

**G.B. Pant University of Agriculture & Technology
Pantnagar-263145 (U.S.Nagar), Uttarakhand**

Invitation for Expression of Interest (EOI)

The University invites eligible firms to indicate their interest in the commercialization of the improved maize hybrid **PANT POPCORN-1** after technology transfer/licensing for the seed production. EOI should reach latest by **24 December, 2020** to **Dr. N. K. Singh, Professor/Sr. Maize Breeder, Department of Genetics and Plant Breeding, GBPUAT, Pantnagar, email: narendraksingh2@gmail.com, ph. 9412909645**. The minimum bid in this behalf should not be less Rs. 0.50 lakh.

The notice inviting offer shall only be issued to the firms whose EOI is accepted by the university. All rights reserve to Vice-Chancellor.

The salient features of the hybrid are as under:

Pant Popcorn-1

- PANT POPCORN-1 is a popcorn hybrid released for cultivation in North Hill Zone and Peninsular zone of the country.
- PANT POPCORN-1 is a single cross hybrid proposed for:

Northern Hill Zone (Zone I)	:	Jammu & Kashmir, Himachal Pradesh, Uttarakhand (Hills) and NE Hill Region (Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura)
Peninsular Zone (Zone IV)	:	Tamil Nadu, Karnataka, Andhra Pradesh, Telangana, Maharashtra

- PANT POPCORN-1 had zonal average grain yield (over the three years) of 3975 kg/ha in NHZ (Zone-I) and 4997 kg/ha in PZ (Zone-IV) whereas check VL Amber popcorn had grain yield of 2949 kg/ha and 4078 kg/ha in NHZ (Zone-I) and PZ (Zone-IV), respectively.
- PANT POPCORN-1 had yield superiority of 34.79% in NHZ (Zone-I) and 22.53% in PZ (Zone-IV) over the check VL Amber popcorn on the basis of weighted mean.
- PANT POPCORN-1 exhibited high and consistent yield superiority from 13.34% to 53.6% (in NHZ (Zone-I) and from 13.4% to 35.32% in PZ (Zone-IV) across the three years over the check VL Amber popcorn.
- PANT POPCORN-1 had edge over qualifying variety IHPC 1203.
- PANT POPCORN-1 maintained consistent yield superiority over check VL Amber popcorn throughout the locations and years in both NHZ (Zone-I) and PZ (Zone-IV) in coordinated trials.
- PANT POPCORN-1 also has good popping attributes.

Traits	NHZ (Zone-I)		PZ (Zone IV)		
	PANT POPCORN-1 (P)	VL AMBER POPCORN (C)	PANT POPCORN-1 (P)	VL AMBER POPCORN (C)	IHPC 1203 (Q-1)
Popping (%)	91.1	96.3	88.2	86.9	89.4
Vol. before popping (ml/cm ³)	24	20	16.3	14.9	22.8
Vol. after popping (ml/cm ³)	200	250	292.5	225	252.5

- PANT POPCORN-1 is also found responsive to agronomic practices.
- PANT POPCORN-1 has shown moderately resistant (MR) reaction to TLB, resistant to MLB and CLS and moderately resistant to moderately susceptible reaction to BSR in NHZ (Zone-I). In PZ (Zone-IV), PANT POPCORN-1 exhibited moderately resistant to susceptible reaction to TLB, resistant to moderately susceptible to C. Rot, resistant to moderately susceptible reaction to polysora rust and moderately resistant to susceptible reaction to common rust.
- PANT POPCORN-1 has been assigned moderately tolerant score during 2016 and 2018 and moderately susceptible score during 2017 against the *Chilo partellus* based on LIR.