

Kart Corporation has been mandated for the manufacture supply and promotion of innovative and unique AC Mobile Vegetable Vending Cart. It has **revolutionized the era of vegetable vending** in India. This innovative cart has increased the **profit of the vegetable vendors by 25-30% and reduced wastage** as it has a chamber which keeps the vegetable very fresh for longer duration.



Kart Corporation has been into institutional and retail selling of the AC mobile Vegetable vending cart from its inception. We are happy to present our 4th model which is much lighter, durable, more strength than the previous carts and customize to the maximum comfort level of the vendors.

AC mobile Vegetable vending cart

Green Carts work on the principle of the latent heat exchange. Here the area surrounding to the vegetables are kept at the lower temperature through the use of special chemicals put in charged PCM (Phase Change Material) panel in the AC Carts. The PCM panels are refrigerated to solidification and this give the chamber a low temperature.



Our esteemed customer Samriddhii™ has revolutionized the product through their vendor and farmer network in the state of Bihar.

Salient features of the Cart

1. **Light weight** – The cart has been designed to its minimum weight increase the efficiency of the vendor.
2. **Larger carrying capacity:** The cart has been designed for the best utilization of space within.
3. **Low temperature:** We use rechargeable Phase change Material (PCM) technology to keep the vegetable fresh for longer period. Vegetables get chilling injury when keeps at temperature lower than the 4 degree Celsius. Our PCM cells can be charged in any normal refrigerators or deep freezer or at any ice-cream factory at very minimal power consumption. Charged PCM can



keep temperature around it surface maintained for 4-10 hrs depending upon the ambient temperature.

4. **Maintenance free:** The design & technology used makes it almost maintenance free except for mechanical parts like nuts, bolts, tyres and others.
5. **Design:** We understand the vendor's requirement and have been customized to their satisfaction and need. Customers want to have a look at vegetables before they buy. They come to carts if they can see vegetables keeping on carts from a distance. Our futuristic and low energy design attracts customers.
6. **Economical:** The AC cart is economically prized and suits the poor pocket with government interventions.
7. **Source of Income:** Most of our buyers get the return of cart in first year itself and from second year they make an income of Rs. 1500 to Rs. 5,000 per cart from the carts by selling the advertisement space of the carts.
8. **Motorised:** Our carts can be converted into motorized one by mounting/ attaching the single display & storage unit on any licensed motorized vehicle like Scooter, Three-wheel auto, LCV & others.

Table 1: AC Green Carts Summary

Particulars	AC Green Carts
Gross vegetable Carrying Capacity	175-200 Kgs
Vegetable Display Capacity	75-100 Kgs
Vegetable Storage Capacity	80-100 Kgs
Mobility of Carts	Yes
Type of Cart	Tricycle/Motorised
Type of Vegetables	All Types
Type of Coolant	PCM
Coolant Form	In Panels
Advertising Space	Side Panels Roof Top Door Panel
Doors	1 Door
Temperature Maintenance Duration: If Outer Temperature is-	
40 - 45°C	2-3 Hrs
30 - 40°C	3-4 Hrs
20 - 30°C	4-5 Hrs
Below 30°C	5-10 Hrs

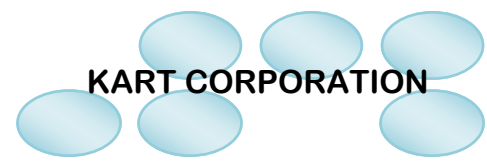


AC Carts: Components

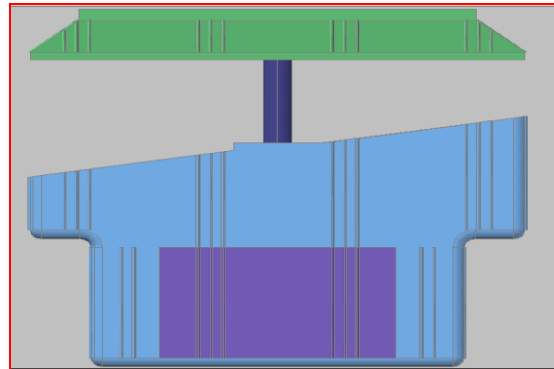
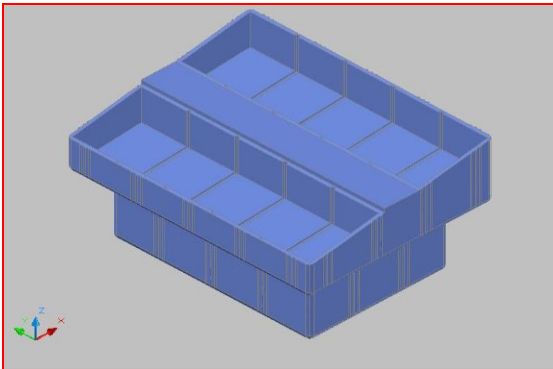
S. No.	Particulars	No.
1	Single Mould main storage & display unit (UV stabilised food grade hydrocarbonic virgin polymer- thickness- 7 mm +/- 2 mm)	1
2	Tricycle Base with Frame (Motorised/Non Motorised)	1
3	Form of AC mechanism – PCM (Phase Change Material)	Panel
4	No of PCM	8
5	Roof Top/ Hood (UV stabilized food grade hydrocarbonic virgin polymer)	1
6	Vertical Column Hollow Pipe for Hood support	2

AC Carts: Dimensions

S. No.	Particulars	Dimensions
1	FRP/Single Mould Fiber Box (UV stabilized food grade hydrocarbonic virgin polymer)	
	Front Dimension (L×H) in ft.	5.5'×2.2'
	Rear Dimension (L×H) in ft.	5.5'×2.8'
	Lateral Dimension (B×H) in ft.	4.2'× (2.2'/2.8')
2	Roof Top (L×B×H) in ft.	5.5'×4.2'×0.6'
3	Vegetable Display/Storage Crates in ft.	1'×1.5'×0.3'
4	Top Hood (L×B×H) in ft.	5'×0.5'×1.67'
5	Dimension of PCMs (L×B×H) in mm	500x200x20 mm



AC Carts: Actual Pictures



Phase Change Materials (PCMs)



AC Carts with PCMs



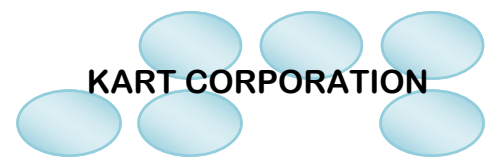


AC Carts in Action at Lucknow (UP)



Flagging of AC Carts at Jaipur by the Chief Minister of Rajasthan





Motorised AC Vegetable Vending Carts





Awards & Recognition

- First Runners Up in 2nd National Awards for Technology Innovation in various fields of Petrochemicals and Downstream Plastics Processing Industry under the category of “Polymers in Agriculture and Water Conservation” by Department of Chemicals and Petrochemicals, Ministry of Chemicals & Fertilizers



List of Clientele

1. Agriculture Technology and Management Agency, Purnea, (Govt. of Bihar)
2. Haryana State Horticulture Development Society (Govt. of Haryana)
3. Maharashtra State Horticulture and Medicinal Plants Board (Govt. of Maharashtra)
4. Directorate of Horticulture, Chattisgarh (Govt. of Chattisgarh)
5. Rajasthan Karts Corporation (Jaipur)
6. Orvem Marketing Pvt. Ltd. (UP)
7. Indian Bank (Bihar)
8. Madhya Bihar Grameen Bank (Bihar)

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