

List of New Technologies developed by IARI

1. Varieties					
Field Crops	2005	2006	2007	2008	2009-10
Wheat	Pusa Vishesh (HD 2851), Pusa Gold (WR 544)	Pusa Wheat 107 (HD 2888), Pusa Tripti (HD 2833)	Pusa Wheat 111 (HD 2932)	Pusa Wheat – 109 (HD 2894), Pusa Wheat – 110 (HD 4713)	HD 2967*, Pusa Basant (HD 2985), Pusa Bahar (HD 2987)
Rice	Pusa Basmati-4 (Pusa 1121), Pusa Sugandh-5 (Pusa 2511)	Jaldi Dhan – 13, PNR-546	Improved Pusa Basmati – 1 (Pusa 1460)	Pusa Basmati 6 (Pusa 1401)	
Pearlmillet				Pusa composite 443	Pusa Composite 612
Maize	Pusa Composite-3, Pusa Composite 4	AH-58 (PEHM-3)			
Chickpea	Pusa 1088 (Kabuli), Pusa 1103 (Desi), Pusa 1105 (Kabuli)	Pusa 1108 (Kabuli), Pusa 547 (Desi)	BGD 128 (Kabuli)	Pusa-2024 (Kabuli)	
Pigeonpea	Pusa 991, Pusa 992	Pusa 2001		Pusa 2002	
Mungbean	Pusa Ratna				Pusa 0672
Pea	DDR 55 (Pusa Mukta)				
Lentil		Pusa Lentil 5 (L 4594)			
Cowpea	Pusa 578				
Soybean	Pusa 9712	Pusa 9814			
Mustard	Pusa Karishma (LES-39), Pusa Mahak (JD-6)		Pusa Mustard 21 (LES 1 27)	Pusa Vijay (NPJ-93), Pusa 22 (LET -17), Pusa -24 (LET-18)	Pusa Tarak (EJ-13), NPJ-112 (Pusa 25), NPJ-113 (Pusa 26), EJ-17 (Pusa 27)
Karan Rai		Pusa Aditya (NPC-9)			
Forage sorghum	Hybrid PCH-106, Hybrid PCH-109	Pusa Chari 615			
Cotton			PSS-2 Arvinda		

Vegetable	
Cauliflower	Pusa Kartik Sankar, Pusa hybrid-2, Pusa Meghna, Pusa Sharad, Pusa Paushja Pusa Shukti
Cabbage	KGMR-1(F1 hybrid)
Onion	Pusa Madhvi , Pusa White Round
Brinjal	Pusa Hybrid -5, Pusa Hybrid-9, Pusa Shyamla, Pusa Uttam, Pusa Ankur
Tomato	Pusa Hybrid-8, Pusa Hybrid-2, Pusa Rohini, Pusa Sheetal
Carrot	Pusa Rudhira (IPC-122), Pusa Asita (IPC-126) (Black), Pusa Nayanjyoti
Bottle gourd	Pusa Hybrid-3, Pusa Santushti, Pusa Naveen
Bitter gourd	Pusa Hybrid-2, Pusa Vishesh
Luffa guard	Pusa Sneha
Cowpea	Pusa Komal
Chilli	Pusa Jwala
Cucumber	Pusa Uday
Flowers	
Rose	Pusa Mohit, Pusa Abhishek, Pusa manhar , Pusa muskan, Pusa Urmil, Pusa Ranjana, Pusa Mohit, Pusa Arjun, Pusa Ajay, Pusa Komal, Pusa Shatabdi
Gladiolus	Urmi, Jyotsana, Gulaal, 'Shabnam, Urvashi
Marigold	Pusa Narangi Gainda, Pusa Arpita

2. Other Technologies

Horticulture	<ol style="list-style-type: none"> 1. Mango- Mallika, Amrapali, Pusa Arunima, Pusa Surya 2. Grape- Pusa seedless, Perlette, Beauty Seedless, Pusa Urvashi, Pusa Navrang 3. Citrus- Kinnow mandarin, Mosambi sweet orange, Kagzi Kalan lemon 4. Guava- Allahabad Safeda, Pusa Srijan Sub-tropical peach- Flordasun 5. Papaya- Pusa Dwarf (seed), Pusa Nanha (seed), Papaya seedling 6. Sale of scion bud wood and bud sticks
Seed Sc. & Tech.	<ol style="list-style-type: none"> 1. Hybrid cauliflower seed production technology 2. Hybrid seed production 3. Treatments 4. Reliable and accurate assessment of seed quality attributes 5. Methods for more precise assessment of s planting value of the seed
CPCT	<ol style="list-style-type: none"> 1. Plug Tray Nursery Raising Technology 2. Protected Cultivation Technology of High Quality Tomato & Cucumber 3. Insect Proof Net House Technology 4. Walk in Tunnel Technology for off season Vegetable Cultivation
Post Harvest Technology	<ol style="list-style-type: none"> 1 Dehydrated Carrot Shreds 2 Osmotically Dried Aonla Segments, Shreds & Powder 3 Ripe Mango Powder 4 Packaging and storage of fresh fruits and vegetables 5. Capsicum salsa
Plant Pathology	<ol style="list-style-type: none"> 1. Diagnostic Kit, Polyclonal Antisera , PCR based Detection Kit 2 Gene Construct: Coat Protein (CP), Nucleo-capsid protein (NP), Replication Initiator protein (ReP) 2. Spawn Production Technology 3. Bioformulations for organic farming 4. Fungal Identification services 5. Pusa-Th3 (SD-SA-FS) a bio-formulation of <i>Trichoderma harzianum</i>
Entomology	<ol style="list-style-type: none"> 1. Nuclear Polyhedrosis Virus 2. Production Technology of Vermicompost 3. Installation of the apiary 4. Safe and efficient production of Trichocard 5. Summer handling of parasitoids and predators in Entocool 6. Parthenium management 7. Pusa bin
Nematology	<ol style="list-style-type: none"> 1. Biopesticidal Pusa Nemagel 2. An apparatus for differentially extracting clean infective larvae of different entomopathogenic nematode species from infected insect cadavers
Agricultural Chemicals	<ol style="list-style-type: none"> 1. New Organophosphorus Nematicides 2. Pusa hydrogel 3. Powdered <i>Azadirachtin-A</i> rich concentrate from neem 4. Analysis of pesticide residues in food commodities

	5. Polymeric Seed Coats Based on Bioactive Botanicals
Plant Physiology	<ol style="list-style-type: none"> 1. 5-sulp-hosalicyclic acids extends the vase-life of cut gladiolus flowers 2. Delay in reaping of tomato fruits by 1- methylcyclopropene (1-MCP)
Microbiology	<ol style="list-style-type: none"> 1. Bioformulations with <i>Trichoderma harzianum</i> Th3 2. Blue Green Algal Biofertilizer 3. Commercial production of algal bio-fertilizer 4. <i>Aspergillus niger</i> (strain AN 27) based bioformulations for management of soil borne diseases of crop plants 5. Biofertilizer (<i>Rhizobium</i>, <i>Azotobacter</i>, <i>Azospirillum</i> and Phosphate solubilizing bacteria) production technology 6. VAM production technology 7. Compost inoculant production technology 8. <i>Azotobacter</i> liquid bio-fertilizer
Agricultural Physics	<ol style="list-style-type: none"> 1. Seed treatment through static magnetic field
Soil Science	<ol style="list-style-type: none"> 1. Soil test based balanced fertilizer recommendations for targeted yield of crops 2. Soil test based integrated fertilizer recommendations for targeted yield of crops 3. Technology for Preparation of Enriched Compost 4. Developed soil-test and crop-need based balanced fertilizer recommendations 5. Soil test based integrated nutrient management for field crops
Environmental Science	<ol style="list-style-type: none"> 1. Natural Resource Characterizing Software for field/ laboratory spectrometers 2. Natural Resource Characterizing Software for aircraft/ satellite data processing 3. USAR–An EIATool for managing salt affected agricultural lands & irrigation waters 4. ResourCeS – A Regional Resource Characterizing System
Agricultural Engineering	<ol style="list-style-type: none"> 1. Okra seed extractor 2. Tractor drawn okra planter 3. Safety intervention for chaff cutter 4. Aqua Ferti seed drill 5. Pusa power operated two row maize planter 6. Pusa wheel hand hoe 7. UMMB Machine 8. Pusa power operated winnower 9. Pusa dal mill 10. Pusa Seed Cleaner 11. Pusa Potato Onion Grader 12. Safe Chaff Cutter