

Major Innovations taken up for Evaluation/ prototyping/ testing/ value addition/ Dissemination and Diffusion (2002 - 2007)					
S. N.	Title	Innovator	State	Year in which started	Remarks/ summary
1	KAMAAL-505 Growth Promoter	Ishwar Singh Kundu	Haryana	2007	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 commercialization
2	Walnut Cracker Machine	Mustak Ahmed Dar	J&K	2007	This is a device for removing the skin of walnuts and for separating the fruit from the shell by cracking it. Development of an Improved prototype of Walnut Cracker in collaboration with Kashmir University, Srinagar.
3	Development of Groundnut Digger for other applications	Yusuf Khan	Rajasthan	2007	This is the development of sea beach cleaner using the base technology of Groundnut digger. The development work has been carried out in collaboration with ARDEE group of industries, Vishakhapatnam.
4	Multi Seed Drill	Gopal Dave	Rajasthan	2007	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.
5	Multi- functional farming machine/multipurpose agricultural machine	Ranjit Singh and Amandeep Singh	Rajasthan	2007	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.
6	Mosquito Trapper	Sanjay Suman	Rajasthan	2007	A device that can be used to trap mosquitoes using a small fan and blue light.
7	Oil extracting from waste rubber	Raghunath Kumawat	Rajasthan	2007	A device that facilitates the process of cracking the waste rubber to extract oil out of it. This oil can be used as a crude lubricant & fuel.

8	Non-electrical water level indicator	Vidit Agarwal	Uttar Pradesh	2007	It is a non-electrical water level indicator for overhead tanks. The device works in such a way that it can be fixed parallel to the tap inside the house and would show the status of water in the tank based on its pressure. A prototype of the device has been developed. The patent application for this device has also been filed.
9	Advanced Tooth Brush	Agastya Narain Shukla	Delhi	2006	This tooth brush has a built-in tooth paste dispenser which dispenses adequate quantity of tooth paste on the surface of the brush whenever desired just by twisting a knob. The brush has a provision of refilling the paste several times and also the brush and also the brush head is replaceable.
10	Magic Lamp	Balram Singh Saini	Haryana	2006	A small battery operated lamp that switches ON in dark and switches OFF in presence of light.
11	Washing Machine	Amrik Singh	Punjab	2006	A machine that can be operated by electrical motor or manually and facilitates the washing of cloths using tumble wash action. The drum of the machine is suspended over two parallel belts which makes it fully shock proof and maintenance free.
12	Energy from Transport	Royaldeep Singh & Team	Punjab	2006	A mechanism that can be embedded into the road to generate electricity whenever any vehicle passes over it.
13	Hand Trolley	Yusuf Khan & Madanlal Kumawat	Rajasthan	2006	A trolley designed to be used by porters at Hills for easy transportation of goods.
14	Solar cum electrical Laminator	Amandeep Singh	Rajasthan	2006	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
15	Modifications in Car for Physically Challenged from lower limbs	Mujib Khan	Rajasthan	2006	Attachments/ modifications for cars to make them suitable for driven by physically challenged.

16	Onion variety	Manaramji	Rajasthan	2006	A variety of onion from Sikar that is early maturing, less water dependent and is superior in taste as compare to other local varieties.
17	Kero Water Stove	Niranjan Prasad Sharma	Uttar Pradesh	2006	A stove that used a separate tank for water which is injected in with the fuel in the form of steam to save fuel.
18	Water Skating Shoes	KB Dwarka Prasad Chourasia /	Uttar Pradesh	2006	A pair of shoes that enables the user to skate over water.
19	Improved Weeder	Pankaj Singh	Uttarpradesh	2006	An improved weeder that has two types of weed removing tools that ensures complete removal of weeds in a single go. Also a rear wheel is provided to support the forward movement with lesser efforts.
20	Manual Wood Cutting Machine	Karuna Kant Nath	Assam	2005	An automatic wood cutting machine that is operated manually. Supplied to DST, GoR for diffusion through Science villages in Rajasthan
21	Safety Valve for pressure stoves	Agastya Narain Shukla	Delhi	2005	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.
22	Control powdery mildew	Sh. Nagainbhai Motibhai Patel	Gujarat	2005	A herbal formulation for the Control powdery mildew. Got evaluated through Rajasthan Agriculture University, Bikaner at ARS, Durgapura, Jaipur
23	Bicycle Sprayers	Mansukhbhai Jagani	Gujarat	2005	A sprayer fitted to a bicycle that creates pressure in the pesticide tank when the bicycle is moved forward and enables automatic spraying with negligible efforts. Supplied to DST, GoR for diffusion through Science villages in Rajasthan
24	Innovative Tong	Arvinbhai Patel	Gujarat	2005	A device for holding the hot vessels from sides which is otherwise done using a cloth etc. Supplied to DST, GoR for diffusion through Science villages in Rajasthan

25	Mobile phone operated switch	Prem Singh Saini	Haryana	2005	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.
26	Electronic Stethoscope	Prem Singh Saini	Haryana	2005	An electronic device used to monitor the heart beats and converts the signals into electrical ones to be heard using an amplifier and speaker system. The device also facilitates the transmission of these signals over FM and thus monitoring in remote places.
27	Pressure cooler based tea boiler	Prem Singh Saini	Haryana	2005	A device for preparing tea automatically using a pressure cooker and electronic circuitry
28	Ceiling cooler	Gopal Saluja	Haryana	2005	An air cooling device that can be attached to the Ceiling. The cooling is done using water evaporation principle.
29	Automatic Identification System for Cars	Prem Singh Saini	Haryana	2005	An electronic device that can be fitted in cars and would have identification code that will allow only the legal vehicles to pass through the security checks.
30	Automatic Parking Light	Ashok Kumar Singh	Himachal Pradesh	2005	An electronic device having light sensor, that switches ON the parking light when the vehicle is parked and any vehicle passes by it. In normal conditions the light is OFF.
31	Milking Machine	Raghava Gowda P	Karnataka	2005	A machine that facilitates the milking of cows automatically. Supplied to DST, GoR for diffusion through Science villages in Rajasthan
32	Organic Pest Control in Vegetables (Grams)	Ms. Mariama Thomas	Kerala	2005	A herbal formulation for Pest Control in Vegetables (Grams). Got evaluated through Rajasthan Agriculture University, Bikaner at ARS, Durgapura, Jaipur
33	Organic Pest Control in Vegetables (Karela)	Ms. Mariama Thomas	Kerala	2005	A herbal formulation for Pest Control in Vegetables (Karela). Got evaluated through Rajasthan Agriculture University, Bikaner at ARS, Durgapura, Jaipur

34	Low Cost Incubator	Kallada Jeffrey	Kerala	2005	A simple incubating unit for hatching eggs. Supplied to DST, GoR for diffusion through Science villages in Rajasthan
35	Septic Tank Baffle System	Rajesh T. R.	Kerala	2005	An improved septic tank baffle system that eliminates the need of a partition normally created in the septic tank and thus saves upon the cost. Supplied to DST, GoR for diffusion through Science villages in Rajasthan
36	Improved Hand Pump	Shyambho o Sharma and Chandan Agarwal	Rajasthan	2005	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.
37	Groundnut digger cum saperator	Yusuf Khan	Rajasthan	2005	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
38	Pit Drill	Nathulal Jangid	Rajasthan	2005	A device that can be used as an attachment to a tractor and helps in digging pits for plantation.
39	Camel driven Bus	Meva Ram Jangid	Rajasthan	2005	A bus built on a came cart. Used to carry students from remote places to the schools in desert areas.
40	DC operated electric Iron	Kesh	Rajasthan	2005	An electric iron that can operates directory on batteries.
41	A cattle Powered prime mover	Sagar Mal Samota	Rajasthan	2005	A camel or other cattle driven set-up that can operate a water pump, a flour mill, a generator or any other device requiring lesser speed.
42	Bicycle operated Horse Shaver	Md. Idris	Uttar Pradesh	2005	A mechanism that can be attached to a bicycle and facilitates the horse shaving
43	Manual Tile Making Machine	Sukhranja n Mistri	Uttrkhan d	2005	A device that facilitates the production of concrete tiles manually.

44	Dry Land agro Forestry	Sundaram Verma	2004	2004	A technique for plantation that enables the plantation using only 1 liters of water at the time of plantation. No additional water is required after that.
45	Tea Making Machine	Ashok Dhiman	Haryana	2004	A machine that facilitates the automatic preparation of tea.
46	Remote Fire Cracker	Balram Singh Saini	Haryana	2004	A device for igniting the crackers using a IR remote control
47	Device for warming shoes / gloves (for cold regions)	Premsingh Saini	Haryana	2004	A device fitted within the gloves and shoes with a filament and a small battery that can warm as and when required.
48	Automatic Motor Coil Winding Machine	Kailash Srivastava	MP	2004	A customized motor winding machine that facilitates the stator winding in a present fashion. The machine also facilitates to count the number of turns simultaneously and can present the total turns to be winded.
49	Modified Solar Cooker	Rajesh Deshmukh	MP	2004	A solar cooker having a number of reflectors placed in such a way that all are concentrating the beam at a point where the vessel for cooking is placed.
50	Water Kerosene Stove	Vyasji Mishra	MP	2004	A stove that used a separate tank for water which is injected to the burner along with the fuel. The innovator claimed that this arrangement saves fuel to some extent.
51	Multifunctional Automatic Starter	Roshanlal Vishwakarma	MP	2004	An automatic starter for motors that have provision for voltage stabilization, phase changeover etc. and precaution for cut-off in case of high voltage.
52	Trench Digger	Yusuf Khan and Nathulal Jangid	Rajasthan	2004	A device used as an attachment to the tractor and enables the digging of trenches upto 6 ft deep and 1 ft wide.
53	Cauliflower	Jagdish Pradash Pareek	Rajasthan	2004	An improved variety of cauliflower having bigger fruit as compare to available varieties. It is also a heat tolerant variety.
54	Multipurpose Bicycle Project	Kamaruddin	Rajasthan	2004	A bicycle fittled with a number of devices which makes it a mobile workshop having facility of drilling, sawing, battery charging, grinding etc.

55	Kerosene Gas Stove	Niranjana Prasad Sharma	Uttar Pradesh	2004	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.
56	Pumpless Stove	Sameer-ul Hassan Liyakati	Uttar Pradesh	2004	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.
57	An idea for an improved fodder cutter machine	Chandra Pal Singh	Uttar Pradesh	2004	An improved fodder cutter that has multiple parallel circular blades and is safe as compared to existing cutters.
58	Device for Protection from Rats	Nitin Tyagi	Uttar Pradesh	2004	An electronic device that emits ultraviolet radiations that irritates the rats and they are kept away.
59	Improved Dosa Burner	Sarvesh Sharma	Uttar Pradesh	2004	A dosa burner having better efficiency.
60	Improved Needle	Vinay Tyagi	Uttarakhand	2004	A improved needle that has facility of putting thread with ease.
61	Low Cost Film Projector	Horilal Vishvakarma	Uttarakhand	2004	A moving film projector that can be mounted on a rickshaw and operated on the road side.
62	Arc Check Dam	Bhanji Bhai	Gujarat	2003	An improved design of Check Dam having the shapes of Arcs which gives extra strength to the structure for load bearing and reduces the cost of construction. One has been replicated at Jaipur.
63	Electronic Robot	Prem Singh Saini	Haryana	2003	An electronic device that can move of its own, can detect water, fire, obstacles, can take images and videos and can also transmit them, it can fire small diwali crackers etc.
64	Herbal Medicine for Kidney stone	Ramesh Nehra	Rajasthan	2003	A herbal formulation that helps in dissolving the stones in kidney.
65	Seed cum fertilizer drill	Hazarilal Ojha	Rajasthan	2003	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. Recognised by National Innovation Foundation.

66	Improved Forage Cutter	Karanpal Vishvakarma	Uttar Pradesh	2003	The device is a modification over existing fodder cutters such that it reduces wear & tear, increases ease of operation and makes it safe. The innovator has been supported by GIAN-North for its prototyping and pilot lot production and commercialization.
67	Power Saving Technical Pump	Ram Naresh Yadav	Uttar Pradesh	2003	An innovator from Kanpur, UP developed a pump prototype that saves energy (electricity, diesel) by a factor of 60%. This innovation was honoured by NIF in its National Competition of Innovation. Incubation support was provided to the innovator through GIAN-N.
68	Heat Snatcher	Hari Kisan	Delhi	2002	A device that traps the heat from the stove which is otherwise carried away by the air and gives it back to the vessel.
69	LPG Kit for two wheelers	Ram Kumar	Haryana	2002	A kit that can be attached to any two wheeler that makes it suitable for operation on a LP Gas.
70	All crop Thresher	Madanlal Kumawat	Rajasthan	2002	A multicrop thresher having the provision of groundnut threshing.
71	Steam Operated Stove	Rajiv Agarwal	Uttar Pradesh	2002	A stove that used a separate tank for water which is injected over the flame in the form of steam. This produces the producer gas that enhances heat and this saves fuel.
72	Tooth Extraction Machine	Rahul Bihari	Uttar Pradesh	2002	A machine to assist dentists for extracting tooth. It saves the efforts required in removing a tooth.
73	The Modifications to the stick for the blind	Mayank Shekhar, and Team	Uttarakhand	2002	An electronic stick for visually challenged people that raises alarm if there is any obstacle ahead or any level difference on the surface or if the user encounters water etc.

Major Innovations under process for Evaluation/ prototyping/ Value addition			
S. N.	Title, State	Year in which started	Remarks/ summary
1	Attachment for road roller, Rajsthan	2007	An attachment that enables the easy transportation of heavy roller by any vehicle of sufficient capacity to the site of work.
2	Multipurpose, portable food processing device, Haryana	2007	The device is a combination of a distillation unit, a grinder, beater, and a pressure cooker. It can be used to extract the essence from Aloe Vera, Amla and any other herb. The innovator is using the same device for producing different products.
3	Banana leaf products & machine, Rajasthan	2007	Machine to peel separate layers from banana stem, each layers used for different products & technique to develop articles from same. The innovator has developed paper, mates, baskets and like products from it.
4	Biomass Gasifier & engine, Rajasthan	2007	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.
5	Compressed air based two wheeler, Rajasthan	2007	Modified two wheeler that can be operated over compressed air instead of any fossil fuel. The innovator has also proposed to developed an engine having six strokes instead of four. The four strokes are from IC and two with compressed air.
6	Modified two Cylinder Engine, Punjab	2007	It is a modification in the existing two cylinder engines to give it a continuity which now lacks and restricts the engine from usage in four wheelers. He has modified the crank and the cam in such a way that system becomes continuous and more efficient.

7	Weather controller for desert cooler, Rajasthan	2007	An electronic device to automatically switch ON & OFF the water cooler pump at preset duration to save water and electricity.
8	Solar refrigerator, Haryana	2007	The device being developed which would create refrigeration effect on heating the refrigerant. The heat required is generated by focusing solar energy and the refrigerant used is ammonia.
9	Machine for converting Bio waste into manure, Rajasthan	2007	A machine that facilitate the conversion of bio-waste into manure by preparing proper mixture of waste, water etc.
10	Chaff Cutter, UP	2007	An attachment to the chaff cutter to make them safe.
11	Manual Harvester, Rajasthan	2007	A farm implement that may enables the harvesting manually with much ease and collection of harvested crop automatically.
12	Improved variety of bajra, Rajasthan	2007	This variety is suitable for irrigated and un irrigated condition and yield potential is more as compare to other varieties. It dual purpose for grain and fodder in irrigated area.
13	Variety of Gwar SR-1, Rajasthan	2007	It is most suitable for arid region and yield is very high as compare to other varieties but fodder yield is low. It is claimed to be disease resistant.
14	Variety of Kabuli chana (Gram) SR-1, Rajasthan	2007	It is grown in temperate regions and it is a good yielder and resistant to wilt disease. It is bold seeded variety similar to export quality. High nutritive value
15	Variety of Moth bean SR-1, Rajasthan	2007	This variety suitable for arid and semi arid condition, yield potential is high as compare to other varieties and short duration mature. It is dual purpose grain and fodder. Resistant to insect-pest and diseases.

16	High yielding variety of Tomato, Haryana	2007	A tall plant variety ( <i>about 16 feet</i> ) and high yield potential ( <i>about 100 kg/plant</i> ) in a life cycle. It is fully organic and its life cycle is one year. Resistant to insect-pest and diseases.
17	Variety of Tinda , Rajasthan	2007	It is a community practiced variety and is local to <i>Kir</i> community of <i>Med</i> region of Jaipur. It has high yield as compare to other varieties and is good in taste. Market value is high because of round shape of fruits and attractive color.
18	Improved variety wheat, Rajasthan	2007	This variety has 4-5 spikelets on one tiller but any varieties have not more than one spikelet on a tiller in case of wheat crop.
19	Improved variety of Date plum , Rajasthan	2007	A high yielding variety ( <i>av. 400kg/plant</i> ) as compare to other commercially available date varieties and varieties released by RAU, Bikaner which has an average production of 40-100 kg fruits per palm.
20	Control of leaf-curl in vegetable crops , Rajasthan	2007	It is claimed that the said problem can be addressed by making a solution of the extract of tender leaves of <i>kachubda</i> , <i>higonda</i> and seeds of <i>khati-leemba</i> and added <i>jiggery</i> in extract.
21	Bio-pesticide , Rajasthan	2007	An effective bio-pesticide is claimed to be developed comprises 1. Fresh cow urine of Indian breed 2. Some Copper Sulphate and desi tobacco is added 3. About 5% Neem oil with APSA-80. 4. Tulsi leaves about 1%

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