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Participation Of Women Agricultural Labour In Bihar

Dr. Ramesh Kumar Singh Guest Assistant Professor Department of Economics, Marwari College Kishanganj Bihar-855107

Abstract: In Bihar, women constitute a significant portion of the agricultural workforce, with my studies showing their participation in various agricultural operation in various, particularly in harvesting (14.56%) and showing (11.36%), and facing challenges like lower wages and limited ownership. The proportion of women agricultural labour in rural areas is higher than urban areas, with study showing 19.40% and 14.00% respectively. Participation of women in total workforce was assessed 27.44 % as against 72.56 % by male workforce in 2011¹. Share of women agricultural workforce in total workforce was computed to be 16.57% in 2001 which declined to 6.23% in 2011. The causes of decline may be their participation other sectors with improvement in their literacy rate which rose to 51.50% in 2011 as compared to 33.57% in 2001. The malefemale sex ratio has registered a decline of 0.11% as compared to 2001 census. Women holding land account for only 13.31% as against 87.27% by men Bihar. Share of women agricultural workforce in total agricultural workforce was estimated to be 19.32% as per census 2011. Operation wise contribution of women in agricultural activities was assessed to be 35.94% during 2013-14. Women's contribution in agriculture is significant and plays diverse role, still their wages were found 4.60% less than their male counterparts during 2024². To strengthen women's participation in agriculture and allied sectors and to improve their access to land, loans and other facilities, the Ministry of Agriculture and Farmers Welfare has policy provisions like joint leasing for both domestic and agricultural land under National policy for farmers. Under credit facility provisions government has framed policy for issuing Kisan Credit Cards to women for creating livelihood through livestock practices and agricultural processing. For empowering women government made provision of Home Science wing in every Kishan Vigyan Kendra. Beside all efforts, there is still a wide gender gap in the state which may be addressed properly for overall development of women and the society in particular and state and nation in general. The paper tries to analyze the participation of women in agricultural development of Bihar and the issues confronting them.

Key words: Women Agricultural labour, Land holdings, Women workforce, Women Empowerment.

I. Introduction

Agriculture is the first culture that man learnt to practice as means of living and a way of life. Agriculture is consider as the backbone of the Bihar rural economy and is a family enterprise. It is an important engine of growth and poverty reduction. Changing Environmental conditions, declining water level, unavailability of human labour, higher target of food production, enhancing farmers income and timeliness of agricultural operations and economic feasibility of farm are the challenging tasks not only for state in particular but nation in general. In Bihar the average farm size is approximately 0.39 ha, that too is highly fragmented, resulting in many miniscule plots. Mechanization on these smaller farms for operations like land preparation and harvesting is against the economies of scale³. Further about 60 percent rural households are landless in the

state. This situation is more critical in case of women farmers who hold only 13.31% land which is lower than the national average of 13.50 percent.

Women Agricultural labour play multidimensional role in sustainable development of economy through their contribution household and agricultural activities. They contribute in every field of agriculture- from land preparation to harvesting of crops. Apart from this, they also manage allied activities like dairy cattle, fodder collection, beekeeping, mushroom production, goat rearing and poultry etc. They contribute substantially in family income generation directly thus help enhancing social status of their families ¹. Income and its source are important measures to understand the level of households' living standard and ways to achieve that level. Income along with households' expenditure and possessions reveal aspects of income volatility and provides an additional measure of inequality².

In the present scenario a proverb "without women we will go hungry" seems suitable. Women play prime role in traditional farming from manual farm activities to agro-processing to homemaking³. On various occasions, women have proved that they can step up farm modernization using modern farm implements, however contribution are less recognized. In the era of gender equality and emphasizing women empowerment in all round development of the society can't be denied. Women sacrifices for the family are incomparable. Hence, they are the worst sufferer in all aspects compared to any part of the world. The present investigation is an attempt to access the participation of women in the socio-economic and agriculture field in the state of Bihar.

II. METHODOLOGY

The simple statistical methods like averages and percentage were used to analyze the status of women, gender wise population, literacy, share in total and agricultural workforce, and share in landholdings, wage rate and operation-wise participation. The data were taken from Census 2001,2011 and Bihar Agriculture Census 2024, different Wages Report, Govt. of India and Bihar, and for operation wise participation of women in agriculture, unit level data was taken from Cost of Cultivation Scheme, Ministry of Agriculture and Farmer's Welfare running in the state of Bihar.

III. RESULTS AND DISCUSSION

Table 1 presents the population of women, their literacy rate and sex ratio in the state. It can be seen from the table that population of women has increased by 25.13% from 2001 to 2011 as compared to national increase of only 17.6%. The faster population increase in population of women is a positive sign of growth of the state. Female literacy rate is still low (51.50%) as compared to male literacy. It is also much below with respect to national female literacy of 65.5% as per census 2011. In sex ratio has declined by 0.11% from 2001 to 2011. But at nation level it has registered increase of 0.75%. Increase in female literacy and population share is good sign of socio-economic growth of the society in particular and state and nation in general.

Table 1: Population and literacy rate of women in Bihar

Particulars	2001	2011	Percentage change from 2001 to2011
Total population (lakh)	830	1041	25.42
Female population (lakh)	398	498	25.13
Male population (lakh)	432	543	25.69
Female literacy rate (%)	33.57	51.50	-
Male literacy rate (%)	59.70	71.20	-
Sex ratio (female per 1000 male	919	918	-0.11

Source: Census data for Bihar

Table 2 shows the share of agricultural workers in total workforce, a perusal of table-2 reveals that share of agricultural work force in total workforce has declined from 47.98% in 2001 to 27.46% in 2011. Women's share has also come down from 16.57 % to 6.23% in as per census of 2011. This may be due to increase in literacy rate among women, as literate women are getting engaged in other vocations like SHG's, government and private jobs. Work participation in public and private sector has improved the status of women and socioeconomic background of family has also improved⁴.

Table 2: Share of agricultural workers in total workforce

Year	Particulars	Work force (lakh)	Agricultural work force (Lakh)	Gender wise participation in total workforce (%)	Participation of agricultural workforce to total work force (%)
2001	Total	279.74	134.22	100.00	47.98
	Female	74.91	46.87	26.78	16.57
	Male	204.83	128.16	73.22	45.81
2011	Total	347.25	95.37	100.00	27.46
	Female	95.2 <mark>8</mark>	21.64	27.44	6.23
	Male	252. <mark>22</mark>	73.73	72.56	21.23

Source: Census data for Bihar

The gender wise worker participation in agriculture in rural and urban Bihar is presented in Table 3. The 1.5thbleerofflects 31 Metass per 1.5thbleerofflects 31 Meta

Table 3: Total workers in agriculture in Bihar

Particulars			2011 (in lakh)	
		Total	Rural	Urban
	Total	54.13	52.61	1.52
Cultivators	Female	7.24	7.09	0.14
	Male	46.89	45.51	1.37
Agricultural labour	Total	95.37	92.26	3.12
	Female	21.64	21.13	0.51
	Male	73.73	71.13	2.60
Total Agricultural workers	Total	149.50	144.87	4.64
	Female	28.88	28.22	0.65
	Male	120.62	116.64	3.97
	Total	347.25	313.60	33.65
Total Work force	Female	95.03	89.23	5.79
	Male	252.22	224.37	27.85
% of female/male in total	Female	19.32	19.48	14.01
agricultural work force	Male	80.68	80.51	85.56

Source: Census 2011 data for Bihar

Operation wise participation of women was calculated from plot level data of Cost of Cultivation Scheme for the year 2013-14 for the state of Bihar and the findings thus obtained are shown in Table 4. The findings pointed out that major participation of women labour was observed in Harvesting of crops 14.56% followed by sowing of crops 11.36%. Overall participation in all the farming operations was assessed to be 35.94%.

Table 4: percentage participation of female in different agricultural activities in Bihar (%)

SI. No.	Operations	Male	Female
1.	Land preparation	2.79	0.01
2.	Sowing	14.34	11.36
3.	Plant protection	0.25	0.00
4.	Manuring	6.32	0.07
5.	Interculturing	3.10	5.00
6.	Irrigation	10.34	0.06
7.	Harvesting	16.46	14.56
8.	Threshing /Winnowing	9.68	4.85
9.	Transpor <mark>t on farm</mark>	0.78	0.01
10.	Total	64.06	35.94

Source: Computed from plot level data of Cost of Cultivation Scheme for Bihar of 2013-14.

Ownership of land resources is another issue confronting the women farmers in Bihar. Female land holdings accounted for 8.50 lakh ha in the state (Table 5) which constituted only 13.31% of the total land holdings 66.88 lakh ha of the state. Out of total marginal land holding accounted 14.55% followed by small 12.82%. Total share of male in landholdings in the state was recorded 86.27% which reflected dominancy of male in the society.

Table 5: Gender wise distribution area (lakh ha) in different classes in Bihar

Particulars	Marginal	Small	Semimedium	Medium	Large	Total
Female Land holdings	5.34	1.52	1.23	0.38	0.035	8.50
Male Land holdings	31.28	10.29	9.45	3.73	0.36	55.11
Total land holdings	36.69	11.86	10.73	4.15	0.45	63.88
% of female land holding in total land holding	14.55	12.82	11.46	9.16	7.78	13.31
% of male land holding in total land holding	85.25	86.76	88.07	89.88	80.00	86.27

Source: Agricultural census 2010-11

Women agricultural worker represent sizeable proportions continue to receive lower wages than men. The ministry of labour puts the difference at 60% of women wages, while the Indian Labour Journal showed that women are paid 75% of men wages. Low wage rates of female labour are due to the seasonal and informal nature of employment, wrong pre-assumption that female do less work than their men counterpart¹. Table 6 revealed that the gap between wages of male and female decreased. It was 14.35% in 2008 and a wide gap of 17.33% was computed during 2011 thereafter, this gap between male wage rate and female wage rate was decreased to 4.60% in 2024.

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Years	Male (Rs/day)	Female (Rs/day)	% difference	Marginal change
2008	67.33	57.67	14.35	
2011	100.00	82.67	17.33	+2.98
2014	172.00	150.67	12.40	- 4.93
2016	203.67	189.33	7.04	-5.36
2024	391	373	4.60	-2.44

Table 6: Gender wise wage rate (Rs/day) in Bihar for different periods

Source: Wages Report, GoI and GoB.

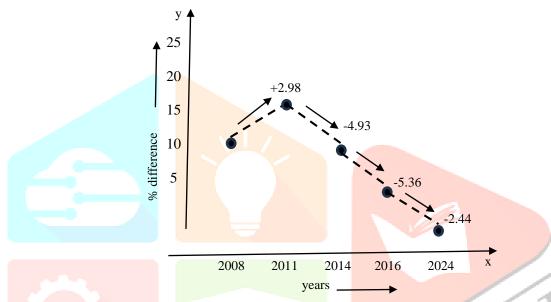


Figure 1: % difference and marginal change in wage rate in Bihar

Percentage difference between male and female per day wage have been increased from 14.35 in 2008 to 17.33 in 2011. Its means marginal wage gap between male and female per day wage has risen by 2.98. But after 2011 to 2024 years till, its percentage difference has continuously fell down from 17.33 to 4.60 % and marginal wage gap also fell down -4.93(in 2014), -5.26(in 2016) and -2.44(in 2024). The difference between male and female per day wage had fell down, the causes to advantage of introduced Jeevika and 5 years agriculture road map (from 2008 1st Ag. Road map to 2023-28 4th Ag. Road map) and other programs of Bihar Government which shows go ahead near Lorenze curve equality in income and rural women empowerment in Bihar. The employment in agriculture sector has increased with 46.1% of the workforce engaged in 2023-24 up from 44.1% in 2017-18².

IV. CONCLUSIONS

LSakamma and Umesh 2018, 2.Economic In Binar-about 30.39% of the total female agricultural workforce of total female work force is engaged in farming occupation. On the other hand share male agricultural worker in total male agricultural workers is assessed to be 47.82%. Thus, women play a key role in the agricultural activities of the state. In spite of these, women have share of only 13.32% in total landholdings of the state and there is a gap of 4.60% between wage rate of men and women in 2024.

An Organization like Sewa bharat are working to empower womens agricultural labour in Bihar, focusing on livestock-based livelihoods and addressing social and economic barriers. To strengthen women's participation in agriculture and allied sectors and to improve their access to land, credit and benefit

of different Govt. programs, Ministry of Agriculture and Farmers Welfare has policy provisions like joint leasing for both domestic and agricultural land under National policy for farmers. Under credit facility provisions government has framed policy for issuing Kisan Credit Cards to women for creating livelihood through livestock practices and agricultural processing. Further, in each KVK there provision of Subject Matter Specialist (SMS) of Home Science to create awareness among women farmers and labourers about their role in upliftment of socio-economic conditions of the society. Men and women are like two sides of a balance. Balance in society can be achieved only when both the sides are considered equal. Hence, ignoring the role of women especially in a developing state like Bihar cannot bring development in real senses.

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