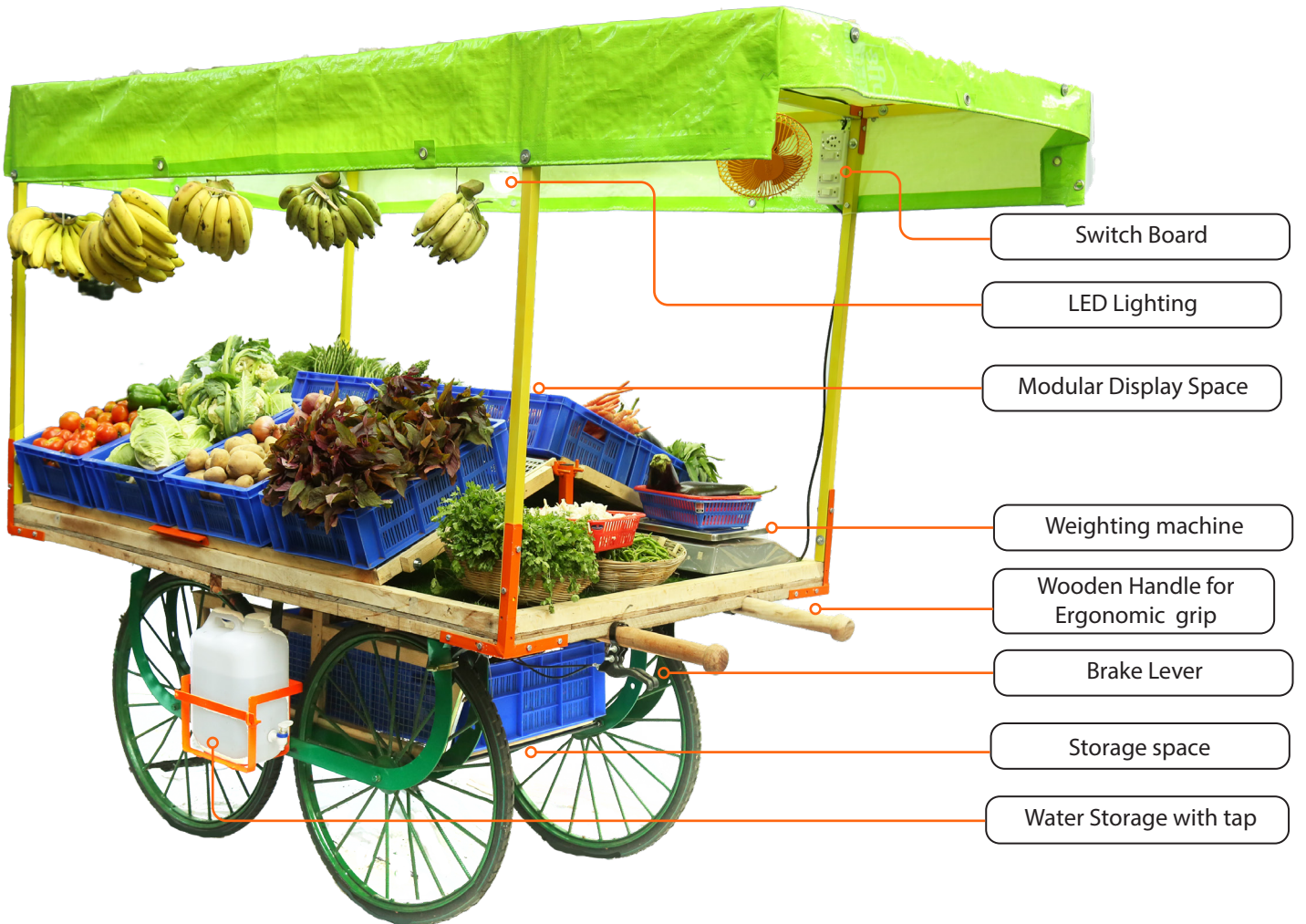




Retrofit Manual Push Cart



The proposed retrofit components for manual pushcarts are easy to assemble and use. The components can convert a simple cart into a value-added cart with design and technology inputs. These inputs will bring better useability to the vendor, customisable display configurations, storage, safe manoeuvring, power source for lighting, charging mobile/radio, water storage, shelter from sun & rain and other features. Above all, this retrofit design and technology intervention can increase earning potential and bring the dignity of work for the vendors.



Specification

USPs

Vehicle Dimension without roof	6'x4'x2'8"
Complete Dimension (with retrofit)	7'x4'x6'4"
Weight of the vehicle	80kg
Retrofit parts weight	20kg
Load Carrying	120kg
Roof Structure	Aluminum square section
Display Shelf	Wood+ Metal
Roofing Sheet	Tarpoline
Display Shelf dimension	4'6" x 4'
Under cart storage dimension	3'x 2'x1'

- Retrofit design
- Multiple display configuration
- Braking and Locking System
- LED Light Bulb
- Extra Bottom Storage
- Modular Garbage collector
- Wooden Handle Grip
- 10 L Water Storage space
- Mobile Phone Charging
- Battery Storage space
- Radio and Entertainment



Cart Features



Wooden Handle for Ergonomic Grip



Extended Roof for Vendors



LED Lighting



Water Storage with Tap



Modular Garbage Frame



Modular Garbage Frame in Open Condition



Brake Levers



Brake System

Cart Features



Secure Battery Space



Phone Charging Socket and Switch



Two level Display



Double Sided Inclined Display



Display Shelf Bracket



Wheel Lock

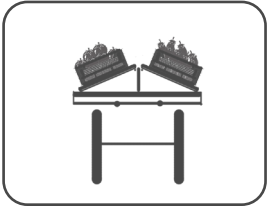


Wire Meshed Storage Space

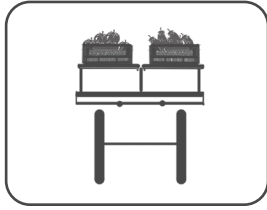


Storage Space with Crates

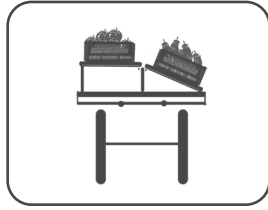
Multiple Display Configurations



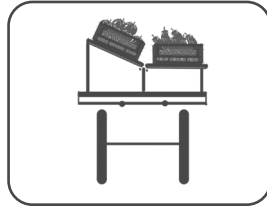
Two Side Double Inclined



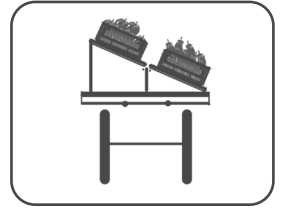
Two Level Display with storage



One Side Half Inclined



One Side Inclined with Storage



One Side Full Inclined



Cart with crates



One Side Half Inclined Display



One Side Full Inclined Display

Display Configurations



Two Level Display with storage



One Side Full Inclined Display



Two Side Double Inclined Display



Two Side Double Inclined Display



Comfortable for both male and female vendors

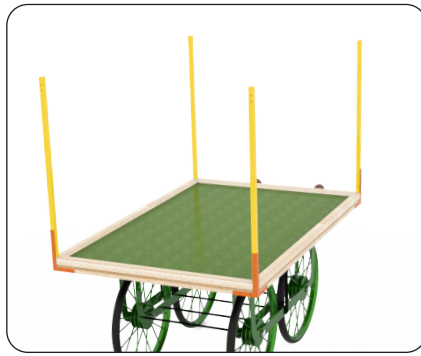


One Side Half Inclined Display

Roof mounting



Step 1: Base Bracket Mounting



Step 2: Pillar Mounting



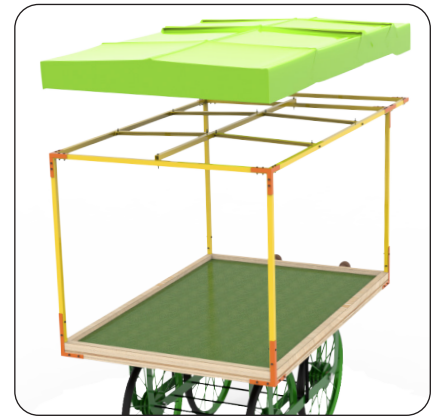
Step 3: Top Tee Connector



Step 4: Roof Structure Assembly

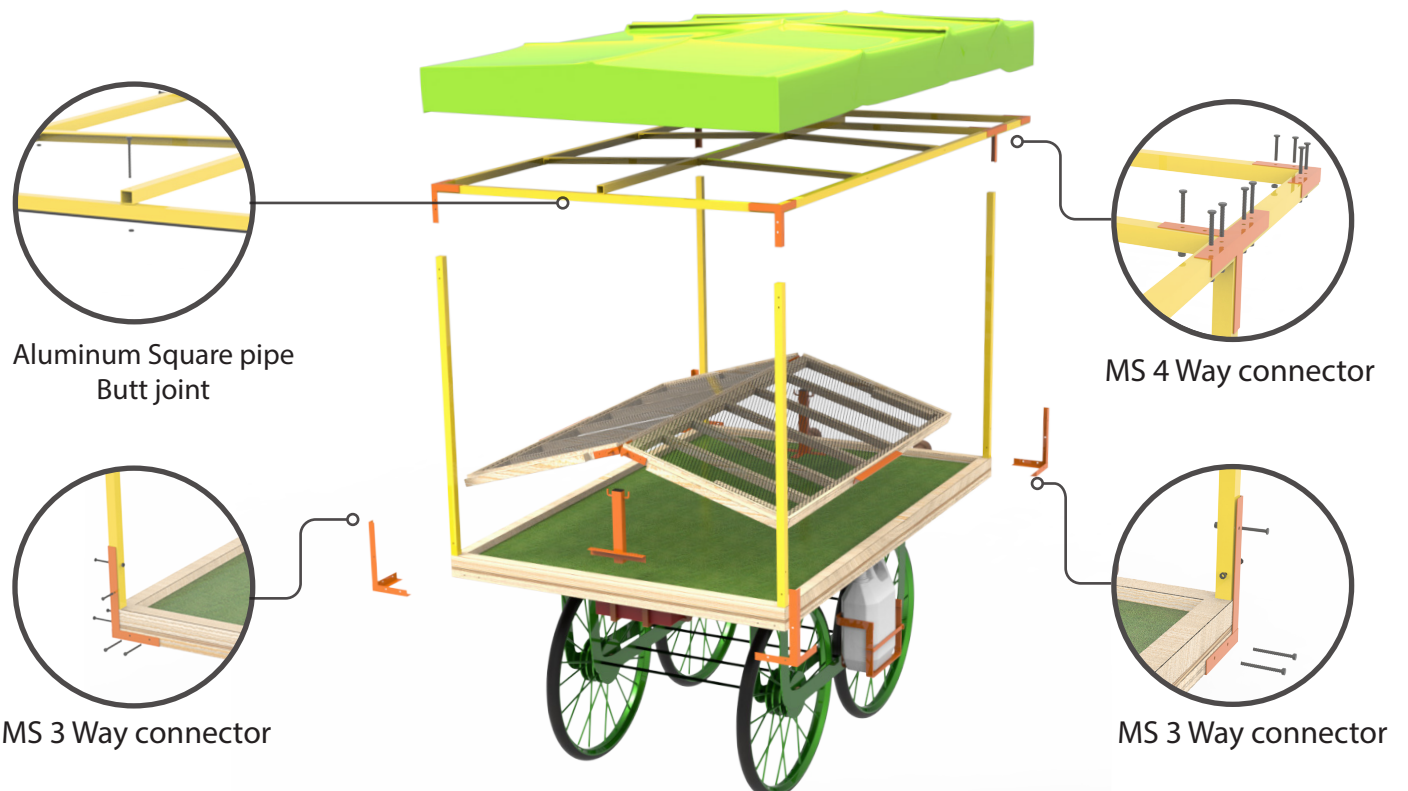


Step 5: Tarpoline Mounting



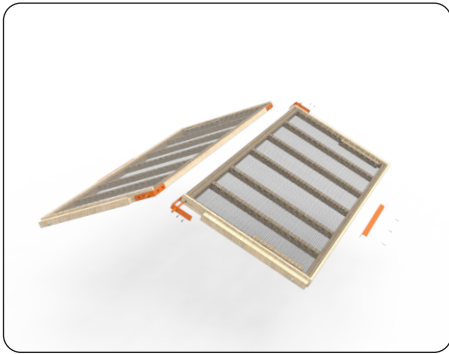
Step 6: Tarpoline Mounting

Roof Assembly overview



Exploded View of Retrofitted manual cart

Display mounting



Step 1: Display Shelf Assembly



Step 2: Display Pillar



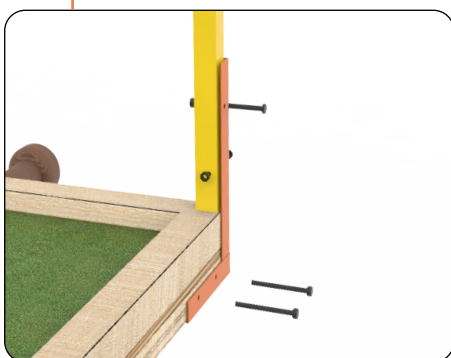
Step 3: Shelf Placement



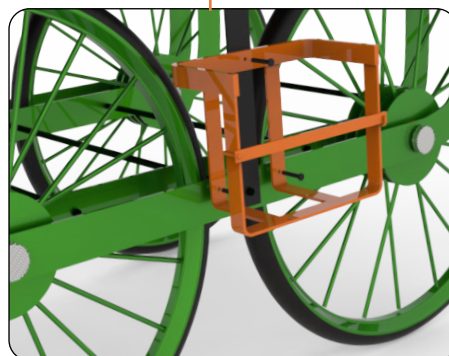
Battery housing



Handle Mounting



3 way connector



Water storage frame



10 L water can with tap



TOWARD ACHIEVEMENT OF NATIONAL & SUSTAINABLE DEVELOPMENT GOALS



Employment



Earning Impact



Reduce food waste