Azad Mahak (KMR(E)-15-2):

Recommended for entire Uttar Pradesh, Yield Potential (24-25 q/ha) and bold seed and size (5.20g/1000seed), suitable for Early sown condition, Early maturity(120 125 days), escapes from disease specially Alternaria blight and White rust, tolerance to high temperature at seed germination stage, Oil content range (41.6



42.1%) oil yield 852 kg/ha which is 9.20% higher in compression to PM 27(ZC)

Azad Chetna (TKM 14-2):

Recommended for entire Uttar Pradesh, Yield Potential (12-14 q/ha) and bold seed size(3.3g/1000 seed), suitable for early sown condition, early maturity (90-95 Days), escapes from disease specially Alternaria blight and White rust, most suitable for multiple cropping, oil content ranged (42.2 -42.4%), oil yield 608 kg/ha which is 18.98% higher in compression to Bhawani (ZC).



Aparna (LCK 1611):

Suited for irrigated condition, medium plant height, matures in 140 days, non shattering medium size capsule, seed medium bold, colour light brown, average yield 13-15 q/ha, oil content 37%, Omga -3 54%, resistant to rust & wilt.



Shekhar 8 (KLB 13-6):

Suitable for timely sown condition of whole U.P. specially for Bundelkhand region having dark green foliage, semi -erect, seed redish grey, profuse branches with high number of pods, maturity (105-115 days), bold seeded, good yielder (16-18q/ha), wide ad



aptability, resistant to wilt and rust, tolerant to pod damage easily cooked having good taste and palatability, easily digestible having antioxidant property

Wheat (K-1616):

Suitable for rainfed timely sown condition of whole U.P. bold, oblong, amber colour and semi heard texture of grains, height 106 cm, early flowering 81 days and maturity 121 days and high test grain weight 82.0gm. High protein content 11.77%, national average



35.2 q/ha. resistance against brown, yellow and black rust along with leaf blight.

Barley (K-1425):

Suited for saline/alkaline condition, timely sown, irrigated ecosystem, crop mature in 120-125 days, plant height 90cm, grain yellow coloured bold seeded with 12.7 % protein, av yield 30-35q/ha and yellow & brown rust resistant and tolerant to foliar blight



Azad Pragva (LCK-1516)

Developed for whole Uttar Pradesh for irrigated condition, yield potential 2 028kg/ha and averge yield 1360kg/ha Oil yield 500kg/ha. Seed oil content is contains 35%, Omega-3 content (45%), Resistant to Powdary mildew rust and moderately resistant to wilt. moderately resistant to bud fly, blue flower, Plant height medium, brown colour seed with medium seed weight.





Varietal Development

High Yielding Varieties

University has developed more than 300 high yielding, diseases resistant varieties of cereals, oilseeds, pulses and vegetables. Out of which, following varieties are internationally known.

International Fame

Wheat	Deva (k-9107)	Adopted by Bangladesh for large scale cultivation
	Ujiyar (K-9006)	Adopted by Nepal, released as Achutya
Lentil	Malika (K-75)	High export quality & high seed demand

Nationally Fame: University developed varieties are also occupying sizeable area at national level given as under:

Chickpea: KGD-1168	Wilt resistant, very popular in west Bangal, Assam, Orissa, Bihar
Field pea: Rachna	Powdery mildew resistant, popular throughout country
Table pea: Azad P-3	High yielding, Popular throughout country
Urdbean: T-9	Black Seeded, widely adopted throughout country
Urdbean: Shekhar-2	Green seeded, widely adopted throughout country
Urdbean: Azad -3	Black seeded, widely adopted throughout country
Moongbean: KM-2241	Multiple diseases resistance, synchronous maturity, widely adopted throughout country
Moongbean: Azad Moong-	YMV resistant, high yielding
Mustard: Varuna	High yielding, popular throughout country
Yellow Sarson: Pitambari	High yielding, high oil content
Wheat : Deva	High Protein, High yield
Wheat : Halna	Thermo tolerant, suited for late sown condition
Wheat : K-1317	For restricted irrigation

Most popular among farming community

Wheat	Deva, Ujiyar, Halna, Unnat Halna, Mandakini, Mahi, Mamta,
	Shatabadi, K 1006, K1317
Barley	K-557, Prakhar
Sorghum	Bundela
Pigeonpea	Amar, Azad
Urdbean	Shekhar 1, Shekhar 2, Shekhar 3, Azad 1, Azad 2, Azad 3
Mungbean	Sweta, Azad Moong 1
Chickpea	Avarodhi, Udai, KGD 1168, KWR 108, Radhey
Field pea	Rachna, Sapna, Swati, KPMR 400 (Indra), KPMR 522 (Jai)
Lentil	Malika, Azad Masoor 1, Shekhar 2, Shekhar 3
Groundnut	Divya, TG 37 A, Utkarsh, Parkash, Kaushal, Avatar (Zaid)
Mustard	Varuna, Rohani, Maya, Kanti, Urvashi, Ashirvad
Yellow Sarson	Pitambari
Toria	Bhawani, Tapeswari
Sesame	Shekhar, Pragati
Linseed	Laxmi, Padmini, Shekhar, Parvati, Surya, Anu, Aparna
Tomato	Azad T8
Vegetable pea	Azad P3
Cucumber	Kalyanpur green

Varieties -Scientists were sensitized and motivated for development of need based location specific agro-techniques and varieties of different crops.

- ? During period under report three varieties viz; linseed-01(Aparna), Azad Pragya, toria-01 (Chetna) & Mustard-01 (Azad Mahak) and were notified by CVRC.
- During period under report three varieties viz. Wheat -1(K1616), Barley-1 (K 1425) & Lentil-1 (KLS 1431) were identified by State Seed Subcommittee.



Wheat	C-13 (Awnless), C-46, C-13 (Awned), Padova I, Padova II, K 19-3, K-21, K-25, K-53, K-54, K-68, K-65, Kundan (K-101), K-816, K-852, Bithoor(KML-7406), K Poorvi (K-7410), K-72(K-7229), K-78(K-827), Sangam (K-7915), Mandakini(K-9351), Triveni (K-8020), Magahar(K-8027), K-088(K-8804), Indra(K-8962), De va(K-9107), Ujiyaar(K-9006), Gomti (K-9465), Atal(K-9644), Halna (K-7903), Gangotri (K-9162), Prasad (K-8434), Unnant Halna(K-9423), Naina(K-9533), Shatabdi (K-9307), Sona (KD-9851), Mahi[K-0402), Mamta(K-0607) K-1006, Deva K-1317 and K-1616
Barley	C-251, CN-292, CN-294, K-12, K-14, K-18, K-19, K-24, K-169, K-252, Jyoti(K-572/10), Amber (K-71), Vijaya, Azad(K-125),K-253, K-257, K-141, K-318, Lakhan (K-226), Jagrati(K-287),K-341, K-370,Manjula(K-329), K-1155, Geetanjali(K-1149), Pragati(K-0508), Preeti(K-409), Haritima(K-560), Archana (K-0713), Ritambhara(K-551), Narmada (K-603) Prakhar and K1425
Paddy	Ashwani and Usar 1
Maize	K-41, Azad Uttam, Sharad Mani, Azad Kamal, Chandra Mani, Azad Shankar Makka-1 and Azad Shankar Makka-2
Sorghum	Mau Type 1,Mau Type 2,Bundela,Varsha ,Vijeta

Pulses

Gram	T-3,K-5,Radhey,K-468,K850,K-4,KWR-108,Udai,Pragati,Sadabahar-13,Avrodhi KGD - 1168 and K-3256(Kabuli)	
Pea	T-163 Shikha Swati Rachna Sapna Indra (KPMR 400) and Jai (KPMR 522)	
Lentil	T-36, T-8, KLS-218, KLB-303, KL-320, Malika, Shekhar-2, Shekhar-3, LentilAzad-1, Shekhar-4(KLB345),KLB 13-6Krish, Krati and KLS 1431 Shekhar-5(KLB-122) and Shekhar-8(KLB 13-6)	
Pigeon pea	T-17, T-7, T-21, Amar & Azad	
Black gram	T-27, T-77, T-65, T-9 Shekhar-1 Azad Urd-1 Shekhar-2 Azad Urd-2 Shekhar-3 Azad Urd-3 & KU-99-21	
Green	T- 44 , K -851 Sweta Swati KM-2241KM-2195 and Azad Moong-1 (KM-2342)	
gram		

Oilseed

Oiiseea		
Mustard	T-11, Laha-101, Type-16, Type-1, Type-10, Type-151, Type-42, Type-9, Type-36, Type-59, B.S-2, B.S-70, K-88, Varuna, Kanti, Shekhar, Rohini, Vardan, Vaibhav, Urvashi, Basanti, Maya, Ashirvad, Pitambari and Azad Mahak KMR(E)15-2)	
Toria	T-9, T-36, Bhawani , Tapeshwari and Chetna	
Sesame	T-12 T-4 T-13 T-78 Shekhar Pragati and Trun	
Linseed	T-1, T -477, T -126, T -603, T -397, Mukta, Hira, Neelam, Garima, Sweta, Shubhra, Luxmi-27, Padmini, Sheela, Shekhar, ShardaGaurav, Shikha, ashmi, Parvati, Ruchi, Uma, Indu,Surya, Rajan,Mau Azad Alsi -1, Mau Azad Alsi -2, Anu (LCK-1021), Aparna and, Azad Pragya (LCK-1516)	
Groundnut	T-25, T-99, T-32, T-28, T-64, Chandra, Kaushal, Chitra, M.A-16, Amber, Prakash, T.G-37A, Utkarsh, Divya and Avtar	
Safflower	Type-65	
Castor	Type-3, Tari-4, Kalpi-6, Chandra Prabha and Balliachayan (7911)	

Vegetable

Vegetable		
Brinjal	Kalyanpur Type -3, Azad B-1,Azad B-2, Azad B-3, Azad Kranti, Azad Hybrid and Azad Sankar	
Tomato	Angoorlata, Type-1, Azad T-2, Azad T-3, Azad T-5, Azad T-6, KTH-1 (Hybrid), KTH-2 (Hybrid) and Azad T-8	
Table Pea	Azad P-1, Azad P-2, Azad P-3, Azad P-4 and Azad P-5	
Bitter guard	K. Sona, Baramasi and Kalyanpur	
Okra	Azad Bhindi-1, Azad Bhindi-2, Azad Bhindi-3(Azad Krishna) and Azad Bhindi-4 (Mohani)	
Chilli	Azad Mirch-1 and Azad Mirch - 2 KCH - 3 (Hybrid)	
Spong guard	Kalyanpur Hari Chikni, Azad torai Chikani -1 and Azad Torai - 2	
Bottle guard	Kalyanpur Long Green, Azad harit, Azad nutan (long) and Azad sankar Lauki-1(Hybrid)	
Bitter gourd	Kalyanpur Baramasi -7 and Kalyanpur sona	
Pumpkin	Azad Pumpkin -1	
Cucumber	Kalyanpur Green	
Sem	Type - 2, Rajni and Azad Sem -1	
Rajmash	Azad Rajama 1	
Lobia	5269	
Zimikand	Azad Suran -1	
Radish	Kalyanpur No-1	
Termeric	Azad haldi-1	
Colocasia	Azad arbi-1	
Onion	Kalyanpur Red Round	
Coriander	Azad Dhania-1 and Azad Dhania-2	
Fennel	Azad sauf-1	
Fenugreek	Azad methi -1 and Azad methi-2	
Ajwain	Azad Ajwain -1	
Nigella	Azad Kalaunji -1	



Cotton	Pramukh, Syamali, Lohit, Vikasha and CAD 4
Tobacco	Azad Kanchan

Varieties developed (Last five years)

Linseed Uma (LCK1101):

Developed for rainfed condition, erect, blue flower, 60 cm plant height, resistant to alternaria blight, rust and wilt, medium capsule, light brown seeded, 7.8 g test weight with yield potential 8-10q/ha.



Developed for irrigated condition, erect, blue flower, 72-75 cm plant height, resistant to alternaria blight rust and wilt, medium capsule, brown seeded, 9.6 g test weight with yield potential 10-12q/ha dual purpose.

Wheat K 1317:

Developed for rainfed timely sown condition of Eastern & Central Uttar Pradesh, Bihar, Jharkhand, West Bengal and Assam, crop matures in 120 -128 days, average yield 27.13 Q/ha and yield potential 54.2 Q/ha, grain contain 43.05 PPM Iron and 38.3 PPM Zinc and resistant to rusts.

Lentil Shekhar 4 (KLB 345):

Developed for late sown conditions, high yielding (18-20 q/ha), early maturity (110 days), resistant to wilt and rust bold seeded with red cotyledons and recommended for whole Uttar Pradesh.

Lentil Shekhar 5 (KLB 122):

Developed for late sown condition (December sowing) for entire Uttar Pradesh, maturity 110 -115 days resistant to wilt and rust, seed reddish grey, small seeded, yield potential 15-16 Q/ha.

Moongbean Azad Moong-1 (KM-2342):

Developed for both Zaid and Kharif season of entire U.P., yield potential 10-12Q/ha, crop matures in 60-62 days, grain Shinee green, synchronous maturity, resistance toYMV, CLS, Anthracnose, Web blight and white fly.

Linseed Surya (LCK-1404):

Developed for zone I which includes Himachal Pradesh,
Punjab, Haryana and Jammu for irrigated condition, yield
potential 2270 kg/ha under best field condition higher Oil
yield 500kg/ha. It contains higher Omega -3 content
(62.34%) than the other existing va rieties of linseed, highly
resistant to rust and moderately resistant to wilt.
moderately resistant to bud fly, blue flower, dwarf, bushy in

habit, twisted aestivation, medium size capsule, brown colour seed with medium seed weight.















