

## LIST OF FIGURES

Figure	Particulars	Preceding Page
1.	Soil Types of Gorakhpur District	40
2.	Lay out plan of the field experiment.	41
3.	Correlation between pH & Av. N in soil ( $T_1$ ).	64
4.	Correlation between pH & Av. $P_2O_5$ in soil ( $T_1$ ).	64
5.	Correlation between pH & Av $K_2O$ in soil ( $T_1$ ).	64
6.	Correlation between pH & Av. Sulphur in soil ( $T_1$ ).	64
7.	Correlation between pH & Av. Zn in soil ( $T_1$ ).	64
8.	Correlation between Ec & Av. N in soil ( $T_1$ ).	64
9.	Correlation between Ec & Av. $P_2O_5$ in soil ( $T_1$ ).	64
10.	Correlation between EC & S in soil ( $T_1$ ).	64
11.	Correlation between O.C. & Av. N in soil ( $T_1$ ).	64
12.	Correlation between O.C. & Av. $P_2O_5$ in soil ( $T_1$ ).	64

13.	Correlation between O.C. & Av. $K_2O$ in soil ( $T_1$ ).	64
14.	Correlation between O.C. & Av. S in soil ( $T_1$ ).	64
15.	Correlation between O.C. & Av. Zn in soil ( $T_1$ ).	64
16.	Correlation between $CaCO_3$ & Av. N in soil ( $T_1$ ).	64
17.	Correlation between $CaCO_3$ & Av. $P_2O_5$ in soil ( $T_1$ ).	64
18.	Correlation between $CaCO_3$ & Av. $K_2O$ in soil ( $T_1$ ).	64
19.	Correlation between $CaCO_3$ & Av. S in soil ( $T_1$ ).	64
20.	Correlation between $CaCO_3$ & Av. Zn in soil ( $T_1$ ).	64
21.	Correlation between clay & Av. N in soil ( $T_1$ ).	64
22.	Correlation between clay & Av. $P_2O_5$ in soil ( $T_1$ ).	64
23.	Correlation between clay & Av. $K_2O$ in soil ( $T_1$ ).	64
24.	Correlation between clay & Av. S in soil ( $T_1$ ).	64
25.	Correlation between clay & Av. Zn in soil ( $T_1$ ).	64
26.	Correlation between pH & Av. N in soil ( $T_2$ ).	64

27.	Correlation between pH & Av. $P_2O_5$ in soil ( $T_2$ ).	64
28.	Correlation between pH & Av. $K_2O$ in soil ( $T_2$ ).	64
29.	Correlation between pH & Av. S in soil ( $T_2$ ).	64
30.	Correlation between EC & Av. N in soil ( $T_2$ ).	64
31.	Correlation between EC & Av. $P_2O_5$ in soil ( $T_2$ ).	64
32.	Correlation between EC & Av. $K_2O$ in soil ( $T_2$ ).	64
33.	Correlation between EC & Av. S in soil ( $T_2$ ).	64
34.	Correlation between $CaCO_3$ & Av. N in soil ( $T_2$ ).	64
35.	Correlation between $CaCO_3$ & Av. $P_2O_5$ in soil ( $T_2$ ).	64
36.	Correlation between $CaCO_3$ & Av. $K_2O$ in soil ( $T_2$ ).	64
37.	Correlation between $CaCO_3$ & Av. S in soil ( $T_2$ ).	64
38.	Correlation between clay & Av. N in soil ( $T_2$ ).	64
39.	Correlation between clay & Av. $P_2O_5$ in soil ( $T_2$ ).	64

40.	Correlation between clay & Av. $K_2O$ in soil ( $T_2$ ).	64
41.	Correlation between clay & Av. S in Soil ( $T_2$ ).	64
42.	Correlation between pH & Av. N in soil ( $T_3$ ).	64
43.	Correlation between pH & Av. $P_2O_5$ in soil ( $T_3$ ).	64
44.	Correlation between pH & Av. $K_2O$ in soil ( $T_3$ ).	64
45.	Correlation between pH & Av. S in soil ( $T_3$ ).	64
46.	Correlation between EC & Av. $K_2O$ in soil ( $T_3$ ).	64
47.	Correlation between O.C. & Av. N in soil ( $T_3$ ).	64
48.	Correlation between O.C. & Av. $P_2O_5$ in soil ( $T_3$ ).	64
49.	Correlation between O.C. & Av. $K_2O$ in soil ( $T_3$ ).	64
50.	Correlation between O.C. & Av. S in soil ( $T_3$ ).	64
51.	Correlation between O.C. & Av. Zn. in soil ( $T_3$ ).	64
52.	Correlation between $CaCO_3$ & Av. Zn in soil ( $T_3$ ).	64
53.	Correlation between clay & Av. N in soil ( $T_3$ ).	64

54.	Correlation between clay & Av. $P_2O_5$ in soil ( $T_3$ ).	64
55.	Correlation between clay & Av. $K_2O$ in soil ( $T_3$ ).	64
56.	Correlation between clay & S in soil ( $T_3$ ).	64
57.	Correlation between clay & Av. Zn in soil ( $T_3$ ).	64
58.	Effect of Sulphur on grain yield of rice cultivars.	66
59.	Effect of sulphur on straw yield of rice cultivars.	66
60.	Effect of Sulphur on grain uptake of N of rice cultivars.	70
61.	Effect of sulphur on straw uptake of N of rice cultivars.	70
62.	Effect of sulphur on grain uptake of $P_2O_5$ of rice cultivars.	76
63.	Effect of sulphur on straw uptake of $P_2O_5$ of rice cultivars.	76
64.	Effect of sulphur on grain uptake of $K_2O$ of rice cultivars.	80
65.	Effect of sulphur on straw uptake of $K_2O$ of rice cultivars.	80
66.	Effect of sulphur on grain uptake of S of rice cultivars.	85
67.	Effect of sulphur on straw uptake of S of rice cultivars.	85

68.	Effect of sulphur on grain uptake of Zn of rice cultivars.	89
69.	Effect of sulphur on straw uptake of Zn of rice cultivars.	89
70.	Relationship between tissue content of S & available soil S extracted by different extractants.	92
71.	Optimum dose of S for maximum yield of rice cultivars.	94