labourer. Productivity mainly depends upon the working efficiency of tea workers. A number of crop and management related factors were identified which influence labour efficiency. Agronomic study showed that possibility of reducing energy expenditure and heat load on tea pluckers and pointed to benefit of training them for enhancing energy use efficiency and puckers productivity (Jain, 1996).

Labour may be considered as raw material in tea production. Labour cost on different operations incurred 40.85% of the total cost (Saha *et al.*, 2011). Among the different operational cost only plucking constitutes 44.33% of the total labour cost. Plucking 60kg leaf per day doubles the wages and it saves 60% cost of plucking

(Jain, 1996.). The greater the efficiency of a tea plucker, the lower the cost of tea manufacturing. These are possible individually or jointly by proper training of the tea worker and supervision of the work. The socioeconomic condition of tea workers is very poor and the workers maintain a very low living standard. Therefore, to maintain the production efficiency of worker should be increased. .To increase the efficiency of the existing socio-economic condition of the tea worker is to be identified first. Once the socio-economic condition of the tea workers is known then it will be easier to solve their problems and as a result their efficiency can be increased. No systematic study on socio-economic condition has yet been undertaken neither by BTRI nor other organization till 2010. A planter should know the root level socio-economic condition of the tea workers, which will assist for improving the standard of living of the tea workers. Improved socio economic condition of the tea workers will contribute positively in the production system of the tea sector. Therefore, a tea estate management could increase per unit production of his own estate.

Tea has been accepted as one of the ten core commodities under integrated programme for commodities (IPC) of the United Nations Conference of trade and development (Sana, 1989.). The population of

Bangladesh Tea Industry is about four lakhs including 1.5 lakhs are employed and rest are dependents (PDU, 2012). Of all the factors responsible for development and sustainability of Bangladesh Tea Industry, the hard labour of the tea workers at all operational stages upto to the end products cannot be ignored. Other factors are intensive cultivation, adoption of newer concepts and technology and efficiency in management (Alam, 1996). Major share of the profits is associated with the efficiency of the management and skillness of the tea workers.

Manpower development will enhance the tea output and improve the quality of tea and simultaneously reduce the cost of production (Hasib, 1996). The existing socioeconomic status of the workers will provide a view of the future in perspective of the past and serves as a base for tea policy decision (Misra, 1986). It will be a guideline for tea planters to know in how many ways and means and to what extent the efficiency of tea workers needs to increase in achieving the desired his/her output. It will help to take a balance between the development rate of tea industry and efficacy and skillness of tea workers. This study will help to improve the relationship between the management and tea workers. The major objective of the proposed study is to assess the socio-economic status of tea workers at Sylhet district. The specific objectives of the study are:

- i. To identify the socio-economic characteristics of the tea workers.
- ii. To evaluate the social and economic condition under which the tea workers work.
- iii. To detect the ways and means to increase the efficiency of the tea workers

Materials and Methods

Two-stage stratified sampling method was followed in the study. In the first stage management-wise five estates, such as Lakatorrah. Malnicherra, Burjan, Khadim and Habibnagar tea estates were selected by simple random method. in such a way that it represents broad management viz, Sterling Company, National Tea Company, Private Limited Company, and Proprietary under which tea estates can be classified. An up-to-date list of the tea workers was collected from the individual tea estate for the purpose of selecting the tea workers. After that 50 tea workers were selected randomly from each of the five tea estates to collect requisite data. A draft questionnaire was prepared in the light of the objectives of the study. It was then pretested in the

selected area among few tea workers. The final questionnaire was prepared after making necessary correction and modification.

Survey method was followed for collecting information from the respondent. After collection of data the interview schedule was checked and scrutinized to avoid irrelevant information. After collection of data a list of tables was prepared on the basis of aims and objectives of the study and processing, editing and coding of the data were done simultaneously. The tabulated data were then analyzed and condensed by using descriptive statistical techniques of averages, percentages, ratios etc. to obtain the result.

Results and Discussion

Socio-economic Characteristics of tea workers

Family size of the sampled tea workers: The Socioeconomic characteristics of the tea workers have an important bearing for increasing the efficiency of tea workers. The average household size of tea workers was found to be 4.69 out of which 28.83% was adult male, 28.38% was adult female while 42.79% t were children which was lower than the national average size 4.80 (BCS, 2008). It was also observed that the family size was comparatively lower than that of agricultural family size of Bangladesh (Elias, 1988). The dependency ratio of the tea workers was 1.80 (Table 1).

Educational level of the tea workers: On an average the literacy rate of the tea worker was 60.48 % including those who had learnt introduction to Bengali alphabets and who could write and read letter (Table 2). Tea workers having primary and secondary education were 46.32 and 14.16 percent respectively. The study revealed that the level of literacy of the tea workers was fairly high as compared to Sylhet district. The study also suggested that rate of literacy among the tea plantation workers is not less than that of the agricultural laborer working in Bangladesh.

Occupational status of the tea workers: Occupation is one of the most important indicators of socio-economic status. The study showed that on an average 40.48 % of the workers worked as a tea labourer in their respective tea estate (Table 3.). The dominance of occupation as a tea labourer is evident in all the tea estates.

Table 1. Composition and family size of tea workers in some selected tea estates of Sylhet

Tea Estates	A	verage number of fa per estate	Average Earning	Dependency ratio			
	Adult Male	Adult Female	Children	Total	member		
Lakatoorah	1.50	1.36	1.88	4.68	2.69	1.73	
	(32.05)	(29.06)	(39.32)	(100)	(5747)	(42.53)	
Malnicherra	1.40	1.20	2.30	4.90	2.63	1.86	
	(28.2)	(25.3)	(46.5)	(100)	(53.67)	(46.33)	
Burjan	1.30	1.38	1.80	4.48	2.60	1.72	
3	(29.02)	(30.80)	(40.18)	(100)	(58.04)	(41.96)	
Khadim	1.28	1,28	1.90	4.44	2.36	1,88	
	(28.83)	(28.37)	(42.80)	(100)	(53.15)	(46.85)	
Habibnagar	1.40	1.24	2.28	4.92	2.32	2.32	
Ü	(28.46)	(25.20)	(46.34)	(100)	(47.15)	(52.85)	
All Estates	1.37	1.30	2.02	4.69	2.60	1.80	
	(28.83)	(28.38)	(42.79)	(100)	(48.14)	(51.86)	

Figure within parentheses indicate percentages

Source: Field Survey 2015.

Table 2. Educational level of the tea workers in some selected tea estates of Sylhet

Tea Estates	Illiterate		Literate					
		Primary	Secondary	Total				
Lakatoorah	92	124	34	158	250			
	(36.80)	(49.60)	(13.60)	(63.20)	(100)			
Malnicherra	106	105	39	144	250			
	(42.40)	(42.00)	(15.60)	(57.60)	(100)			
Burjan	86	120	44	160	250			
•	(34.40)	(48.00)	(17.60)	(64.00)	(100)			
Khadim	90	125	35	138	250			
	(36.00)	(50.00)	(14.00)	(61.16)	(100)			
Habibnagar	120	105	25	130	250			
-	(48.00)	(42.00)	(10.00)	(52.00)	(100)			
All Estates	494	579	177	756	1250			
	(39.52)	(46.32)	(14.16)	(60.48)	(100)			

Figure within parentheses indicate percentages

Source: Field Survey 2015.

Table 3. Occupational status of the tea workers in some selected tea estates of Sylhet

Tea Estates	Occupational Status										
	Tea Labour	Business	Student	Children	Total						
Lakatoorah	91	31	85	27	234						
	(38.89)	(13.25)	(36.32)	(11.54)	(100)						
Malnicherra	93	33	90	29	245						
	(37.96)	(13.47)	(36.73)	(11.84)	(100)						
Burjan	88	26	80	30	224						
-	(39.29)	(11,60)	(35.72)	(13.39)	(100)						
Khadim	96	32	53	41	222						
	(43.24)	(14.42)	(23.87)	(18.47)	(100)						
Habibnagar	106	23	61	56	246						
-	(43.09)	(9.35)	(24.80)	(22.76)	(100)						
All Estate	474	145	369	183	1171						
	(40.48)	(12.39)	(31.51)	(15.63)	(100)						

Figure within parentheses indicate percentages

Source: Field Survey 2015.

Annual income and Expenditure of the tea workers: Economic status of the households is generally determined by the annual income. The study observed that on an average the annual income of the tea workers household was Tk.76695. Major Share of annual income of the households came from doing job as a tea worker

out of which 66.67 % obtained as cash money and 16.63% from kinds (Table 4). Annual income of the tea workers from agriculture was only 4.13 % while it was about 12.52% from non-agricultural sector. On an average the annual expenditure of the tea worker household was Tk. 64053. The study revealed that

highest expenditure was incurred for rice and wheat (29.66 %) followed by vegetables, fish, species, oil, meat and pulses respectively (Table 5). The cash flow

transactions of the tea worker households showed that they are living in below subsistence level.

Table 4. Distribution of annual income tea workers in some selected tea estates of Sylhet (in taka)

			Annı	ıal Income in Tak	a		
Tea Estates		Service					
	Cash	Kinds	Total	Agriculture	Non agriculture	Grand Total	
Lakatoorah	45299	11731	57030	4073	12137	73240	
	(61.85)	(16.02)	(77.87)	(5.56)	(16.57)	(100)	
Malnicherra	56677	13211	69888	4442	6928	81258	
	(69.75)	(16.26)	(86.01)	(5.47)	(8.52)	(100)	
Burjan	47448	11881	59329	2727	5092	67097	
	(70.71)	(17.71)	(88.42)	(4.06)	(7.59)	(100)	
Khadim	50742	12080	62822	1312	3775	67909	
	(74.72)	(17.79)	(92.51)	(1.93)	(5.56)	(100)	
Habibnagar	51908	13982	65890	3126	3830	72846	
C	(71.26)	(19.19)	(90.45)	(4.29)	(5.26)	(100)	
All Estates	50415	12577	62992	3136	9478	75695	
	(66.67)	(16.63)	(83.33)	(4.13)	(12.52)	(100)	

Table 5. Distribution of annual expenditure tea workers in some selected tea estate of Sylhet (in taka)

	Annual Expenditure in taka										
Tea Estates	Rice & Wheat	Pulse	Fish	Meat	Vegetables	Oil	Species	Others	Total		
Lakatoorah	19448 (30.06)	3490 (5.39)	8065 (12.46)	4252 (6.57)	9652 (14.92)	5140 (7.94)	5744 (8.88)	8915 (13.78)	64706 (100)		
Malnicherra	17191 (25.42)	4061 (6.01)	9227 (13.64)	4762 (7.04)	11156 (16.50)	5115 (7.56)	6260 (9.26)	9854 (14.57)	67626 (100)		
Burjan	19685 (31.96) 16712	3499 (5.68) 3782	7685 (12.48) 8163	3654 (5.93) 3596	9195 (14.93) 9127	5028 (8.18) 4625	5827 (9.46) 6350	7026 (11.41) 8055	61599 (100) 60500		
Khadim	(27.63) 21945	(6.25) 3589	(13.49) 8213	(5.94) 3794	(15.23) 9469	(7.64) 4695	(10.50) 6049	(13.31) 8084	(100) 65838		
Habibnagar All Estates	(33.33) 18997 (29.66)	(5.45) 3684 (5.75)	(12.47) 8271 (12.91)	(5.76) 4011 (6.26)	(9.19) 9737 (15.20)	(7.13) 4920 (7.68)	(9.19) 6046 (9.44)	(12.28) 8387 (13.09)	(100) 64053 (100)		

Figure within parentheses indicate percentages

Source: Field Survey 2015.

Availability and utilization of Credit of tea workers: With the introduction of modern techniques in crop production and deterioration of worker's economic condition credit is regarded as an indispensable ingredient of production. Tea workers in Bangladesh are very poor and live below subsistence level. They cannot afford modern inputs unless cash money or inputs in kinds are provided. That is why the tea workers need external fund for their production. The study showed that 53 percent of the household received loan. The average amount of loan received per household was Tk. 11606. The study also depicts that 88 percent of the household received loan from different NGO while only 12 percent obtained loan from the bank. The analysis of credit utilization revealed that 41 percent of the total loan was utilized in meeting repairing of houses followed by purchasing of milk cows (25%) and business (13%) respectively (Table 6).

Social and demographic circumstance under which the tea workers work

Description of the tea workers houses: The average homestead area of the tea workers was 3.44 decimal. It was observed that 100 percent of the tea workers did not have their own houses. They generally live in the house given by individual tea estates. The study revealed that hundred percent roofs of the houses were made of tin. While 58 percent of the wall was made of brick while 42 percent of the wall was made of mud. On an average, the duration of living of a tea worker in a tea estate is about 34 years (Table 7).

Practice of livestock and poultry rearing: The field survey revealed that 47 percent household had poultry rearing (Table 8). It was observed that on an average 28 percent of household sold the poultry products. A further query on the types of livestock activities was as such:

hen rearing (43%), milk cow (38%), and goat (31%) respectively. The study also portrays that on an average

60% of the tea workers consume the livestock product while 40% of the household sold the livestock product.

Table 6. Credit received by the tea workers in some selected tea estates of Sylhet

Tea Estates Credit received (in percent)			Credit received		Purpose of	credit	Sources of Credit			
			per worker	Purchasing	Repairing	Business	Others	NGO		Bank
	Yes	No	(in taka)	Cows	House			ASHA & BRAC	FIWBP	_
Lakatoorah	50	50	9760	10(40)	06 (24)	04 (16)	05 (20)	22 (88)	02(8)	01(04)
Malnicherra	44	56	20045	04 (18)	12 (55)	02 (9)	03 (14)	17(77)	03(14)	02(9)
Burjan	66	34	10333	05 (15)	13 (40)	04 (12)	11 (33)	10(30)	17(52)	06(18)
Khadim	50	50	7934	05 (20)	13 (52)	03 (12)	04 (16)	01(04)	20 (80)	04(16)
Habibnagar	54	46	7339	09 (33)	10 (37)	04 (15)	04 (15)	06 (22)	19(70)	02 (08)
All Estates	53	47	11606	33 (25)	53 (41)	17 (13)	27 (21)	56 (42)	61(46)	15 (12)

Figure within parentheses indicate percentages

Source: Field Survey 2015.

Table 7. Description of the houses of the tea workers in some selected tea estates of Sylhet

Tea Estates	Homestead area (decimal)	Ownership of the House (Percent)		Types of Roof (Percent)		Types of Wall (Percent)		Period of residing at the House (Year)
	,	Company	Own	Tin	Sungrass	Pucca	Mud	
Lakatoorah	3.50	100		100		50	50	31
Manicherra	3.52	100		100		80	20	37
Burjan	3.20	100		100		54	46	34
Khadim	3.20	100		100		50	50	32
Habibnagar	3.64	100		100		58	42	35
All Estates	3.44	100		100		58	42	34

Source: Field Survey 2015.

Table 8. Number of household having livestock and poultry of the tea workers in some selected tea estates of Sylhet

Tea Estates	Н	aving Poultry			v 1	Livestock 6)	Pattern of use of Livestock (in percent)		
		Pattern of u	ıse(%)	Milk	Goat	Hen	Duck	Consumption	Sell
	Percent	Consume	Sell	Cow					
Lakatoorah	26	92	46	40	20	22		75	45
Manicherra	40	95	25	52	40	38	02	79	36
Burjan	64	96	44	32	28	56	16	63	50
Khadim	52	96	42	20	36	50	4	61	73
Habibnagar	54	92	29	44	10	48	10	39	52
All Estates	47	94	28	38	31	43	8	60	40

Source: Field Survey 2015.

Vegetables grown, Sources and types of vegetables: On an average 54 % percent of the households grew vegetables in their homestead area (Table 9). The study revealed that 84 percent of the household consumed their own grown vegetables and only 16% sold their vegetables at the adjacent local market. The study showed that majority of the household (70%) purchased

seed from local market for vegetables cultivation and 30 percent of household used own seeds for vegetables cultivation. The major types of vegetables grown by the household in the study area were bean (63%), Sweet gourd (32%), Piisak (31%), Gourd (30%), Chalkumra (29%), Lalsak (28%) respectively (Table 10).

Table 9. Number of household grown vegetables and sources by the tea workers in some selected tea estates of Sylhet

	,	Vegetable grown						
Tea Estates		Pattern of	use (%)	_ 50	- Sources of vegetables Seed (%)			
	Percent	Consume	Sell	Own	Local Market	Government		
Lakatoorah	42	85	15	38	62			
Manicherra	38	90	10	55	45			
Burjan	52	95	5	15	85			
Khadim	74	80	20	18	82			
Habibnagar	62	80	20	33	67			
All Estates	54	84	16	30	70			

Source: Field Survey 2015.

Table 10. Types of vegetables grown by the tea workers in some selected tea estates of Sylhet

Tea Estates	Types of vegetables grown (in percent)									
Tea Estates	Bean	Lalsak	Puisak	Danta	Gourd	Kachu	Chilli	Chalkumra	Sweet gourd	
Lakatoorah	52	28	28	10	28	15	5	24	24	
Manicherra	74	42	42	11	32	21	5	32	42	
Burjan	58	31	31	9	31	8	8	42	31	
Khadim	24	43	38	14	16	8	5	19	32	
Habibnagar	21	16	23	16	45	13	7	23	43	
All Estates	63	28	31	11	30	13	6	29	32	

Source: Field Survey 2015.

Belong fruit trees of the household : Table 11 showed that 78 percent of the household had fruit trees. It was observed from the table that only 21 percent of

household sold their fruits at the adjacent local market. Data appended in the table indicated that majority of the household consumed their home produced fruits.

Table 11. Number of household having fruit trees of the tea workers in some selected tea estates of Sylhet

Tea Estates	Having Fruit t	rees (in percent)	Pattern of use of fruit trees (in percent)		
Tea Estates	Yes	No	Consumption	Sell	
Lakatoorah	80	20	100	33	
Manicherra	80	20	100	30	
Burjan	84	16	100	19	
Khadim	66	34	100	28	
Habibnagar	75	25	100	29	
All Estates	78	22	100	21	

Source: Field Survey 2015.

Conclusion

The average family size of tea workers is smaller as compared with agricultural labourer in Bangladesh. The family size can be reduced by intensive visit of family planning worker through motivation. The literacy percentage of tea workers is 64 percent. So introduction of new primary schools in the tea estates may increase the literacy percentage. The main occupation of the able working force is tea workers in their respective estates. They generally work from 7–30 a.m. to 2–30 p.m. they can do additional work in off time. They can earn money by manual work like pulling of rickshaws, van etc. They live from hand to mouth. They have no extra capital for purchasing rickshaw, cart, van etc. Short term supervised credit should be provided to them by any financial institution or any NGO with minimum interest rate. As a result, their per capita income will increase

and consequently the working efficiency of tea workers will higher. Usually most of the tea workers grow vegetables in their homestead area. But they use local seed and their productivity is lower as compared with other agricultural farmers in Bangladesh. Therefore, short term supervised credit may be distributed to them at a minimum interest rate in time. This would enable them to procure improved seeds, which will help to enhance vegetable production. Consequently they will be able to consume these vegetables and maintain a good physique and better life; ultimately their working efficiency will increase. The present project was only a meager study to unveil some of the facts relating to the socio-economic status of our tea industry workers class. The findings would definitely encourage undertaking further detailed study on efficiency of tea workers vis-àvis their contribution to the productivity of the Bangladesh Tea Industry.

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