

LIVINGSTONIA-CART: DESIGN FEATURES

- **Easy to push or pull, no lifting! Loads in excess of 100 kg are balanced over the wheels. User pushes (or pulls) the cart, but does no lifting.**
- **Average user can move 100 kg load 1 km in 11 minutes. (dirt road, reasonably level)**
- **Average user can move 100 kg load 5 km in one hour. (dirt road, reasonably level)**
- **Rugged hardwood frame fastened by bolts and screws**
- **Critical axle nuts provided with locking plates**
- **Wooden frame and body can be easily repaired or modified by local carpenters**
- **Standard 28" bicycle wheels (rear 40 spoke hubs & rims) with pneumatic tyres & ball bearings**
- **Heavy Duty nylon cord tyres**
- **Spare parts (tyres, tubes, bearings, axles etc.) affordably found throughout Malawi**
- **Removable general duty box body, so long planks and poles can be carried directly on frame**
- **Separate frame allows easy fitting of a purpose-built body**
- **Removable sliding front (no tools needed) for easy loading and dumping of loads**
- **Rope holes for tying down bulky loads**

LIVINGSTONIA-CART VS. WHEELBARROW

- Livingstonia-Cart is cheaper than a Wheelbarrow. (Cart cost about K2200).
- Livingstonia-Cart is easier to move than a Wheelbarrow, due to its pneumatic tyres, ball bearing hubs, and large diameter wheels.
- Livingstonia-Cart user does no lifting, as load is balanced over wheels. A wheelbarrow user carries almost half the load with his arms.
- Livingstonia-Cart with its two wheels is laterally stable. Wheelbarrow with one wheel is unstable and keeping it balanced is tiring.
- Livingstonia-Cart carries more weight than wheelbarrow. Cart user can easily move 100 kg loads over many kilometers.
- Livingstonia-Cart has much greater volume than the wheelbarrow. Bulky loads can be easily carried.
- Livingstonia-Cart easily and safely carries long planks and poles.
- Livingstonia-Cart's wooden construction is easily and cheaply repaired by local carpenters.