

**EMPOWERING THE AGRIPRENEURS WITH
SUSTAINABLE CONTRACT FARMING
THROUGH CONTAINERISED HOME SHELTERS WITH
SOLAR PV ROOF TO POWER THE PUMPS AND DRIP
IRRIGATION SYSTEMS**

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Empowering the VILLAGE FARMER as a Grower / Growing partner to
MULTIPLE their income through sustainable Contract Farming with zero
percent interest loans without collateral security WITH A CONTAINERSIED
HOME SHELTERS IN THEIR FARMLAND WITH OFF GRID PV ROOF TO POWER
THE SOLAR PUMP, DRIP IRRIGATION SYSTEMS ETC

Preamble:

India has 14.5 Crore land owning farmers and around 50 Crore Landless farmers,

India has 30 Million Electrically powered agriculture pumps, thus, majority off grid or non-grid connected farmers do not have access to the electricity.

Dry lands, depending upon yearly rain, are no more sustainable in doing agriculture, hence, agroforestry based farming is very necessary and the Indian government has policies to support Agroforestry, drip irrigation but, no electricity has led depriving 80% of Farmers in doing sustainable farming either through Rain water harvesting or bore wells.

Due to Covid migrant farmers have taken shelter in the villages, hence, our proposal to empower the land owners and their Landless contract farmers to access a Containerized home shelter with solar PV roof to run the pumps and drip irrigation systems along with CCTV installations and the future EV charging systems inside their existing remote dry lands.

The Landless farmers, who do contract farming, but, do not have access to the latest skills of KVK, Loan facilities and access to the machinery, hence, the landless farmers are migrating to the Cities.

The price of seeds, fertilizer for the SC/ST farmer are highly subsidized and the Landless farmers have to pay the rent for the land and then make profit, hence, in most of the cases they end up paying higher interest rate on loan and cost of raw materials.

Objective of this Suggestion:

Due to COVID many villagers have gone back to their villages and no jobs, however, they have an opportunity to do the contract farming with our suggestions, which is win-win for the land owner and also the landless farmers.

The proposal is to convert the remote Dry lands, which do not have access to the electricity, to Agroforestry with bore well investigation as the agroforestry needs water source. The large rain water ponds will serve only small area of the land, however, in case of no rain, there will be crop failure.

Whether bore well or rain water harvesting ponds, the electricity is must with good security and CCTV provision as one needs to provide security to the Sandalwood, Cinnamon, Mahagony or any other horticulture crops, hence Solar PV system with a home shelter to place a person 24 x 7 is necessary along with CCTV connectivity to the web, so that the land owner can have the live stream on his mobile and if need be the same stream can be provided to Police, in case of any theft due to expensive sandal wood growing and its protection and also to supervise the growing horticulture crops in between the

sandalwood plants, so that the effectiveness of the Contract farmer be ensured as per the Contract agreement.

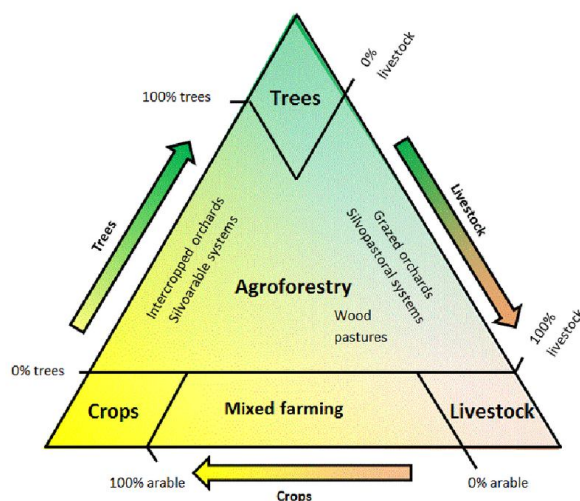
Therefore, it is apparent that a reliable energy source is very much needed as the Government has not provided the electricity to the 80% of the remote farmers i.e only 3 Crore farmers have electric pumps out of 14.5 Crore farmers.

In view of the above, we propose to develop an Innovative design to support farmers to have a containerized home shelter in the Farmland with solar PV roof, so that the energy needed for the light, fans, cooking, Pumping, Drip irrigation systems, CCTV system and other solar fencing etc can be ensured with battery storage. The capacity of PV Roof depends on the land size / farmer's requirement.

The CSR funds can be used to create the Sustainable and clean energy to be accessed by the Farmer on an off grid Solar PV policy of the MNRE / State. Many shipping lines may be having the used and old Containers and the same can be disposed to be deployed in the Farmlands or as CSR the container manufacturing units can provide containers to the Farmers, who wish to have Solar Energy with battery storage.

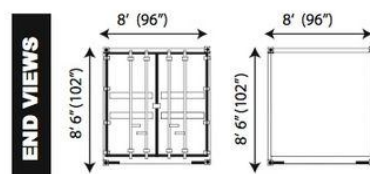
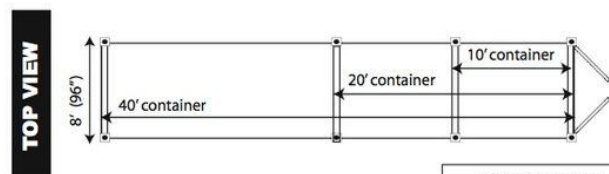
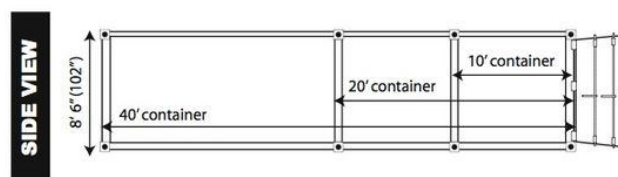
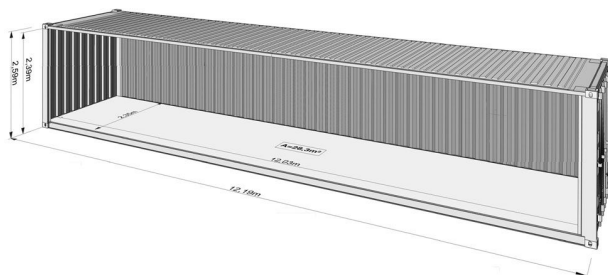
All the energy produced shall be used off grid and the excess energy can be stored in battery, which can be used to charge EVs in future.

We are seeking a CSR Funding partner company to illustrate first PILOT at our farm land in Karnataka.



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Container size:

Dimensions of the 40-foot containerExterior **Dimensions** (in **meters**): 12.19m long x 2.44m wide x 2.59m high.Interior **Dimensions** (in **feet**): 39' 6" long x 7' 9" wide x 7' 10" high.Internal **Dimensions** (in **meters**): 12.025m long x 2.352m wide x 2.393m high. Usable Capacity: 67.7m**Storage Containers**

- Length: 10', 20', or 40'
- Height: 8' 6"
- Width: 8'
- Tare Weight*:
 - 10': 2,508 lbs.
 - 20': 5,015 lbs.
 - 40': 8,377 lbs.
- Flooring: 1 1/16" marine grade plywood
- Corrugated steel sides/end walls
- Watertight gaskets around cargo doors
- Security lockbox (standard on rentals)
- Entry will accommodate pallet loading/unloading

*Specifications may vary depending upon manufacturer and year.

Standard Containers

Suitable for every second cargo

	Maximum Inside Dimensions L x W x H	Door Opening W x H	Top Opening W x H	Tare Weight (kg/lbs)	Cubic Capacity (cu ft)	Maximum Payload (kg/lbs)
20' Dry Freight Container	5.89m x 2.34m x 2.39m 19.3' x 7.7' x 7.9'	2.28m x 2.27m 7'4" x 7'5.1/2"	2.28m x 2.27m 7'4" x 7'5.1/2"	1,900 kg 4,189 lbs	33.0 cu.m 1,166 cu.ft	22,100 kg 48,723 lbs
40' Dry Freight Container	12.05m x 2.34m x 2.39m 39.5' x 7.7' x 7.9'	2.28m x 2.27m 7'4" x 7'5.1/2"	2.28m x 2.27m 7'4" x 7'5.1/2"	3,964 kg 8,739 lbs (3,600 kg net)	67.3 cu.m 2,377 cu.ft	27,397 kg 60,401 lbs

High Cube Containers

Specifically for light, voluminous cargoes or those for excessive height (up to 2.67 m)

	Maximum Inside Dimensions L x W x H	Door Opening W x H	Top Opening W x H	Tare Weight (kg/lbs)	Cubic Capacity (cu ft)	Maximum Payload (kg/lbs)
40' High Cube Container	12.05m x 2.47m x 2.67m 39.5' x 8.1' x 8.8'	2.28m x 2.59m 7'4" x 8'5.3/4"	2.28m x 2.59m 7'4" x 8'5.3/4"	2,900 kg 6,393 lbs	76.0 cu.m 2,684 cu.ft	28,000 kg 61,728 lbs
45' High Cube Container	13.52m x 2.47m x 2.67m 44.0' x 8.1' x 8.8'	2.28m x 2.59m 7'4" x 8'5.3/4"	2.28m x 2.59m 7'4" x 8'5.3/4"	4,119 kg 9,061 lbs	85.7 cu.m 3,026 cu.ft	28,390 kg 62,589 lbs

Open Top ContainersWith Tarpaulin (20' and 40') or no tarpaulin (20').
Specifically for cargoes of excessive height, for loading from above (e.g., by crane), loading from door and through to removable door/corridor.

	Maximum Inside Dimensions L x W x H	Door Opening W x H	Top Opening W x H	Tare Weight (kg/lbs)	Cubic Capacity (cu ft)	Maximum Payload (kg/lbs)
20' Open Top Container	5.89m x 2.34m x 2.38m 19.3' x 7.7' x 7.8'	2.28m x 2.27m 7'4" x 7'5.1/2"	5.42m x 2.22m 17.8' x 7'3.1/2"	2,174 kg 4,793 lbs	31.6 cu.m 1,116 cu.ft	21,806 kg 48,117 lbs
40' Open Top Container	12.04m x 2.33m x 2.37m 39.5' x 7.6' x 7.8'	2.27m x 2.27m 7'5.1/2" x 7'5.1/2"	11.05m x 2.22m 36' x 7'3.1/2"	4,360 kg 9,609 lbs	64.4 cu.m 2,284 cu.ft	26,181 kg 57,720 lbs

FlatsSpecifically for heavy lifts and overwidth cargoes.
Non-containerizable cargo can be accommodated on several flat positioned side by side.

	Maximum Inside Dimensions L x W x H	Door Opening W x H	Top Opening W x H	Tare Weight (kg/lbs)	Cubic Capacity (cu ft)	Maximum Payload (kg/lbs)
20' Flat Rack Container	5.20m x 2.40m x 2.32m 17.1' x 7.9' x 7.6'	2.27m x 2.27m 7'5.1/2" x 7'5.1/2"	5.15m x 2.22m 16.9' x 7'3.1/2"	2,190 kg 4,831 lbs	21.4 cu.m 761 cu.ft	21,470 kg 47,373 lbs
40' Flat Rack Container	11.82m x 2.40m x 2.35m 38.9' x 7.9' x 7.8'	2.27m x 2.27m 7'5.1/2" x 7'5.1/2"	5.15m x 2.22m 16.9' x 7'3.1/2"	5,360 kg 11,806 lbs	44.4 cu.m 1,568 cu.ft	25,229 kg 55,608 lbs
40' Collapsible Flat Rack	12.00m x 2.12m x 2.40m 39.7' x 6.9' x 7.9'	2.27m x 2.27m 7'5.1/2" x 7'5.1/2"	5.15m x 2.22m 16.9' x 7'3.1/2"	5,800 kg 12,780 lbs	44.4 cu.m 1,568 cu.ft	26,200 kg 57,720 lbs

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Sample designs / Photos of Containerised home shelters in Agriculture field to promote Agroforestry in dry lands of India as part of multiplying the income of Farmers, while recharging the ground water due to agroforestry and to protect the environment:

LIVING BIG



Best regards,

For KK NESAR PROJECTS PVT LTD,

Praveen Kulkarni

Praveen Kumar Kulkarni

Chairman of KK NESAR Projects Pvt Ltd

Vadodara, Gujarat.

ENERGY SECURITY AND SUPPLY

ENERGY AND SOCIETY

ENERGY STORAGE

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