## EVALUATION OF TURMERIC GERMPLASM UNDER TELANGANA CONDITIONS

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**Abstract:** The present investigation entitled "Germplasm evaluation of Turmeric (*Curcuma longa* L.)" was undertaken to evaluate the performance of different types of germplasm of turmeric under Telangana conditions. The experiment was carried outduring kharif from 2017-18 and 2018-19 at Turmeric research station, Kammarapally, NizamabadDistrict, Telangana. MahalanobisD<sup>2</sup> statistics revealed that considerable genetic diversity exists within and among the four clusters. The characters Rhizome length (58%) Size of mother Rhizomes (58%), showed that the variation among genotypes. In addition to genetic divergence, considering the mean performance and horticulturally desirable attributes, five genetically distant lines *viz.*, Selam, Acc-94, Tekurpet, Lakadong, and Kasturiavidi, were selected as parents from cluster II, cluster III, cluster IV and cluster V for development of hybrids.

Keywords: Turmeric, Selam, Varieties, Biocontrol, Rhizome rot

## REFERENCES

Anasuya (2004). Evaluation of different genotypes of turmeric for yield and quality under irrigated conditions for command area of Northern Karnataka. M.Sc. (Agri) Thesis, University of Agricultural Sciences, Dharwad.

**Arun, K. S. and Jagadish, R.** (2012).Performance of different turmeric cultivars under coconut plantation for sub Himalayan Terai region of West Bengal.*International Journal of Agricultural Sciences*. 8(1): 25-28.

Ashok, K., Subhash, B. and Deepak, M. A. D. (2012). Germplasm evaluation of turmeric (*Curcuma longa*) for growth and yield under mid hills of Sikkim Himalayas. *Green farming*. 3(5): 617-618.

Bandopadhya, S., Chakraborty, S., Datta, S., Devnath, A., Roy, K., M. and Haque, S. (2016). Conservation and evaluation of turmeric germplasms in Terairegion of West Bengal, India. https://www.researchgate.net/publication/303935785.

**Datta, S. and Chatterjee, R.** (2001).Performance of turmeric germplasm for New Alluvial Zone of West

Bengal under rainfed condition. *Research on Crops*. 2(1): 156-158.

**Deshmukh, N. A., Gondane, S.U., Ingole, P.S. and Patil, S.R.** (2009).Performance of different promising cultivars of turmeric under Nagpur condition. *Journal of Soils and Crops.* 19(1): 88-91.

**Jagadeesha, S.K.** (2000). Evaluation of promising turmeric (*Curcuma domestica*) cultivars for rainfed condition in hill zone.M.Sc. (Agri) thesis.University of Agricultural Sciences, Banglore.

**Jana, J.C. and Bhattacharya, B.** (2001). Performance of different promising cultivars of turmeric (*Curcuma domestica*) under terai agroclimatic region of West Bengal.Environmental and Ecology. 19 (2): 463-465.

**Kumar, K.S. and Yadav, D.S.** (2001). Adaptability of turmeric genotypes in acid hills soils of Manipur. *Indian Journal of Hill Farming*. 14(2): 147-149.

**Nandi, A.** (1990). Evaluation of turmeric varieties for north eastern plateau zone of Orissa under rainfed condition. *Indian Journal of Agricultural Sciences*. 60(11): 760-776.

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