A project of Voluntee 's in Asia

## Kabaryolo Moolbar

ITDG Agricultural Equipment and Tools No. 4
Published by :
Intermediate Technology Publications, Ltd. 9 King Street London WC2E 8HN United Kingdom

Paper copies are 0.50 British pounds.
Available from:
Intermediate Technology Publications, Lta. 9 King Street London WC2E 8HN United Kingdom

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AGRICULTURAL EQUIPMENT AND TOOLS FOR ̈ FARMERS DESIGNED FOR LOCAL CONSTRUCTION No. 4


## "KABANYOLO" TOOLBAR

## "LABANICLO" OX TOOLFRANE

DEVMIOPED BY:

DESCRIPTION:

Based on the "UNIBAR" develuped and made by A.R. STOKES, Project Equipment Ltd., Newton Tony, Salisbury, U.K., with locul modifications by L.J. Clarke, Makerere University, Uganda.

This multi-purpose toolframe is shown in plan and side views with a plough stem attached. When fitted with the "ry" frame it can be used as an adjustable-width 3-tine cultivator/weeder.

The tool frame is fabricated from mild steel flat, pipe, bar, channel, angle and box section materials. A simple skid is used instead of a depth wheel.

Noie: Figures in brackets are in millimetres.
KEY:

| ITEM | NAME | QUANSITY | ITEM DESCRTPTION |
| :---: | :---: | :---: | :---: |
| A | MAIN FRAME | 1 | Of $2^{\frac{1}{2}}{ }^{\prime \prime}(63)$ internal diameter, $\frac{7}{4}$ " (6.3) thicik wall üld steel pipe, 381 ( 965 ) long. |
| B | REAR CHANNEL SECTION | 1 | Of $3^{\prime \prime} \times 1 \frac{1}{c}^{\prime \prime} \times \frac{7^{\prime \prime}}{4}(76 \times 38 \times 6.3)$ mile sterel channel section, 7" (178) ling. |
| c | SIDE PIEC: | 2 | of ? " $\times \varepsilon^{\prime \prime}(51 \times 9.5)$ flat mild steel, $15^{\prime \prime}$ (301) long. |
| D | FRONT CRANNEL SECTION | 1 | Of $3^{\prime \prime} \times 1:{ }^{\prime \prime} \times \frac{1}{4}$ " ( $76 \times 58 \times 5.3$ ) mild steel chnnel section, $6 \frac{1}{\%}$ " (lós) long, 3 holes inch <br>  |
| E | HANDLE SIDE PIeCE | 2 | Of $\frac{1}{4}:$ (19) internal diameter pipe, 46" (1168) long. |
| F | HANLLE BRACE | 1 |  (330) long. |
| G | HANDLE BRACE | 1 |  (22O) lonf. |
| H | HANDLF: SICE BRACE | 2 |  (114) long. |
| $\mathfrak{J}$ | SKID CLAMP | 1 | Of $1^{\prime \prime}(2.5)$ internal diameter pipe, 4" (102) long. |
| K | SKID | 1. | cif l" (?⿹) diameter mild steßi romai oar, 25' (635) long. |
| L | STEM BRACKETI | 1 | Of $2^{\prime \prime} \times 2$ " x angle, 6" (152) long. |
| M | PLOUGH STEM | 1 |  (470) long. |







