

## YIELD PERFORMANCE OF TIKHUR (*CURCUMA ANGUSTIFOLIA* ROXB.) GENOTYPES IN NARAYANPUR DISTRICT OF CHHATTISGARH

M.K. Sahu<sup>1</sup>, Deo Shankar\*<sup>2</sup>, R.R. Kanwar<sup>2</sup> and D.P. Singh<sup>2</sup>

<sup>1</sup>Krishi Vigyan Kendra (IGKV) Jagdalpur (C.G.)

<sup>2</sup>S G. College of Agriculture and Research Station, (IGKV), Kumhrawand, Jagdalpur, Bastar (C.G.) 494 005

Email: [deo1975ram@gmail.com](mailto:deo1975ram@gmail.com)

Received-07.10.2016, Revised-18.10.2016

**Abstract :** The investigation was undertaken during the year of kharif season 2014-15 and 2015-16 at demonstration farm of KVK, Narayanpur. The experiment was laid out in Randomized Complete Block Design (RCBD) and experiment was conducted for evaluation of six genotypes of Tikhur (IGSJT-10-1, IGSJT-10-2, IGBLT-10-1, IGBT-10-4, IGDMT-10-1 and Local Check) with three replications. The genotypes were grown randomly in each replication/block in a total of 18 plots of 3.0 m x 2.4 m each containing 60 plants per plot and planting spacing was 60 x 20 cm. Observations were recorded from ten randomly selected sample plants in each treatment and observed mean value used for statistical analysis. The result revealed that the maximum rhizome weight (327.5 g plant<sup>-1</sup>) maximum rhizome yield (27.30 t ha<sup>-1</sup>) and starch recovery 14.29 per cent was recorded in genotype IGSJT-10-2 and followed by IGSJT-10-1. On the basis of experimental results of two years pooled data the genotype IGSJT-10-2 may be recommended to farmers of Narayanpur district for commercial production.

**Keywords:** Tikhur, *Curcuma angustifolia* Roxb., Rhizome yield, Starch recovery per cent MLT

### REFERENCES

- Anonymous** (2005). Chhattisgarh Rajya Laghu Vanopaj, Bajar Sarvekshan Prativedan, CGMFPFED. pp 16,17 & 42.
- Anonymous** (2008). Annual Report, All India Coordinated Research Project on Tuber Crops, Central Tuber Crops Research Institute, (ICAR), Thiruvananthapuram, Kerala, India. pp 32-33.
- Dhandar, D.G. and Varde, N.P.S.** (1980). Performance of selected clones of turmeric (*Curcuma longa*) under Goa conditions. *Indian Cocoa, Arecanut and Spices Journal*. **3** (4): 83-84.
- Gangadharappa, P.M., Hegde, H.G., Thammaiah, N. and Kanamadi, V.C.** (1997). Performance of turmeric cultivars in Uttar Kannada district of Karnataka State. *Advances in Agricultural Research in India*. **8**: 33-36.
- Indiresh, K.M., Uthaiiah, B.C., Herle, P.S. and Rao, K.B.** (1990). Morphological, rhizome and yield characters of different turmeric varieties in coastal Karnataka. *Mysore Journal of Agricultural Sciences*. **24**(4): 484-490.
- Kirtikar and Basu** (1918). Indian Medicine plant. Second dition vol. **4**. P 2418.
- Latha, P., Giridharan, M.P., Naik, B.J.** (1995). Performance of turmeric (*Curcuma longa* L.) cultivars in open and partially shaded conditions under coconut. *Journal of Spices and Aromatic Crops*. **4**(2): 139-144.
- Latha, P., Latha, A., Giridharan, M. P. and Nair, N.K.** (1994). Performance of turmeric cultivars as an intercrop in coconut gardens. *Indian Coconut Journal Cochin*. **25**(8): 5.
- Maurya, K.R.** (1991). R.H. - 10 a promising variety of turmeric to boost farmer's economy. *Indian Cocoa, Arecanut and Spices Journal*. **13** (3): 100-101.
- Misra, S. H. and Dixit, V. K.** (1983). Pharmaceutical studies on starches of some Zingiberaceous rhizomes. *Indian Journal of Pharmaceutical Sciences*. **45** (5): 216-220.
- Nandi, A.** (1990). Evaluation of Turmeric (*Curcuma longa* L.) varieties north- eastern plateau zone of Orissa under rainfed condition. *Indian j.of Agricultural sciences*. **60**(11) :760-761.
- Pathania, N.K. Arya, P.S., and Singh, Mohan,** (1988). Variability studies in Turmeric (*Curcuma longa* L.) *Indian journal of Agricultural Research*. **22**(4): 176-178.
- Patil** (1995). Performance Turmeric (*Curcuma long* L.) varieties in lower pulney hills of Tamil Naidu, India. *Journal of spices and Aromatics crops*. Pp.156-158.
- Philip and Nair, P.C.S.** (1983). Morphological and yield characters of turmeric types. *Indian Cocoa, Arecanut and Spices Journal*. **6** (3): 61-67.
- Pujari, P.D., Patil, R.B., and Sonpal, R.T.** (1987). Studies on growth, yield and quality components in different turmeric varieties. *Indian cocoa, Arecanut and spices journal*. Pp. 15-17.
- Pushkaran, K., Babylatha, A.K. and George, K.M.** (1985). Comparative performance of turmeric varieties in coconut gardens. *South Indian Hort*. **33** (4): 269-270.
- Radhakrishna, V.V., Madhusoodanan, K.J. and Kuruvilla, K.M.** (1995). Performance of different varieties of turmeric (*Curcuma long* L.) in the high ranges of Idukki district of Kerala. *Indian Cocoa, Arecanut and of spices journal*. **19**(1):8-10.

\*Corresponding Author

**Sabu, M.** (2006). Zingiberaceae and Costaceae of South India. *Indian Association Angiosperm.*

**Vimala, B.** (2002). Exploration of lesser known starchy tuber crops, evaluation and utilization.

Annual Report, All India Coordinated Research Project on Tuber Crops, Central Tuber Crops Research Institute, (ICAR), Thiruvananthapuram, Kerala, India. pp 75 - 76.