

Technology and Product Portfolio

Sr. No.	Technology/ Product	TRL stage	Patent	Status
1	ADVIKA (Drought-tolerant high-yielding chickpea variety)	9	NA	Released, Gazette notified, supplied to public and private distributors to reach farmers
2	SAATVIK (Drought-tolerant high-yielding chickpea variety, tolerant to wilt and stunt)	9	NA	Released, Gazette notified, supplied to public and private distributors to reach farmers
3	A technology and a devise to increase shelf life of fruits and vegetables	9	Granted	Technology transferred to industry for large-scale manufacture
4	IndRA (90K SNP array for rice)	9	Filed	Technology transferred to private vendors for product commercialization
5	Early-flowering high-yielding chickpea variety	8	NA	Under ICAR-AICRP AVT2 trial
6	Extra-large seeded high-yielding <i>kabuli</i> chickpea variety	8	NA	Under ICAR-AICRP AVT2 trial
7	Erect chickpea variety amenable for mechanical harvesting	8	NA	Under ICAR-AICRP AVT2 trial
8	Salinity-tolerant high-yielding chickpea variety	7	NA	Under ICAR-AICRP AVT1 trial
9	Sheath blight-tolerant high-yielding rice variety	7	NA	Under ICAR-AICRP AVT1 trial
10	Gene edited high leaf and low seed glucosinolate oil seed mustard line	7	Filed	Under ICAR-AICRP AVT1 trial
11	Broad-spectrum anti-fungal peptide	7	Granted	Under Industry-collaborated trial
12	Anti-insecticidal phytochemical and double-stranded RNA	7	To be filed	Under Public Institution and Industry-collaborated trial
13	A method for delaying ripening of fruits and vegetables	7	Granted	
14	Rice line with high phosphate use efficiency	6	NA	AVT1
15	Plant growth promoting endophyte	5	To be filed	Under Industry-collaborated trial

16	Plant protein as a coloring and flavoring agent for food	5	Filed	Under Industry-collaborated trial
17	Gene-edited high glucoraphanin oil seed mustard line	5	To be filed	Product developed
18	Gene-edited rice with high phosphate use efficiency	5	NA	Technology developed
19	Soil bacterial consortium for nitrogen fixing	5	Filed	Under Industry-collaborated trial
20	A conjugate comprising gold nanoparticles and <i>Venturia inaequalis</i> specific probes and kits comprising the same for the detection of apple scab	5	Filed	Technology developed
21	SpeedSeed: Rapid Generation Advancement Technology for Chickpea	8	Indian complete patent application filed	Technology transfer process is ongoing. Co-development activities are underway to integrate the SpeedSeed technology into UrbanKisaan's GeneRush platform for commercial deployment.
22	SPROUT Platform: Rapid Generation Advancement-Enabled High-Throughput Phenotyping Platform for Chickpea Improvement	8	Indian complete patent application filed	Technology transfer process is ongoing.
23	NIPGR Microbial Consortium – RhizoCure: Rhizospheric Microbiome Engineering for Stress Protection and Crop Growth Promotion	7	Patent filing process ongoing	Co-development of the commercial formulation and field testing of the consortium are ongoing.
24	NIPGR Microbial Consortium – Beru Vrudhi: Microbial Consortium for Stress Protection and Growth Promotion	7	-----	Co-development of the commercial formulation and field testing of the consortium are ongoing