every 10 days interval. Similarly, number of branches were recorded at 60 DAS. Days to 50% flowering was recorded. The total number of pods from the selected plants was recorded. And it was converted into number of pods per plant. Weight of pod was measured in gram by using digital weighing machine. And it was converted into ton per hectare based on yield per plant.

2.4 Statistical analysis

The collected data was entered into MS Excel (2019) and analyzed using r- studio (4.5.1 version). The mean comparison was done using DMRT.

3 Results and Analysis

3.1 Plant height

The statistical analysis indicates that there is significant difference at 5% level of significance between the plant height of different varieties at observation of 30 DAS (Table 2). Bhindi F1 produce the maximum plant height (9.80 cm). The minimum plant height was produced by Selection no. 07 (6.93 cm). The study shows a significant difference in plant height at 5% level of significance at 40 DAS. The maximum plant height is attained by NOL 303 Julie (18.23 cm) and minimum by Swaraj Pan (14.72). The study shows that the difference in the plant height among the varieties is insignificant after 40 DAS.

Table 2 Plant height of different varieties of okra at Chakarghatta, Sarlahi

Variety	Plant height (cm)				
	30 DAS	40 DAS	50 DAS	60 DAS	70 DAS
Arka Anamika	7.90^{bc}	15.41^{b}	31.00	45.41	63.33
Selection no 07	6.93^{c}	15.87^{b}	27.08	51.48	72.20
Bhindi F1	9.80^{a}	16.26^{ab}	34.16	51.43	71.60
Rohini	8.61^{ab}	15.41^{b}	33.56	53.20	71.40
Super Anamika	8.45^{ab}	15.20^{b}	31.46	49.30	66.06
NOL 303 Julie	8.64^{ab}	18.23^{a}	32.33	49.04	66.60
Swaraj Pan2155	9.09^{ab}	14.72^{b}	33.40	50.64	69.70
Grand mean	8.49	15.84	31.85	50.07	68.70
SEm (±)	0.47	0.66	1.69	2.38	3.28
LSD (0.05)	1.44	2.05	5.21	7.33	10.11
CV (%)	9.59	7.29	9.20	8.23	8.27
F test	*	*	ns	ns	ns

Note: LSD: Least Significant Difference, SEm: Standard Error of Mean; CV: Coefficient of Variation, letters “a”, “b”, “c” represent the ranking of treatments according to DMRT at 0.05 level of significance, DAS: Days After Sowing, ns: Non-Significant, * significant at 5% level of significance, ** significant at 1% level of significance, *** significant at 0.1% level of significance

3.2 Number of leaves

The data recorded at 30 DAS shows significant result in the leaf number at 1% level of significance where maximum leaf number is observed in Bhindi F1(5.23) which is at par with variety Rohini (Table 3). Similarly, minimum number of leaves is observed in Arka Anamika (3.63). Furthermore, at 40 DAS maximum leaf number is observed in Bhindi F1 (8.13) and minimum leaf number is observed in Arka Anamika (6.06). Additionally, Rohini, Super Anamika, NOL 303 Julie and Swaraj Pan 2155 are statistically similar. The observation of leaf number is statistically similar at 50 and 60 DAS. Moreover, Maximum leaf number is observed in Selection no 07 (47.93) at 70 DAS.

3.3 Number of lateral branches

There is a significant difference in the number of lateral branches among the varieties at 5% level of significance. The highest number of lateral branches is observed in Selection no. 07 (3.58). Likewise, Super Anamika (2.86) and NOL 303 Julie are statistically similar and minimum number of lateral branches is observed in Rohini (2.56).