

## Development and evaluation of a multipurpose tool bar for mini tractor suitable for the cropping pattern of middle Gujarat region

■ KAPIL MANDLOI, R. SWARNKAR, YAGNIK C. YOGANANDI, PARTH PATEL AND K.L. DABHI

Received : 26.05.2017; Revised : 13.08.2017; Accepted : 27.08.2017

See end of the Paper for authors' affiliation

Correspondence to :

**YAGNIK C. YOGANANDI**  
Department of Farm  
Machinery and Power  
Engineering, College of  
Agricultural Engineering and  
Technology (A.A.U.),  
GODHRA (GUJARAT) INDIA

■ **ABSTRACT** : A mini tractor drawn multipurpose tillage tool has been developed by Anand Agricultural University suitable for seed bed preparation at wapsa conditions under sandy loam soil of middle Gujarat Agro-climatic zone in a single operation. The implement consisting of iron ploughs for tillage and clod crusher for breaking clods which is useful for preparation of seed bed in a single pass with a saving of about 20% in the cost of the operation as compared to the cultivator. Therefore, it is recommended for farmers of the region to prepare the seedbed by using the developed implement.

■ **KEY WORDS** : Mini tractor, Multipurpose, Tillage tool, Clod crusher

■ **HOW TO CITE THIS PAPER** : Mandloi, Kapil, Swarnkar, R., Yoganandi, Yagnik C., Patel, Parth and Dabhi, K.L. (2017). Development and evaluation of a multipurpose tool bar for mini tractor suitable for the cropping pattern of middle Gujarat region. *Internat. J. Agric. Engg.*, **10**(2) : 450-456, DOI: 10.15740/HAS/IJAE/10.2/450-456.