

Response of onion (*Allium cepa* L.) cv. Nasik red to different organic treatments under irrigated condition

V.N. Nandeshwar¹ and A.B. Mastiholi²

Received April 2, 2017 and Accepted July 10, 2017

ABSTRACT : An investigation was carried out to study the effect of organic onion (*Allium cepa* L.) cv. Nasik Red under irrigated condition at Horticultural Research Station Hidkal Dam during *Kharif* 2011. Among different organic treatments, application of poultry manure recorded significantly higher bulb yield (195.39 q/ha), TSS content (12.30%), total sugar content in bulbs (63.57 µg/100 mg) and pungency content in bulbs (6.58 µmole pyruvate/g of tissue). Similarly, same treatment was found significantly superior in increasing the available nutrient status from the soil and nutrient uptake by the onion plant. However, FYM, vermicompost and RDF also performed good and found at par with poultry manure. Poultry manure application was found to be a better organic alternative to substitute recommended nitrogen.

Key Words : Onion, poultry manure, yield, quality, organics, vermicompost.