



Article history :

Received : 02.08.2014

Revised : 23.10.2014

Accepted : 05.11.2014

Effect of integrated nutrient management on yield, quality and economics of knolkhol (*Brassica oleracea* L. cv. GONGYLODES)

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ABSTRACT : An experiment was carried out in the College of Agriculture, Orissa University of Agriculture and Technology, Bhubaneswar during *Rabi* 2012-13. The experiment comprised of 11 treatments replicated three times in a Randomized Block Design. Of the eleven treatments seven comprised of 100 per cent NPK with or without organic nutrient supplements, two treatments with 50 per cent NPK +organic nutrient supplements, one treatment with no nutrients (T₁ – control), and one treatment with only biofertilizers. The T₇ which comprised of 100 per cent NPK (@ 150-38-63 kg NPK ha⁻¹) application along with vermicompost (@ 2.5 t ha⁻¹), biofertilizer @ 2 kg ha⁻¹ each of *Azotobacter*, *Azospirillum* and PSB) recorded significantly higher values for total dry weight per plant (77.8 g), yield (420.0 q ha⁻¹), chlorophyll content (56.96%) TSS (3.1°Brix), ascorbic acid content (55.2 mg/100g) and protein content (44.2 g/100g) followed by T₆. The treatment T₆ had same nutrients as T₇ except, FYM instead of vermicompost. But the T₆ proved to be most economical treatment with a benefit:cost ratio of 2.7.

KEY WORDS : Economics INM, Knolkhol, Quality, Yield

HOW TO CITE THIS ARTICLE : Mishra, P.P., Das, A.K. and Mishra, N. (2014). Effect of integrated nutrient management on yield, quality and economics of knolkhol (*Brassica oleracea* L. cv. GONGYLODES). *Asian J. Hort.*, 9(2) : 382-385.