**Achievements (1st January 2022 – 31st December 2022)**

**Quality Assurance**

Organised the following

1. **NABL Accreditation:**
	* 1. Identified, developed & trained internal teamfor Seed testing as per NABL accreditation requirement.
		2. Our QA team cleared the final audit and we got NABL accreditation in the field of “Testing” for “Germination, Moisture and Physical Purity parameters”.
2. **Field Monitoring**
* Field Monitoring in 11,000 plus Ac in Paddy, Maize, Okra, Tomato and Chilli in “TEL, AP, CG, MAH, & GUJ States”. In addition to routine data like isolation , OT % age in production plots etc. , area measurement of 25 % of visited field was also done. Helped the production team by daily updation of roguing status of HSP plots.
1. **Seed Testing (Deorjhal + Bandamailaram)**

Germination Test : 87532 samples

Vigour Test : 30993 samples

Moisture & PP : 43127 samples

Vegetable GOT : 6294 lots

Field Crop GOT : 6234 lots

Total no of tests : 1,74,180

Moisture Meter Calibration: 154 units

The volume and the kind of old inventory which we are dispatching and selling, number of genuine complaints were negligible, as far as I know. This indicate that our screening process and frequency of testing for quality parameters is good enough.

This year we have also dispatched samples and required material for conducting germination test along with seed stock of Maize lots to C&F location. One video was also shared about procedure to be followed in germination planting and seedling evaluation. Sales team was asked to conduct germination test on fortnightly interval. This has developed confidence in sales team and we were able to hold substandard lots in time and ultimately resulted in negligible germination complaints.

1. **App for GOT**
* With the help of “IT team” GOT App is developed and is being used.
1. **Remnant Analysis**
* Density based remnant analysis of seed lots is being followed which has not only saved time but also helping in timely payment and differentiating among farmers.
1. **Field GOT**
* More than 12,400 lots (Vegetable +Field crops) were tested.
1. **Seed Quality Upgradation**
* Proper Testing, Blending/merging and grading of Carry over stock in Field and Vegatable crops helped in maximum utilisation of carry over and borderline stock without any significant germination complaint. The following are the quantity details.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Crop** | **Total Lot No.** | **Total Qty.** | **Germination upgradation** | **Genetic Purity upgradation** |
| **Lot No.** | **Qty.** | **Lot No.** | **Qty.** |
| Veg. |  2,002  |  90,103  |  1,613  |  70,374  |  389  |  19,728  |
| Field |  2,163  |  1,507,873  |  1,114  |  730,977  |  1,049  |  776,895  |
| **Grand Total** |  **4,165**  |  **1,597,975**  |  **2,727**  |  **801,352**  |  **1,438**  |  **796,624**  |

1. **Seed Technology**
* Developed, standardised and commercialised protocols for the following with bare minimum cost
	+ Seed priming protocol in Ridge gourd. In Seed lots of Ridge gourd hybrid Aarti, we have problem of field emergence, lots were recording good germination in lab test but in field failed to emerge and this problem was more prominent in polymer treated seed. more than 6000 kg polymer treated quantity was primed and sold without any complaint.
	+ Seed priming protocol in Bitter Gourd, Brinjal, Chilli,Tomato
	+ Dormancy /Hard seededness breaking treatment for bulk quantity in Cucumber, Ridge Gourd, Sponge Gourd, Papaya, Root Stock Brinjal.
	+ Sponge Gourd hybrid Kuhu is having hard seededness problem. With the help of heat treatment able to overcome this problem and placed more than 1.4 MT seed in market without any quality issue.
	+ Identified the same problem in Alok and also suggested solution to avoid this in freshly harvested seed. Now carry over inventory is being dispatched after heat treatment.
	+ Trained three persons in seed technology activities.
	+ Accelerated Aging Testing of Carry over Maize and Paddy inventory is going on in large scale. Carry over and sales return stock of Maize and Paddy is being tested and the data generated is being used in making bigger homogeneous lots. Accelerated aging data is helping in shelf life differentiation among seed lots and ultimately reducing discard.
1. **Root stock inventory**
* Root stock inventory was successfully processed, packed and dispatched after necessary priming/ upgradation for one year. Now the total inventory is handed over to Plant team at Deorjhal. However we will continue to support in Quality upgradation and palletting.
1. **External Vegetable Seed Production**
* Coordinated external production activities at Deulgaon Raja, Bayad, Kurnool & Ranibennur locations.
* Trained external production team in “VSeedpro” an app for Seed production data management and the same is being used by the team since Kharif 2022.
* Reporting system has improved.