

HAND TRACTOR ATTACHMENTS (HARVESTER and TRANSPLANTER)

Specifications of RTA:

- Capacity: 1.6 ha/day
- Planting Distance: 30 cm x 20 cm
- Number of Rows: 4
- Row Distance: 30 cm
- Field Efficiency: 80%
- Planting depth: 3-5 cm
- Power Requirement: 7 hp Diesel Engine (minimum)

Specifications of RHA:

- Capacity: 0.5 ha/ day
- Working Width: 0.8 meter
- Loss Ratio: < 3.5%
- Impurity Ratio: 6%
- Power Requirement: 9 hp Diesel Engine (minimum)

**A new and alternative technology
in planting and harvesting rice**



for more information, please write, fax, call, or email:



**DEPARTMENT OF SCIENCE AND TECHNOLOGY
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER**

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Increase Hand Tractor Utilization in the Countryside

A relatively new concept in rice mechanization has come through the development of the Rice Transplanter Attachments (RTA) and Rice Harvester Attachments (RHA). The rice transplanting and harvesting implements can be readily mounted to and dismantled from the common hand tractor. The availability of such implements will significantly increase further the utilization of hand tractor in farm areas as well as reduce the cost of farm level mechanization that will directly benefit the farmers, rice field owners, and planters.

Both technologies conform to the Philippine Agricultural Engineering Standards (PAES).

Benefits

- Efficient and effective transplanting and harvesting functionalities will be added to plowing, tilling and harrowing of hand tractor
- Minimized delays in transplanting and harvesting period and its high labor cost due to lengthy job

Target Beneficiaries

- Rice Farmers
- Agri-cooperatives
- Local Fabricator Shops

Priority Area

- Countryside Development and Inclusive Growth

Research Program

- Enhancing Rice Production and Post Production Efficiencies through the Improvement and Use of Appropriate Technologies

Partner Institutions

- Metals Industry Research and Development Center (MIRDC)
- Philippine Center for Post-Harvest Development and Mechanization (PhilMech)
- Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD)
- Project Management and Engineering Design Services Office (PMEDSO)

Rice Harvester Attachments (RHA)



Rice Transplanter Attachments (RTA)

