

Technologies Commercialised/ Socially Diffused		
S. N.	Title	Remarks/ summary
1	Multi Seed Drill	A multi seed drill that facilitates the automatic sowing of multiple seeds simultaneously. The drill eliminates the needs of a person to control and monitor the sowing and enables the sowing with even low quantity of seeds and in a mixture.
2	Improved Hand Pump	An improvement over existing hand pumps which make the drinking of water easy for a single person by storing about a liter of water in the head of the pump and using it by twisting the tap. It also facilitates the diversion of 25% of water into animal trough.
3	All crop Thresher	A multicrop thresher having the provision of groundnut threshing.
4	KAMAAL-505 Growth Promoter	It is a herbal formulation for plants that protects the crops from various diseases on one hand also provides necessary nutrients on the other hand. The innovation has also been supported for a pilot production and commercialisation
5	Groundnut digger cum separator	A tractor mounted device capable of harvesting the left over groundnuts from the soil. This is otherwise done manually and consumes lots of time and manpower and all the pods are still not picked up. The device overcomes these problems. Testing and validation has been facilitated at Rajasthan Agriculture University, Bikaner. Recognised by National Innovation Foundation. The technology has also been transferred to a company at Vishakhapatnam for application in the development of Sea Beach Cleaner.
6	Bicycle operated Horse Shaver	A mechanism that can be attached to a bicycle and facilitates the horse shaving.
7	Kerosene Gas Stove	A modified stove that ensures the proper combustion of fuel by pre conversion into vapours. It has a novel design of burner that also ensures reduction of sound and blue flame.
8	Seed cum fertilizer drill	A tractor mounted device capable of sowing seeds at equidistance and at the same time also puts in fertilizer thereby reducing double labour. The fertilizer is drilled in such a way that it gives maximum germination.
9	Trench Digger	A device used as an attachment to the tractor and enables the digging of trenches upto 6 ft deep and 1 ft wide.
10	Modifications in Car for Physically Challenged from lower limbs	Attachments/ modifications for cars to make them suitable for driven by physically challenged.
11	Camel driven Bus	A bus built on a camel cart. Used to carry students from remote places to the schools in desert areas.
12	Improved Forage Cutter	Concept of an improved forage cutter was developed by an innovator from Biharigarh, UP and the same was recognised by NIF in the National Competition. GIAN (N) supported him in translating the concept into a viable product. In a short time the innovator developed a new forage cutter that reduces wear & tear, increases ease of operation and makes it safe. Encouraged by the

		<p>local response to this new forage cutter, the innovator has set up a unit for manufacturing and marketing the same in partnership with a local entrepreneur. The Unit is operational now. The innovator has also been supported by <i>GIAN-North</i> for producing and selling a pilot lot of these devices.</p>
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Technologies ready for commercialization		
S. N.	Title	Remarks/ summary
1	Bio Mass Gasifier	This is a device/ mechanism with the help of which any bio-mass waste/ residue can be converted into inflammable gas (producer gas) which in turn can be used to run engines, stoves and furnace etc.
2	Multi- functional farming machine/multipurpose agriculture machine	A multipurpose farm implement that can be used as a seed drill, a weeder and a spray pump and for inter culture operations as and when required.
3	Mosquito Trapper	A device that can be used to trap mosquitoes using a small fan and blue light.
4	Hand Trolley	A trolley designed to be used by porters at Hills
5	Mobile phone operated switch	An electronic device that can be used as an interface between a mobile phone and any electrical device. It facilitates the switch ON or OFF of the device, while at remote, by making a call to the connected phone.
6	Pumpless Stove	It is a modified pressure stove that does not require a pump to generate pressure in the fuel tank. The pressure is generated automatically to the preset level when the stove is used.
7	Solar cum electrical Laminator	A device capable of laminating documents using solar energy. The innovation is based on the concept of a solar cooker where the solar energy is concentrated on the vessel which is kept inside the cooker. Similarly, the innovator here is concentrating the solar energy on metallic plates with the help of mirror. The metallic plates get heated and the document to be laminated is passed through it with the help of rollers. Provision is made to operate it on electrical energy in absence of solar energy.
8	Advanced Tooth Brush	A tooth brush that has builtin dispensing system for tooth paste. Tooth paste is filled inside the small cylinder attached to the brush and appears on the head of the brush by turning the knob.
9	Ceiling cooler	An air cooling device that can be attached to the Ceiling. The cooling is done using water evaporation principle.
10	Remote Fire Cracker	A device for igniting the crackers using a IR remote control
11	Kero-water Stove	A stove that used a separate tank for water which is injected in with the fuel in the form of steam to save fuel.
12	Safety Valve for pressure stoves	A safety device that can be attached to a pressure stove for releasing excess pressure. The device plays an important role in preventing accidents due to stoves.

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