# KRISHI VIGYAN KENDRA AMBALA

# ANNUAL PROGRESS REPORT

## (JANUARY- DECEMBER, 2022)


**SOCIETY FOR CREATION OF HEAVEN ON EARTH**

**Krishi Vigyan Kendra,Village Tepla,**

**Post Saha, District Ambala (Hry.)**

# INDEX

# DETAIL REPORT OF APR-2022
# (JANUARY – DECEMBER, 2022)

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

| Address | Telephone | | E mail |
|---|---|---|---|
| | Office | FAX | |
| **KRISHI VIGYAN KENDRA**<br>Vill. Tepla, Post Saha<br>District Ambala-133 104 (Haryana) | 0171-2822522 | 0171-2822522 | kvkambala@gmail.com |

### 1.2 .Name and address of host organization with phone, fax and e-mail

| Address | Telephone | | E mail |
|---|---|---|---|
| | Office | FAX | |
| **SOCIETY FOR CREATION OF HEAVEN ON EARTH**<br>Camp Office:<br>KRISHI VIGYAN KENDRA<br>Vill.Tepla, Post Saha,<br>District Ambala-133 104 (Haryana) | 0171-2822522 | 0171-2822522 | bakshi.akhil@gmail.com |

### 1.3. Name of the Senior Scientist & Head with phone & mobile No

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| **Dr. (Mrs.) Upasana Singh** | 0171-2546204 | 8295406560 | upasanasinghrathee@gmail.com |

### 1.4. Year of sanction: 1995

## 1.5. Staff Position (as on 31st December, 2022)

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Permanent /Temporary | Category (SC/ST/ OBC/ Others) | Mobile no. | Age | Email id |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Senior Scientist & Head | Dr. (Mrs.) Upasana Singh | Senior Scientist & Head | Home Science | Level-14 | 177400 | 04.08.08 | Permanent | Gen. | 8295406560 | 47 yrs. 4 months | upasanasinghrathee @gmail.com |
| 2 | Subject Matter Specialist | Dr. Ramesh Kumar | SMS (Agricultural Extension) | Agricultural Extension | 11 | 85800 | 14.08.08 | Permanent | Gen. | 9017975976 | 49 ½ yrs. | rameshjhorar @rediffmail.com |
| 3 | Subject Matter Specialist | Er. Guru Prem | SMS (Soil & Water Management) | Soil & Water Mgt. | 11 | 85800 | 28.11.09 | Permanent | Gen. | 9416355892 | 43 yrs. | gpgrover79 @gmail.com |
| 4 | Subject Matter Specialist | Dr.Vikram Dhirendra S. | SMS (Plant Protection) | Plant Protection | 11 | 74000 | 12.06.14 | Permanent | Gen. | 8950235630 | 39 yrs. 4 months | vdskvkambala@gmail.com |
| 5 | Subject Matter Specialist | Dr.Amit Kumar | SMS (Horticulture) | Horticulture | 11 | 71800 | 12.08.15 | Permanent | Gen. | 9991567854 | 37 yrs.10 months | amitbaliyan2009 @gmail. com |
| 6 | Subject Matter Specialist | Dr.Rajendra Kumar Singh | SMS(Agronomy) | Agronomy | 10 | 63100 | 11.9.18 | Permanent | Gen. | 8948490351 | 35 yrs.10 months | rajanmpsingh @gmail.com |
| 7 | Subject Matter Specialist | Dr. Rajan Mishra | SMS (Animal Science) | Animal Science | 10 | 56100 | 15.10.22 | Permanent | Gen. | 9532422637 | 30 yrs. | mishrarajan560@gmail.com |
| 9 | Accountant | Sh. Yogesh Kumar | Assistant | Accounts | 6 | 37600 | 16.12.20 | Permanent | Gen. | 7837724186 | 25 yrs. | yogeshsandhu22 @gmail.com |
| 9 | Farm Manager | Sh. Abhay Kumar | Farm Manager | Agriculture | 9 | 82600 | 08.12.97 | Permanent | Gen. | 9416113081 | 47 yrs.8 months | abhay9416113081 @gmail. com |
| 10 | Computer Programmer | Mrs. Meera Sharma | Computer Programmer | Computer | 7 | 58600 | 01.04.08 | Permanent | Gen. | 9467677662 | 54 yrs.3 months | meerasharma1968 @gmail. com |
| 11 | Programme Assistant | Mrs. Kajal | Programme Assistant | Home Science | 6 | 36500 | 23.12.21 | Permanent | Gen. | 7696948748 | 28 yrs. | kajalrana0808@gmail.com |
| 12 | Stenographer | Sh. Charanjeet Singh | Steno | --- | 4 | 34300 | 16.02.12 | Permanent | Gen. | 8684070786 | 38 yrs.4 months | jeetsamra2@gmail.com |
| 13 | Driver | Sh. Shyam Lal | Driver-cum-Mechanic | Jeep | 4 | 30500 | 16.02.12 | Permanent | SC | 9466331139 | 57 yrs.7 months | |
| 14 | Driver | Sh. Sandeep Kumar | Driver-cum-Mechanic | Tractor | 4 | 22400 | 23.12.21 | Permanent | Gen. | 9729324461 | 28 yrs. | -- |
| 15 | Supporting staff | Sh. Raman Kumar | Supporting Staff | -- | 2 | 34000 | 27.05.96 | Permanent | Gen. | 9416847720 | 53 yrs. 5 months | -- |
| 16 | Supporting staff | Sh. Karamjit Singh | Supporting Staff | -- | 2 | 32000 | 12.08.02 | Permanent | SC | 8901188631 | 45 yrs.4 months | -- |

## 1.5 (a) DAMU Project

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Permanent /Temporary | Category (SC/ST/ OBC/ Others) | Mobile no. | Age | Email id |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Subject Matter Specialist | Vacant | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Agromet Observer | Miss Vishu | Agromet Observer | Agromet Observer | 3 | 21700 | 11.11.20 | Contract-ual | SC | 7056033522 | 26 | Vishubrar666@gmail.com |

## 1.5 (b) ARYA Project

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Permanent /Temporary | Category (SC/ST/ OBC/ Others) | Mobile no. | Age | Email id |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | Mr.Sachin Sharma | SRF | Horticulture | 33790 | Fixed | -- | -- | -- | -- | -- | -- |
| | | | | | | | | | | | | |

## 1.6. Total land with KVK (in ha) :

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings | 1.4 |
| 2. | Under Demonstration Units | 2.0 |
| 3. | Under Crops | 9.0 |
| 4. | Orchard/Agroforestry | 4.0 |
| | Others (specify) | |
| 5. | Farm Roads & Drainage | 1.0 |
| 6. | Integrated Farming System | 1.0 |
| | **Total** | **18.4** |

## 1.7. Infrastructural Development:

**A) Buildings**

| S. No. | Name of building | Source of funding | Stage | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Complete | | | Incomplete | | |
| | | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction |
| 1. | Administrative Building | ICAR | 1997-98 | 662.67 | 17.83 | -- | -- | -- |
| 2. | Farmers Hostel | ICAR | 1997-98 | 311.13 | 8.37 | -- | -- | -- |
| 3. | Demonstration Units (2) | | | 539.26 | 10.05 | | | |
| | 1. Poultry | ICAR | 1997-98 | 50.96 | -- | -- | -- | -- |
| | 2. Goatry | ICAR | 1997-98 | 89.30 | -- | -- | -- | -- |
| | 3. Piggery | ICAR | 1997-98 | 364.0 | -- | -- | -- | -- |
| | 4. Mushroom | ICAR | 1997-98 | 35.0 | -- | -- | -- | -- |
| 4. | Fencing | ICAR | 1997-98 | 254.40 | 2.38 | -- | -- | -- |
| 5. | Farm godown(Seed Store) | ICAR | 1997-98 | 300 sq.m | 3.0 | -- | -- | -- |

**B) Vehicles (31-12-2022)**

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|---|---|---|---|---|
| Tractor | March,2017<br>August,2019 (CRM)<br>August,2020 (Ex-situ) | 5,98,292.00<br>6,45,000.00<br>-- | 1363<br>1689<br>293 | Good<br>Good |
| Jeep | March,2017 | 6,71,361.00 | 106440 | Good |
| Motor cycles(2) | 2009-10<br>2009-10 | Both Motor cycles were provided by Society for Extension work | 67839<br>29933 | Very Poor |

# 2. DETAILS OF DISTRICT

## 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

| S. No | Farming system/enterprise |
|---|---|
| 1 | Rice-Wheat |
| 2 | Rice-Sugarcne-Wheat |
| 3 | Rice-Potato-Rabi onion/Maize |
| 4 | Wheat-Summer Moong-Rice |
| 5 | Dairy Farming, Back-yard Poultry& small scale household enterprises |

## 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

| S. No | Agro-climatic Zone | Characteristics |
|---|---|---|
| 1 | Dry-sub Humid Zone of Haryana State | Average Rainfall : 1000 mm/yr.(app.)<br>Ground Water Status – Dark Zone<br>Temperature range - $2^0$C – $45^0$C<br>Source of Irrigation : Tubewell (96%) & Canal (14%) |
| 2 | Agro ecological situation<br>i) Geographical Area (ha) : 153171<br>ii) Net Sown Area (ha) : 133424 | Area under crops : 62%, 66% & 8% (Rice,Wheat & Sugarcane)<br>Area under Horticulture Crops : 10-12%<br>Area under Agro-forestry crops:3.32% area |
| 3 | General Census (2011)<br>No. of Villages : 486<br>Blocks : 6<br>Population (Total Persons) : 1136784<br>Male - 604044 Female- 532740<br>Literacy Rate : 82.9 %<br>Male - 88.5% Female- 76.6% | |

## 2.3 Soil type/s

| S. No | Soil type | Characteristics | Area in ha |
|---|---|---|---|
| 1 | **South –West part** | Very deep well drained coarse loamy calcareous stratified soils with loamy surface on nearly level plain. Slightly eroded, subject to slight flooding associated with slight salinity | Block : Ambala-I (~ 50400 ha) |
| | | Very deep moderately well drained fine loamy calcareous soils with loamy surface on nearly level plain lightly saline, slightly sodic moderately flooded, gently sloping plain with slight erosion in some areas | Block: Ambala-II (~ 13100 ha) |
| | **North-East part** | Stratified coarse loamy soil with loamy surface on nearly level plain slightly eroded, slightly sodic subject to slight flooding. Associated with very deep well drained calcareous stratified coarse loamy soils with loamy surface | Block: Saha (~ 15300 ha) |
| | | Very deep well drained coarse loaming calcareous stratified soils with loamy surface on very gently sloping plain moderately eroded slightly sodic sandy soils | Block: Naraingarh & 40% of Barara & 60 % Shahzadpur(39000 ha) |
| | | Very deep moderately well drained fine loamy soil with loamy surface on nearly level plain slightly eroded | 60% of Block Barara & 40 % Block Shahzad-pur(~17200 ha) |

## 2.4. Area, Production and Productivity of major crops cultivated in the district

| S. No | Crop | Area (ha) | Production (Qtl) | Productivity (Qtl /ha) |
|---|---|---|---|---|
| | | | | |
| 1 | Paddy | 93,946 | 3858362.22 | 41.07 |
| 2 | Wheat | 87,884 | 3610274.72 | 41.08 |
| 3 | Maize | 218 | 8619.72 | 39.54 |
| 4 | Sugarcane | 9900 | 8036820 | 811.80 |
| 5 | Mustard | 6073 | 108706.70 | 17.90 |
| 6 | Sunflower | 5129 | 99194.86 | 19.34 |
| | Pulses | | | |
| II | **Horticulture crops** | | | |
| I | Fruits | | | |
| 1 | Mango | 1432.9 | 10122 | 7.063996 |
| 2 | Guava | 560.1 | 10888 | 19.43939 |
| 3 | Citrus | 59 | 802 | 13.59322 |
| 4 | Aonla | 12 | 356 | 29.66667 |
| 5 | Chiku (Sapota) | 184 | 722 | 3.923913 |
| 6 | Peach | 23 | 252 | 10.95652 |
| 7 | Pear | 25 | 364 | 14.56 |
| 8 | Plum | 14 | 84 | 6 |
| 9 | Ber | 4 | 62 | 15.5 |
| 10. | Litchi | 29.4 | 288 | 9.795918 |
| 11. | Water melon | 152 | 2056 | 13.52632 |
| 12. | Muskmelon | 178 | 1604 | 9.011236 |
| 14. | Bael | 3 | 12 | 4 |
| 15. | Pomegranate | 2 | 20 | 10 |
| 16. | Others | 122 | 1552 | 12.72131 |
| | Total | 2798.4 | 29184 | 10.42882 |
| **III** | **Vegetable crops (March-December,2020)** | | | |
| 1 | Potato | 3610 | 95724 | 26.51634 |
| 2 | Onion | 3120 | 55362 | 17.74423 |
| 3 | Tomato Open<br>Tomato Protected cultivation | 910<br>1 | 25856<br>178 | 28.41319<br>178 |
| 4 | Radish | 1944 | 53838 | 27.69444 |
| 5 | Carrot | 1614 | 37832 | 23.4399 |
| 6 | Cabbage | 115 | 1954 | 16.9913 |
| 7 | Cauliflower | 2740 | 46000 | 16.78832 |
| 8 | Green Chillies | 370 | 2578 | 6.96<br>7568 |
| 9 | Capsicum<br>Capsicum (Protected cultivation) | 906<br>4 | 17969<br>2130 | 19.83223<br>532.5 |
| 10 | Bhindi | 1028 | 9240 | 8.988327 |
| 11 | Brinjal | 256 | 4154 | 16.22656 |
| 12 | Peas | 836 | 11582 | 13.85407 |
| 13 | Leafy vegetables | 4274 | 62412 | 14.60271 |
| 14 | Cucurbits | | | |
| | i) Bottle gourd | 1076 | 13570 | 12.61152 |
| | ii) Ridge gourd /Sponge Gourd | 326 | 5344 | 16.39264 |
| | iii) Cucumber<br>iv) Cucumber (Protected cultivation) | 126<br>32 | 526<br>2622 | 4.174603<br>81.9375 |
| | v) Pumpkin | 82 | 1834 | 22.36585 |
| | vi) Bitergurd | 291 | 2700 | 9.278351 |
| 15 | Others | 2976 | 42290 | 14.21035 |
| | **Total** | **26637** | **495694** | **18.60923** |

## 2.5. Weather data

| Month | Rainfall (mm) | Temperature $^0$ C | | Relative Humidity (%) |
|---|---|---|---|---|
| | | Maximum | Minimum | |
| January,2022 | 143.5 | 16.31 | 9.52 | |
| February,2022 | 19.6 | 21.74 | 9.89 | |
| March,2022 | 0 | 29.82 | 16.71 | |
| April, 2022 | 0.5 | 39.2 | 23.1 | |
| May, 2022 | 26.4 | 37.2 | 25.6 | |
| June, 2022 | 64.4 | 39.3 | 26.9 | |
| July, 2022 | 351.6 | 34.6 | 26.3 | |
| August, 2022 | 73.5 | 34.7 | 26.7 | |
| September, 2022 | 280.7 | 33.2 | 24.6 | |
| October, 2022 | 42.7 | 31.4 | 19.7 | |
| November, 2022 | 0.8 | 27.0 | 14.2 | |
| December, 2022 | 0 | 20.0 | 9.3 | |

(Source: Metrology Department, Chandigarh)

## 2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

| Category | Population | Production | Productivity |
|---|---|---|---|
| **Cattle** | 71160 | 2853.0 tons | 4.8 Lit/D/Animal |
| *Crossbred* | | | |
| *Indigenous* | | | |
| **Buffalo** | 137620 | 161307.0 tons | 4.6 Lit/D/Animal |
| **Sheep** | 16887 | 25368 kg. Wool<br>251147.23 kg. Meet | -- |
| Crossbred | | | |
| *Indigenous* | | | |
| **Goats** | 6695 | 511100.00 kg Milk<br>454138.00 kg. Meet | -- |
| **Pigs** | 4128 | 303431.00 kg. Meet | 56.39 kg./Pig |
| *Crossbred* | | | |
| *Indigenous* | | | |
| **Horse pony** | 521 | -- | -- |
| **Mules** | 226 | -- | -- |
| **Donkeys** | 3 | -- | -- |
| **Dogs** | 4172 | -- | -- |
| **Rabbits** | 56 | -- | -- |
| **Hens** | 2873268 | 258037300 Eggs | 317136 kg. Chicken |
| **Fish** | | | |
| Ponds | 370.14 ha (Area) | 1932.5 ton | 5.14 /ha |
| Notified waters (Rivers etc.) | -- | 200 ton | -- |

**(Source: AHD, Deptt. of Haryana, Ambala (2022)**

## 2.7 Details of Operational area / Villages (2022)

| Sl. No. | Taluk | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|
| 1 | Saha | Saha | Akbarpur,Allahpur, Bihta, Chudiala,Goli Chudiali, Gola, Chhapra, Dhurala,Dubli Dinarpur,Ghasitpur,Gokalgarh,Gagan-hedi,Saha,Haldari, Harda,Kesri,Hardi, Hamidpur,KalpiKhanpur,Tobba,Landah Jawahargarh,Mithapur,Laha,Sabga,Kalpi Pasiala,Kakadkunda,Keshopur,Kharu - Khera, Malikpur, Mehmudpur, Langer-chhani, Laha Mithapur, Mehtabgarh, Nagla Jattan, Nahoni,Naggal, Paplotha, Pilkhni,Phulelmajra,Sabapur,Sabga,Saha Tepla,Sambhalkha,Shergarh,Haryoli Samlehri,Tamnauli,Talrehri,Taperia Thakurpura,Tharwa,Tobba, Uplana | Rice, Wheat, Sugarcane<br>Oil seed & Pulses<br>&<br>Farm Machinery | Low Yield :<br>-Low yielding old varieties<br>-Low productivity due to Rice-wheat cropping system<br>Sodicity hazards in soil<br>- Traditional sowing & field preparation techniques<br>-Insect- Pest & Disease occurrence | -Promotion of RCT to get high return<br>-Integrated crop management<br>-Crop diversification in rice-wheat cropping system through pulses<br>-Soil Fertility Management<br>-Enhancement of Crop productivity with nutrient, disease, pest & weed management |
| 2 | Barara | Barara | Adhoya,Alipur,Barara, Bhudian, Chahal majra, Binjalpur, Gokalgarh,Salimpur, Dera,Painjal,Salaimpur,Dhanaura,Dheen Dhanauri, Dheen, Dhayiamajra,Duliana, Tangai,Milak,Gheldi,Gaganhedi,Khera Hemamajra, Holi Jharumajra,Sherpur, Kakadmajra,Mankamanki,Rajauli,Rola Hedi,Talheri,Pajnail Tamnauli, Mulana, Thamber, Sirasgarh, Sohana, Sadakpur | Potato, Onion & other Vegetable and Fruit crops | Low yield in Horti. crops due to:<br>-Old varieties<br>-Poor net return due to sole crops<br>-Poor crop management techniques & unjudicious use of inputs<br>-Insect, Pest & Disease occurrence | -Promotion of improved varieties, crop production & management technologies<br>-Promotion of inter-cropping layout |
| 3 | Ambala cantt | Ambala –II | Ambala Cantt, Bhilpura, Brahanmajra, Kardhan, Khudda, Manglai,Naggal, Munrehri Ratanheri,Sapeda, Kapoori | Livestock | -Low milk yield<br>-An-oestrus, Repeat Breeding<br>-Low egg production of desi birds<br>-High mortality<br>-Mineral deficiency in goats | -Improvement in housing, feeding, breeding, fertility and other health management in dairy animals through knowledge up-gradation |
| 4 | Ambala city | Ambala-I | Ambala City,Babaheri, Bullana, Bhoora Majra,Durana, Dukhedi, Fazailpur, Kot katchua, Naggal Lakhnoura Sahib, Janetpur, Handesra, Mardo Sahib, Mohra<br>Machhonda,Nagla Nanku, Nanyola,Panjokhra,Sambhalkhi, Adhomajra, Garnala | Women Empowerment | -Unhygienic condition, poor health & nutritional status | Promotion of secondary agriculture i.e. Poultry,Mushroom cultivation<br>-Promotion of nutrition gardens for family health & sustainable livelihood<br>-Women empowerment through knowledge and skill upgradation |
| 5 | Narain-garh | Shahzadpur | Banondi, Bibipur, Bahlauli, Bichpari, Jolly, Kadasan,Kodwa kalan, Kodwa, Magarpura, Neknama,Panjeto, Fathepur, Patrehri,Rachheri, Santokhi,Kakarkunda | | | |
| 6 | Narain-garh | Naraingarh | Badagaon,Badholi,Badi kodi,Ahmadpur Bakhtua,Ballopur,Batti, Barso Majra Badagarh,Gadauli, Hasanpur, Nanhera, Salaula, Chajjal Majra,Laha | | | |

## 2.8 Priority/thrust areas

| Crop/Enterprise | Thrust area |
|---|---|
| Rice, Wheat, Sugarcane<br>Oilseed & Pulses<br>& Farm Machinery | ❖ Promotion of RCT to get high return<br>❖ Integrated Crop Management<br>❖ Crop Diversification in rice-wheat cropping system<br>❖ Soil Fertility Management<br>❖ Enhancement of Crop productivity with nutrient, insect, pest, disease & weed management<br>❖ Promotion of Natural faming<br>❖ Promotion of Bio-fortified varieties of Wheat, Mustard & Lentil etc. |
| Potato,Onion,Tomato,Coriander (Vegetable crops) | ❖ Promotion of : Improved varieties Crop production & management techniques<br>❖ Enhancement of Crop productivity with nutrient, insect, pest, disease & weed management<br>❖ Promotion of Cluster Based Business Organization (CBBO) in Onion<br>❖ Promotion of Natural farming |
| Livestock | ❖ Prevention of Mastitis in Cattle<br>❖ Management in Dairy animals, Goat, Poultry, Pig through knowledge up-gradation<br>❖ Promotion of small enterprises for sustainable income generation |
| Women Empowerment | ❖ Women empowerment : Knowledge & skill up gradation<br>❖ Promotion of Kitchen gardens<br>❖ Improve Health, Hygiene & Sanitation<br>❖ Promotion of Bio-fortified varieties<br>❖ Value addition of seasonal Fruits, Vegetables & Milk |

# 3. TECHNICAL ACHIEVEMENTS

## 3.A. Details of target and achievements of mandatory activities by KVK during 2022

| OFT (Technology Assessment) | | | | FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises) | | | |
|---|---|---|---|---|---|---|---|
| 1 | | | | 2 | | | |
| Number of OFTs | | Total no. of Trials | | Area in ha | | Number of Farmers | |
| Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| 7 | 5 | 70 | 50 | 104 | 161 | 375 | 512 |
| | | | | | | | |

| Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit) | | | | | Extension Activities | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | | | | | 4 | | | |
| Number of Courses | | | Number of Participants | | Number of activities | | Number of participants | |
| Clientele | Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| Farmers | 36 | 24 | | 643 | 166 | 366 | 8074 | 40535 |
| Rural youth | 12 | 7 | | 225 | | | | |
| Extn. Functionaries | 4 | 1 | | 20 | | | | |

| Seed Production (Qtl.) | | | Planting material (Nos.) | | |
|---|---|---|---|---|---|
| 5 | | | 6 | | |
| Target | Achievement | Distributed to no. of farmers | Target | Achievement | Distributed to no. of farmers |
| 180 | 40.77 | 68 | 3000 | 1217 | 98 |

| Livestock (No.) | | |
|---|---|---|
| 5 | | |
| Target | Achievement | Distributed to no. of farmers |
| 1000 | 1217 | 98 |
| | | |

| Vermi Compost (Qtl.) | | | Mushroom (Qtl.) | | |
|---|---|---|---|---|---|
| 5 | | | 6 | | |
| Target | Achievement | Distributed to no. of farmers | Target | Achievement | Distributed to no. of farmers |
| 50 | 50 | KVK farm | 1.0 | 0.75 | 5 |

# I.B. TECHNOLOGY ASSESSMENT IN DETAIL

## *WEED MANAGEMENT*

### *1. Efficacy of herbicides for Weed management in Onion (NHRDF Red)*

***Problem : Low yield due to poor weed management***

***Cause : Cyperus rotundus and Cynodon dactyon weeds***

**Technology Assessed:** KVK, Ambala took up on-farm trial on Efficacy of herbicides for Weed Management in Onion (NHRDF Red). The results indicated that the use of Goal (Oxyflurofen 23.5 EC) @ 625 gm/ha + two time hand weeding (PAU) gave 20 % increase in yield over Pendimethalin 3.75 lit/ha + two time hand weeding.Farmers are satisfied with this technology due to weed control efficacy 86.21% and Average yield 136.5 q/ha.

***Table : Efficacy of herbicides for Weed management in Onion (NHRDF Red)***

| *Technology Assessed* | *No of Trials* | *Weed control efficacy (%)* | *Dia-meter of Bulb (cm)* | *Weight of Bulb (gm)* | *Av. Yield (q/ha)* | *% increase in Yield* | *Cost of Cultivation (Rs./ha)* | *Gross Return (Rs./ha)* | *Net Return (Rs/ha)* | *BC Ratio* |
|---|---|---|---|---|---|---|---|---|---|---|
| $T_1$– Pendimethalin 3.75 lit/ha + Two time hand weeding (F.P.) | 10 | 43.41 | 4.87 | 55.15 | 109.2 | 20 | 67000 | 163800 | 96800 | 1.44 |
| $T_2$- Goal (Oxyfluorfen 23.5 EC) 625 gm/ha +Two time hand weeding 45-50 days & 75 days (Rec.) | | 86.21 | 5.10 | 48.85 | 136.5 | | 70000 | 204750 | 134750 | 2.92 |

### *2. Efficacy of Early blight in Potato*

***Problem: Low yield due to Early blight disease at the time of Tuber formation***

***Cause: Favorable weather condition for spreading of Pathogen***

***Technology Assessed:*** Krishi Vigyan Kendra, Ambala conducted trial for Efficacy of Early blight in Potato.The results indicated that the use of 4 -5 spray of Mancozeb M-45 @ 1.5 kg/ha at 15 days of Interval gave 21.80% increase in yield over One spray of Mancozeb M -45 @ 500 gm/ha followed by farmers practice. Farmers are satisfied with this technology due to inciednece of early blight in potato (8%) in comparision (14%) in farmers practice.

***Table : Efficacy of Early blight in Potato***

| **Technology Assessed** | **No.of trials*** | | | **% Increase in Yield** | **Cost of Cultivation (Rs./ha)** | **Gross Return (Rs./ha)** | **Net Return (Rs/ha)** | **BC Ratio** |
|---|---|---|---|---|---|---|---|---|
| | | **Incidence of Early blight (%)** | **Av. Yield (q/ha)** | | | | | |
| $T_1$ - One spray of Mancozeb M -45 @ 500 gm/ha (F.P.) | 10 | 14 | 135.75 | 21.80 | 56500 | 67875 | 11375 | 1.20 |
| $T_2$ - 4-5 spray of Mancozeb M-45 @ 1.5 kg/ha at 15 days of Interval (Rec.) | | 8 | 165.35 | | 58300 | 82675 | 24375 | 1.41 |

*No.of trials are no. of replications.

## *3. Management of Leaf curl in Chilli*

***Problem: Low yield due to occurrence of Leaf curl disease (White fly attack) in Chilli***
***Cause: Use one spray only on transplanted seedlings.***

***Technology Assessed:***
Krishi Vigyan Kendra, Ambala conducted trial for Management of Leaf curl in Chilli. The results indicated that the use of two spray of Imidachlorpride @ 1 lit./ha at 15 days of interval gave 21.83% increase in yield over one spray of Chlorpyriphose @ 1 lit./ha followed by farmer practice. Farmers are satisfied with this technology due to incidence of leaf curl in Chilli (10%) in comparison (15%) in farmers practice.

***Table : Management of Leaf curl in Chilli***

| Technology Assessed | No.of trials* | Incidence of Leaf curl (%) | Av. Yield (q/ha) | % Increase in Yield | Cost of Cultivation (Rs./ha) | Gross Return (Rs./ha) | Net Return (Rs/ha) | BC Ratio |
|---|---|---|---|---|---|---|---|---|
| $T_1$ - One spray of Chlorpyriphos @ 1lit/ha (F.P.) | 10 | 15 | 245 | 21.83 | 82000 | 612500 | 530500 | 7.46 |
| $T_2$- Two spray of Imidachlorpride @ 1 lit./ha(Rec.) | | 10 | 298.5 | | 87500 | 746250 | 659750 | 8.52 |

*No.of trials are no. of replications.

### *LIVE STOCK ENTERPRISES*

## *4. Assessment of Prebiotic containing Refined functional Carbohydrates (RFCs) on Piglet's overall Health & immunity*

***Problem: Retarded growth and weak immunity***

***Cause: Imbalanced Diet /Malnutrition in piglets***

**Technology Assessed: Assessment of Prebiotic containing Refined functional Carbohydrates (RFCs) on Piglet's overall Health & immunity**
KVK, Ambala conducted trial on Assessment of Prebiotic containing Refined functional Carbohydrates (RFCs) on Piglet's overall Health & immunity (NRCP,Guwahati-). The farmers were normally feeding without any prebiotic supplementation to pigs. The trial conducted on feeding with Supplementation of prebiotic containing Refined functional Carbohydrates (RFCs) which helps in proper metabolism and so found the body weight 60 kg of 6 months piglets) higher than farmers practice i.e. 45 kg (6 months piglets) as well as disease infection found (5%) less than farmers practice 20%. The net return was also higher i.e. Rs. 3300/-piglet in assessed trial than Rs. 2000/- in farmers practice and BCR was 2.2 in comparison to 1.8 (FP)

***Table : Assessment of Prebiotic containing Refined functional Carbohydrates (RFCs) on Piglet's overall Health & immunity***

| Technology Assessed | Body weight of piglets at 6 months (kg.) | Disease Infection (%) | Cost of Rearing (Rs./Piglet/6 months) | Net Return (Rs./piglet/6 months) | BCR |
|---|---|---|---|---|---|
| T1 – Feeding without any supplementation (F.P.) | 45 | 20 | 2500 | 2000 | 1.8 |
| T2- Feeding with Supplementation of prebiotic containing RFCs –Ass. | 60 | 5 | 2700 | 3300 | 2.2 |

## *5.Assessment of Dietary Electrolyte Balanced Diet to optimize production in Poultry*

***Problem : Quantitative as well as Qualitative Suboptimal production in Poultry***

***Cause : Scoring & low growth in Poultry***

**Technology Assessed: Assessment of Dietary Electrolyte Balanced (DEB) Diet to optimize production in Poultry**

KVK, Ambala conducted trial on Optimize production in Poultry (DPR, Hyderabad). As in $T_1$ treatment Farmers not following Dietary Electrolyte Balance feeding no any such supplement due to which scouring problem were there & hence result to suboptimal growth and production. In $T_2$ treatment trial conducted with Dietary Electrolyte Balanced (DEB) Diet by DCAD supplementation and hence scoring problem reduced by 35% and weight / broiler bird optimized in proper time i.e. 1.8 kg on $30^{th}$ day as compare to 1.6 kg on $30^{th}$ day in $T_1$ (Farmer practice) on an average. The net return was also higher i.e. calculated an average net return from 1000 broiler bird Rs. 30,000/- in assessed trial as compare to 24,000/- in farmers practice. BCR was 1.8 in compare to 1.6 (F.P.)

***Table : Assessment of Dietary Electrolyte Balanced (DEB) Diet to optimize production in Poultry***

| Technology Assessed | Scoring /Disease (%) | Body wight Kg/Bird (30 days) | Gross Cost (Rs./1000 Birds) | Net Return (Rs./1000 Birds) | BCR |
|---|---|---|---|---|---|
| $T_1$ –Standard diet without DEB (F.P.) | 65 | 1.6 | 80,000.00 | 24,000.00 | 1.6 |
| $T_2$- Standard diet + DEB supplementation @ 200-250 meq/kg (DPR,Hyderabad)- Ass. | 30 | 1.8 | 1,00,000.00 | 30,000.00 | 1.8 |

# II. FRONTLINE DEMONSTRATION

## Frontline demonstrations on oilseed crops

| Crop | Thematic Area | technology demonstrated | Variety | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Increase in yield | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| | | | | | | High | Low | Average | | | | | | | | | | |
| Mustard | Integrated Crop Management | Improved variety of Mustard (PM-30) | PM-30 | 125 | 50 | 27.50 | 5.0 | 16.3 | 13.12 | | 19750.00 | 82063.00 | 62313.00 | 4.15 | 18200.00 | 66281.00 | 48081.00 | 3.64 |

## Front line demonstration on pulse crops

| Crop | Thematic Area | technology demonstrated | Variety | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Increase in yield | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| | | | | | | High | Low | Average | | | | | | | | | | |
| Lentil | Varietal Evaluation | Improved variety of Lentil (L-4727) | L-4727 | 50 | 20 | 20.0 | 14.50 | 17.25 | 12.5 | 38.0 | 16500.00 | 80212.00 | 63712.00 | 4.86 | 14300.00 | 58125.00 | 43825.00 | 4.06 |
| Chickpea | Integrated Crop Management | Improved variety of Chickpea (P-3043) | P-3043 | 25 | 10 | 15 | 2.5 | 8.75 | 6.5 | 34.62 | 21500.00 | 44625.00 | 23125.00 | 2.07 | 18600.00 | 33995.00 | 15395.00 | 1.82 |
| Greengram | Integrated Crop Management | Improved variety of Mungbean (P-1431) | P-1431 | 60 | 25 | Failed* | | | | | | | | | | | | |
| Arhar | Integrated Crop Management | Integrated Crop Management in Arhar | IPH-15-3 | 25 | 10 | Failed** | | | | | | | | | | | | |

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

*Crop failed due to temperature of fluctuated at flowering stage

** Arhar crop third time demonstrated at farmer's field but due to climatic condition late flowring and pod formation.

# Front line demonstrations on Other Crops

| Category & Crop | Thematic Area | Name of the technology | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Change in Yield | Other Parameters | | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | | | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | High | Low | Average | | | | | | | | | | | | |
| **Cereals** | | | | | | | | | | | | | | | | | | | |
| **Wheat Timely sown** | | | | | | | | | | | | | | | | | | | |
| Wheat | Varietal Evaluation | Bio-fortified variety of Wheat : DBW-303 | 10 | 4 | 53 | 24 | 37.7 | 36.6 | 3.28 | No.of effective tillers /$m^2$ (330) | No.of effective tillers /$m^2$ (276) | 30500.00 | 75965.00 | 45465.00 | 2.49 | 28500.00 | 73547.00 | 45047.50 | 2.58 |
| Wheat | Varietal Evaluation | Bio-fortified variety of Wheat : DBW-187 | 10 | 4 | 43 | 19 | 30 | 29 | 3.44 | No.of effective tillers /$m^2$ (330) | No.of effective tillers /$m^2$ (284) | 30500.00 | 60450.00 | 29950.00 | 1.98 | 28500.00 | 58435.00 | 29935.00 | 2.04 |
| Wheat | Varietal Evaluation | Bio-fortified variety of Wheat : DBW-222 | 12 | 5 | 58 | 27 | 39.0 | 37.50 | 4 | No.of effective tillers /$m^2$ (330) | No.of effective tillers /$m^2$ (288) | 30800.00 | 78585.00 | 47785.00 | 2.55 | 28500.00 | 75562.50 | 47062.50 | 2.65 |
| **Wheat Late Sown** | | | | | | | | | | | | | | | | | | | |
| Wheat | Varietal Evaluation | Late variety of Wheat :DBW-90 | 15 | 6 | 26.4 | 11.0 | 19.6 | 17.5 | 12 | No.of effective tillers /m2 (230) | No.of effective tillers /m2 (194) | 30500.00 | 39494.00 | 8994.00 | 2.52 | 28500.00 | 35262.00 | 6762.00 | 2.18 |
| Maize | Nutrient Management | Foliar application of Zinc (CP-858) | 25 | 10 | 50.0 | 34.0 | 42.0 | 40 | 5 | Cob length (16 cm) | Cob length (12.5 cm) | 38000.00 | 82404.00 | 44404.00 | 2.18 | 36000.00 | 78480.00 | 42480.00 | 2.17 |
| **Vegetables** | | | | | | | | | | | | | | | | | | | |
| Tomato | Integrated Crop Management | Integrated Crop Management in Tomato | 10 | 4 | 330.0 | 260.6 | 311.75 | 260.50 | 19.67 | No.of fruits/plant (15) | No.of fruits/plant (12) | 65700.00 | 623500.00 | 557800.00 | 9.49 | 62000.00 | 521000.00 | 459000.00 | 7.40 |
| Tomato | Integrated Disease Management | Integrated Disease Management | 10 | 4 | 327.5 | 305.0 | 319.5 | 260.5 | 22.64 | Bacterial Wilt(%) 8 | Bacterial Wilt(%) 13 | 65700.00 | 639000.00 | 573300.00 | 9.72 | 62000.00 | 521000.00 | 459000.00 | 8.40 |
| Potato | Integrated Crop Management | Integrated Crop Management | 10 | 4 | 187.5 | 155.0 | 157.5 | 132.75 | 18.64 | Weight (gm) 120 | Weight (gm) 105 | 55000.00 | 78750.00 | 23750.00 | 1.43 | 54000.00 | 66375.00 | 12375.00 | 1.22 |
| Onion | Varietal Evaluation | Improved variety of Onion : | 10 | 4 | 170.0 | 142.5 | 167.50 | 142.25 | 17.75 | Weight (gm) 65 | Weight (gm) 52 | 70000.00 | 251250.00 | 181250.00 | 3.58 | 66000.00 | 213375.00 | 147375.00 | 3.23 |

| Category & Crop | Thematic Area | Name of the technology | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Change in Yield | Other Parameters | | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | | | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | High | Low | Average | | | | | | | | | | | | |
| | | NHRDF-RED | | | | | | | | | | | | | | | | | |
| Onion | Varietal Evaluation | Improved variety of Onion : NHRDF-RED 4 | 25 | 7 | 162.5 | 120.10 | 145.96 | 120.10 | 21.5 | Diameter of bulb (cm) 5.95 | Diameter of bulb (cm) 5.32 | 70000.00 | 218940.00 | 148940.00 | 3.12 | 66000.00 | 180150.00 | 114150.00 | 2.72 |
| Chilli | Integrated Disease Management | Integrated Disease Management in Chilli | 10 | 4 | 316.0 | 275.0 | 298.0 | 245.0 | 21.83 | Leaf curl (%) 10 | Leaf curl (%) 15 | 87500.00 | 746250.00 | 658750.00 | 8.52 | 82000.00 | 612500.00 | 530500.00 | 7.46 |

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

## FLD on Livestock

| Category | Thematic area | Name of the technology demonstrated | No. of Farmer | No.of Units (Animal/ Poultry/ Birds, etc) | Major parameters Milk production (lit/day) | | % change in major parameter | Other parameter | | Economics of demonstration (Rs./day/ani.) | | | | Economics of check (Rs./day/ani.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| Cattle | Disease Management | Mastitis Kit for Mastitis Management | 30 | 30 (HF ) | 28 | 25 | 20 | Case observed : 3 No. | Case observed : 12 No. | 220.00 | 1120.00 | 900.00 | 5.09 | 210.00 | 1000.00 | 790.00 | 4.76 |

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

## FLD on Other Enterprise: Kitchen Gardening

| Category and Crop | Name of technology | No. of Farmer | No. of units | Name of observations | Demonstration | Economics & Feedback |
|---|---|---|---|---|---|---|
| Kitchen gardening<br>-Tomato<br>-Cauliflower<br>-Palak<br>-Coriander<br>-Bringal<br>-Ghia,Tori<br>-Cucurbits<br>-Potato | Kitchen gardening with improved seed & techniques | 75 | 75 | **a)Technical Observation :** Gain in knowledge ( %)<br>**b)Farmer reaction :** Skill acquisition (Adoption%)<br>**c)Family Health & nutritional status** (Interview & Visual observation) | Kitchen gardening for improved nutritional status of family | a)100% adoption of technology<br>b) 80% Budget saving (approx.Rs.2800-3200/yr./Unit size -50$m^2$)<br>c)Improved nutritional status & family health |

# III. TRAINING PROGRAMMES

## (Practicing farmers, Rural Youth and Extension Functionaries)

| Date | Clientele | Title of the training programme | Discipline | Thematic area | Duration in days | Venue (Off / On Campus) | Other Participants | | | Number of SC/ST | | | Total participants | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M | F | Total | M | F | Total | M | F | Total |
| | | | | | | I. PRACTICING FARMERS | | | | | | | | | |
| **i.** | | **Agronomy** | | | 4 | | | | | | | | | | |
| 11-15 Oct. 22 | PF | Crop Residue Management | Agronomy | Soil & Water Management | 4 | Keshopur | 25 | 00 | 25 | 00 | 00 | 00 | 25 | 00 | 25 |
| 17-21 Nov, 22 | PF | Crop Residue Management | Agronomy | Soil & Water Management | 4 | KVK | 34 | 00 | 34 | 00 | 01 | 01 | 34 | 01 | 35 |
| | | **Total (2)** | | | | | **59** | **00** | **59** | **00** | **01** | **02** | **59** | **01** | **60** |
| **ii.** | | **Horticulture** | | | | | | | | | | | | | |
| 1-4 March, 22 | PF | Integrated Crop Management in Onion | Horticulture | Integrated Crop Management | 4 | Jawahargarh | 08 | 00 | 08 | 05 | 27 | 32 | 13 | 27 | 40 |
| 23-26 June, 22 | PF | Integrated crop Management in Chilli | Horticulture | Integrated Crop Management | 4 | KVK | 12 | 00 | 12 | 03 | 00 | 03 | 15 | 00 | 15 |
| 24-27 Aug, 22 | PF | Integrated Crop Management in Tomato | Horticulture | Integrated Crop Management | 4 | Sapeda | 20 | 00 | 20 | 00 | 00 | 00 | 20 | 00 | 20 |
| 17-20 Oct.22 | PF | Integrated Crop Management in Potato | Horticulture | Integrated Crop Management | 4 | Haldari | 15 | 00 | 15 | 00 | 00 | 00 | 15 | 00 | 15 |
| 28 Oct-1 Nov.22 | PF | Integrated Crop Management in Onion | Horticulture | Integrated Crop Management | 4 | Jawahargarh | 18 | 00 | 18 | 00 | 00 | 00 | 18 | 00 | 18 |
| 14-17 Oct.22 | PF | Integrated Crop Management in Potato | Horticulture | Integrated Crop Management | 4 | KVK | 15 | 00 | 15 | 00 | 00 | 00 | 15 | 00 | 15 |
| | | **Total (6)** | | | | | **88** | **00** | **88** | **08** | **27** | **35** | **96** | **29** | **125** |
| **iii.** | | **Plant Protection** | | | | | | | | | | | | | |
| 25-28 June, 22 | PF | Management of Leaf Curl in Chilli | Plant protection | Integrated Disease Management | 4 | Sain Majra | 20 | 00 | 20 | 00 | 00 | 00 | 20 | 00 | 20 |
| 24-28 Aug.22 | PF | Management of Pokka Boeing Disease in Sugarcane Crop | Plant protection | Integrated Disease Management | 4 | Sapeda | 46 | 00 | 46 | 05 | 00 | 05 | 51 | 00 | 51 |
| 31 Aug.-03 Sp. 22 | PF | Management of Fruit Borer in Tomato Crop | Plant protection | Integrated Disease Management | 4 | Jawahagarh | 02 | 07 | 09 | 00 | 30 | 30 | 02 | 37 | 39 |
| 11-15 Oct. 22 | PF | Integrated Disease Management in Potato | Plant protection | Integrated Disease Management | 4 | Haldari | 10 | 00 | 10 | 00 | 00 | 00 | 10 | 00 | 10 |
| | | **Total (4)** | | | | | **78** | **07** | **85** | **05** | **30** | **35** | **83** | **37** | **120** |
| **iv.** | | **Animal Science** | | | | | | | | | | | | | |
| 19-21 Jan.22 | PF | Parasitic Disease Management in Dairy animal | Animal Science | Disease Management | 4 | KVK | 00 | 00 | 00 | 00 | 15 | 15 | 00 | 15 | 15 |
| 9-11 Feb.22 | PF | Feed & Fodder Management | Animal Science | Feed & Fodder Management | 4 | KVK | 32 | 04 | 36 | 04 | 00 | 04 | 36 | 04 | 40 |
| 16-18 Feb.22 | PF | Importance of Vaccination in management of various disease in livestock animals | Animal Science | Disease Management | 4 | KVK | 15 | 00 | 15 | 00 | 00 | 00 | 15 | 00 | 15 |
| 9-11 March, 22 | PF | Poultry Farming | Animal Science | Poultry farming | 4 | KVK | 20 | 04 | 24 | 03 | 13 | 16 | 23 | 17 | 40 |
| 14-16 March, 22 | PF | Clean Milk Production & Value Addition | Animal Science | Value addition | 4 | KVK | 00 | 03 | 03 | 00 | 14 | 14 | 00 | 17 | 17 |
| | | **Total (5)** | | | | | **67** | **11** | **78** | **07** | **42** | **49** | **74** | **53** | **127** |
| **v.** | | **Home science** | | | | | | | | | | | | | |
| 25-28 Feb.22 | PF | Women & Child Care | Home Science | Women & Child Care | 4 | Tepla | 02 | 02 | 04 | 04 | 32 | 36 | 06 | 34 | 40 |
| 5-9 March, | PF | Nutritional food security | Home Science | Kitchen gardening | 4 | KVK | 02 | 12 | 12 | 10 | 32 | 42 | 12 | 44 | 56 |

| Date | Clientele | Title of the training programme | Discipline | Thematic area | Duration in days | Venue (Off / On Campus) | Other Participants | | | Number of SC/ST | | | Total participants | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M | F | Total | M | F | Total | M | F | Total |
| 22 | | through Kitchen gardening | | | | | | | | | | | | | |
| 27-31 May, 22 | PF | Women empowerment through income generating activities | Home Science | Women empowerment | 4 | KVK | 00 | 00 | 00 | 00 | 18 | 18 | 0 | 18 | 18 |
| 29 Aug. 3 Sep, 22 | PF | Nutrition , Health & Hygiene | Home Science | Nutrition Management | 4 | Samlehri | 00 | 00 | 00 | 00 | 25 | 25 | 0 | 25 | 25 |
| | | **Total (4)** | | | | | **4** | **14** | **16** | **14** | **107** | **121** | **18** | **121** | **139** |
| **vi.** | | **Agricultural Extension** | | | | | | | | | | | | | |
| 22-23 Aug. 22 | PF | Water Conservation under Jal Shakti Abhiyan | Agril. Extn. | Jal Shakti Abhiyan | 4 | Rachheri | 07 | 00 | 07 | 03 | 00 | 03 | 10 | 00 | 10 |
| 20-21 April, 22 | PF | Water harvesting & Conservation Catch the Rain under JSA | Agril. Extn. | Jal Shakti Abhiyan | 4 | Dhanaura | 02 | 01 | 03 | 02 | 33 | 35 | 04 | 34 | 38 |
| 2-5 Dec., 22 | PF | Leadership Development | Agril. Extn. | Leadership Development | 4 | Jangumajra | 00 | 07 | 07 | 00 | 22 | 22 | 00 | 29 | 29 |
| | | **Total (3)** | | | | | **09** | **8** | **17** | **05** | **55** | **60** | **14** | **63** | **77** |
| | | **Grand Total (28)** | | | | | **296** | **32** | **326** | **34** | **207** | **242** | **330** | **241** | **571** |
| | | | | | **II.** | **Rural Youth** | | | | | | | | | |
| 12-25 April, 22 | PF | Value addition of Milk & Milk products | Animal Science | | 4 | On campus | 00 | 00 | 00 | 00 | 15 | 15 | 00 | 15 | 15 |
| 2-11 July, 2022 | RY | Value added products of Fruits & Vegetables | Home Science | Value addition | 10 | On campus | 00 | 00 | 00 | 00 | 15 | 15 | 00 | 15 | 15 |
| 7-16 Sept. 2022 | RY | Mushroom production & management | Plant Protection | Mushroom production | 11 | On campus | 0 | 0 | 0 | 19 | 21 | 40 | 19 | 21 | 40 |
| 18-09-2022 to 8-10-2022 | RY | Mushroom production & management | Plant Protection | Mushroom production | 21 | On campus | 49 | 11 | 60 | 00 | 00 | 00 | 49 | 11 | 60 |
| 5-19 Dec.2022 | RY | Poultry production & management | Animal Science | Poultry farming | 15 | Janju Majra | 02 | 00 | 02 | 28 | 06 | 34 | 30 | 06 | 36 |
| 7-27 Dec. 2022 | RY | Value addition of seasonal fruits & vegetables | Home Science | Value addition | 21 | Jangu Majra | 00 | 00 | 00 | 00 | 30 | 30 | 00 | 30 | 30 |
| 7-27 Dec., 2022 | PF | Vermi compost production & Marketing | Agronomy | Vermi compost | 21 | On Campus | 00 | 00 | 00 | 7 | 22 | 00 | 7 | 22 | 29 |
| | | **Total (7)** | | | | | **51** | **11** | **62** | **54** | **109** | **134** | **105** | **120** | **225** |
| | | | | | **III.** | **Extension Functionaries** | | | | | | | | | |
| 15-10-2022 | EF | Nutritional security by kitchen gardening | Home Science | Nutritional security by kitchen gardening | | -- | 00 | 18 | 00 | 00 | 02 | 02 | 00 | 20 | 20 |
| | | **Total (1)** | | | | | **00** | **18** | **00** | **00** | **02** | **02** | **00** | **20** | **20** |
| | | **Grand Total (I+II+III) 36 No.** | | | | | **347** | **61** | **388** | **88** | **318** | **378** | **435** | **381** | **816** |

# Training Programmes

Leadership Development under SCSP

Jal Shakti Abhiyan

Mushroom Production & Management

Practical session of Mushroom Training


Disease Management in Sugarcane

Disease Management in Chilli


ASCI : Gardener Keeper


Weed Management in Onion

Pig Production & Management


Poultry farming

Feed & Fodder Management


Crop Residue Management


Inservice Training : Kitcehn gardening


Value addition in Seasonal Vegetables & Fruits


Integrated Crop Management of Tomato


Crop Residue Management

# IV. EXTENSION ACTIVITIES

## Kisan Mela : ( Participants )

Kisan ki Bhagidari Prathmikta Hamari (Natural farming)


Jal Shakti Abhiyan


Crop Residue Management

Crop Residue Management

## Exhibitions : 5 (2081 Farmers)


# T.V. Talk/ Chopal Charcha

Radio Talk : Water Conservation

DD Kisan Channel Krishi Startup (Organic Farming)

Chopal Charcha : ARYA

Chopal Charcha : Natural farming

**Field Days : 6 (367 Participants)**


Field Day on Wheat (CRM)


Field Day on Chickpea

## Ex-trainees Sammelan : 2 (55 Participants )


Pig farmers

Poultry Farmers

## Celebration of Important days : 5 (586 Participants)


International Women Day (8.3.22) KVK

ICAR Foundation Day (16.7.22) Online


National Girl Child day (24.1.22)


World Soil Day (5.12.22) Shahzadpur


Kisan Samman Diwas (23.12.22) KVK


International Yoga Day (21.6.22)


World Pulse Day (10.2.22) KVK


Mahila Kisan Diwas (15.10.22) KVK

**Exposure visits : 14 (555 Participants)**




**TECHNOLOGY WEEK : 1 (3478 farmers)**

| | |
|---|---|
| **Farmers visited to KVK :150** | 1633 Farmers & Farm women |
| **Advisory Services : 649** | **9029 Farmers** |
| **Diagnostic visits : 102** | **594 Farmers** |

# 4. PUBLICATIONS

| Type of Publication | No | |
|---|---|---|
| **Research papers** | **5** | **NAAS rating: < 6.0 : 1**<br>**NAAS rating: 6.0-7.0 : 4** |
| **Books/Book Chapters** | 2/3 | |
| **Abstracts** | 2 | |
| **Popular articles** | 4 | |
| **Leaflets/Folders** | 3 | - Ex-situ ke madhyam se fasal awshesh prabandhan<br>- Kenchua khad ka utpadan evm mahtav<br>- Genhu ki fasal ka paudh sanrakshan |

# 5. RECOGNITION AWARD

| Name of Recognition/Award | Conferring Organisation |
|---|---|
| Best Extension Scientist award (National Conference of Natural Farming, Organic Farming & Chemical Farming in Indian Agriculture Present Scenario and Way Forward ) | Society of Krishi Vigyan |
| National Fellow Award | Society for Advancement of Agricultural Sciences |
| Best Poster Presentation (Annual Zonal Review Workshop for KVKs ) | ICAR-ATARI, Jodhpur |
| Best Poster presentation Award (National Conference of Natural Farming, Organic Farming & Chemical Farming in Indian Agriculture Present Scenario and Way Forward ) | Society of Krishi Vigyan |
| Best Poster Presentation in ICPulses-2023 | Indian Society of Pulses Research and Development (ISPRD) |
| Progressive Farmer Award (Sh. Lal Chand) | CCS Haryana Agricultural University, Hisar |

# 6. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

**Production of seeds by the KVKs**

| Crop | Name of the crop | Name of the variety | Quantity of seed (q) | Value (Rs) | Number of farmers |
|---|---|---|---|---|---|
| Cereals | Wheat | DBW-187 | 25.87 | 83200.00 | 23 |
| | Paddy | P.R.-126 | 7.80 | 31200.00 | 23 |
| | | P.R.-1121 | 7.70 | 453900.00 | 22 |
| Vegetables | Potato | Kufri Chipsona-3 | 101.22 | In Stock | -- |
| | | Kufri Pukhraj | 71.70 | | |
| | Onion | -- | -- | -- | -- |
| **Total** | | | **40.77** | **164100.00** | **68** |

**Production of planting materials by the KVKs**

| Crop | Name of the crop | Name of the variety | Number | Value (Rs.) | Number of farmers |
|---|---|---|---|---|---|
| Fruits | Mango | Dasheri, Amarpali, Langra & Mallika | 500 | 9000 | 125 |
| | Lemon | Baramasi & Kagzi Kalan | 20 | 2120 | 6 |
| | Guava | L-49, Hisar Safeda, Allahabad Safeda | 7 | 490.00 | 5 |
| Forest Species | Poplar | G-48 | 2500 | 32500.00 | 2 |
| Mushroom | Mushroom | Button | 100 kg. | 7000.00 | 27 |
| **Total** | | | **2787** | **43390.00** | **32** |

**Production of Bio-Products**

| Bio Products | Name of the bio-product | Quantity Kg | Value (Rs.) | No. of Farmers |
|---|---|---|---|---|
| Bio Fertilisers | Vermi Compost | 5000 | 15000.00 | KVK farm |

**Table: Production of livestock materials**

| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers |
|---|---|---|---|---|
| Cows | Sahiwal, Gir | 4 | -- | 0 |
| Poultry | Chabron | 1081 | 139470.00 | 85 |
| Piglet | Large White Yorkshire | 128 | 358400.00 | 10 |
| Goat | Barbari | 1 | 5940.00 | 1 |
| Buck | Barbari | 3 | 18050.00 | 2 |
| **Total** | | **1217** | **521860.00** | **98** |

# 7. SUCCESS STORY

## I. Nursery Management

**INTRODUCTION :**

**Name of youth-** Sh. Darshan singh
**Complete address-** Farm Baba Nursery, Village Patvi, Sahazadpur, Ambala (Haryana.)
**Mob. No.** 980284674

**BACKGROUND/SITUATIONAL ANALYSIS/BENCHMARK :**

Ambala district is known as leading vegetable producing district in Haryana. In the present scenario the availability of genetically improved propagates material of fruit and Medicinal plants basis on locality. This is possible due to the makeover technical research in the field of Horticulture science. These young farmers of Ambala districts adopt the Fruit, Medicinal Nursery and Vermi compost management as an entrepreneur.

Mr. Darsan Singh 30 years old farmer lives in village Patvi, Ambala district of Haryana. His education is Post Graduation in Poltical science. He has taken Skill based training on Nursery management &Vermi Compost under ARYA project at KVK, Ambala. After getting training, he had strated Nursery unit and earning net profit Rs. 13,75,000/-. His hard work and dedication have led to his success story being spread all across Ambala youth.

**TECHNICAL INTERVENTION:**

He completed skill development training from KVK, Ambala under ARYA project during 2019 on Nursery management and also visited the Center for vegetable excellence, Karnal, Haryana through KVK for first-hand exposure related to enterprise establishment.With the aspiration to start the vegetable nursery, he participated in the training. The technical guidance regarding Nursery structures, media to be approach for publicity and marketing, linkages with facility providers etc. provided by KVK team.

**ESTABLISHMENT OF ENTREPRENEURIAL UNIT:**

He established Nursery unit in 2019 under ARYA project. The following materials assistance is provided to him under ARYA project.

| S.No. | Particulars | No./Quantity | Amount (Rs.) |
|---|---|---|---|
| 1 | Guava | 125 | 10000 |
| 2 | Mango | 125 | 13750 |
| 3 | Lemon | 150 | 12000 |
| 4 | Green Net | 1 (60) Meter | 3500 |
| 5 | Mud pot | 25 | 1500 |
| 6 | Arica palm | 35 | 4375 |
| 7 | Song of india | 10 | 500 |
| 8 | Aricariacooki | 10 | 700 |
| 9 | Hibiscus | 10 | 1100 |
| 10 | Bougainvillea | 10 | 800 |
| 11 | Cocopit | 2 (80) Kg | 1200 |
| 12 | Croton | 10 | 1200 |
| 13 | Ficus Panda | 10 | 300 |
| | **Total** | | **50925** |

## LINKAGES:

KrishiVigyan Kendra is also strengthening his unit by linking him with the Government Departments & private companies for assistance and help :

- Department of Horticulture for Govermnet Schemes & Technical guidance
- Department of Excellence for Vegetables, Gharaunda
- NHRDF, Salaru, Karnal

**MARKETING APPROACH:**

- Schools & Colleges for Beautification of Campus, Ornamental plants & Pots
- Private Companies & Local Nursery for nursery plants
- Marriage Palace & Hotels
- Online Marketing through Amazon (Napier Grass, Insulin & Apple root stock etc.)
- Stall in Kisan Mela (organised by KVK)

**ECONOMICS (Year: 2022)**

| S.No. | Name of the Plant | No. of Plant Produce | Rate/ Seedling/ Plant (Rs.) | Gross Income (Rs.) | Raising Cost Seedling/ Plants (Rs.) | Total Expenditure (Rs.) | Net income (Rs.) |
|---|---|---|---|---|---|---|---|
| **A.** | **Fruit Plants** | | | | | | |
| 1. | Mango | 700 | 150 | 105000 | 80 | 56000 | 49000 |
| 2. | Litchi | 500 | 130 | 65000 | 90 | 45000 | 20000 |
| 3. | Guava | 1000 | 70 | 70000 | 40 | 40000 | 30000 |
| 4. | Grapes | 700 | 80 | 56000 | 50 | 35000 | 21000 |
| 5. | Sapota | 500 | 150 | 75000 | 80 | 40000 | 35000 |
| 6. | Citrus | 1000 | 80 | 80000 | 50 | 50000 | 30000 |
| 7. | Citrus reticulate | 500 | 100 | 50000 | 80 | 40000 | 10000 |
| 8. | Citrus limetta | 500 | 80 | 40000 | 50 | 25000 | 15000 |
| 9. | Citrus cinensis | 500 | 100 | 50000 | 60 | 30000 | 20000 |
| 10. | Ber | 800 | 200 | 160000 | 100 | 80000 | 80000 |
| 11. | Pomegranate | 800 | 100 | 80000 | 70 | 56000 | 24000 |
| 12. | Pear | 800 | 120 | 96000 | 70 | 56000 | 40000 |
| | **Total** | 8300 | | 927000 | | 553000 | 374000 |
| **B** | **Medicinal Plant** | | | | | | |
| 1. | Eletteriacardemomum | 500 | 250 | 125000 | 170 | 85000 | 40000 |
| 2. | Cymbopogon flexuous | 500 | 120 | 60000 | 80 | 40000 | 20000 |
| 3. | Ficus carica | 700 | 300 | 210000 | 200 | 140000 | 70000 |
| 4. | Stevia rebaudiana | 600 | 130 | 78000 | 70 | 42000 | 36000 |
| 5. | Moringa oleifera | 500 | 100 | 50000 | 40 | 20000 | 30000 |
| 6. | Cinnamomum tamala | 500 | 200 | 100000 | 150 | 75000 | 25000 |
| 7. | Murrayakoennigii | 500 | 150 | 75000 | 80 | 40000 | 35000 |
| 8. | Nyctanthis arbor | 500 | 100 | 50000 | 50 | 25000 | 25000 |
| 9. | Phyllanthus emblica | 500 | 150 | 75000 | 90 | 45000 | 30000 |
| 10. | Ajbayan | 1000 | 100 | 100000 | 50 | 50000 | 50000 |
| 11. | Withaniasomnifera | 1000 | 80 | 80000 | 40 | 40000 | 40000 |
| | **Total** | **6800** | | **1003000** | | **602000** | **401000** |
| **C** | **Napiar Grass 20 (Fodder) Setts** | 800000 | 1.5 | 1200000 | 0.75 | 600000 | 600000 |
| | **Grand Total (A+B+C)** | | | **3130000** | | **1755000** | **1375000** |

**SPREAD OF THE TECHNOLOGY:**

- Sh. Darshan Singh become inspiration & leading youth by adopting self employment through Nursery Management
- The youth of the district approaching KVK for seedking guidance for their agricultural land to get good returns.
- Horizontal spread of technology within village & nearby villages : 5 units
- Exposure visits orgnaised at his Nursery unit during training programme on Nursery Management
- He is actively participated in Exposure visits, Kisan Mela, Kisan Gosthi etc for knowledge upgradation

**RECOGNITION & AWARDS:**

- You tube channel : Farming Leader @farmingleaderOfficial (5.66 M Subscribers)
- Awarded by Krishi Vigyan Kendra, Ambala in Kisan Mela

# PHOTOGRAPHS

**KVK team visited at Nursery Unit**

**Farm Advisory at Nursery unit**

**Farmer-Scientists Interaction on Nursery**

**Hon'ble President, SCHE visit at Unit**

**On Line Produce Marketing-Amazon**

# II. CROP DIVERSIFICATION: A STEP TOWARDS ENHANCED PRODUCTIVITY & FARMERS INCOME

**Profile**

| | | |
|---|---|---|
| Name | : | Sh. Sandeep Saini |
| Address | : | Village Akbarpur<br>Post Bihta, Ambala-133101(Hry.) |
| Mob.No. | | 9466690175 |
| Age | : | 35 yrs. |
| Education | : | 10+2 (Senior Secondary) |
| Landholding | : | 3.2 acres |
| Farming Exp. | : | 15 years |

## SITUATION ANALYSIS:

Sh. Sandeep Saini is young, energetic farmer from agriculture backround having small landholding approximately 3.2 acres. Available land having sandy loam soil texture with tubewell as source of irrigation. Having fifteen years experience in agriculture, he is keen to adopt the new interventions/ technologies in agriculture to enhance the productivity from his land. He has cultivated cereals and cash crop round the year viz; Rice, Wheat, Sugarcane & Mustard, Potato, Pulses and other vegetables which is not profitable.

## KVK INTERVENTION:

After having contact with KVK team, various options, cropping pattern, viability, and economics discussed to enhance the productivity. From discussion he is eager to make changes in cropping pattern viz; Rice- Potato- Lentil- Moong under supervision of KVK team and excited to become leading farmer. With the challenge he started sowing recommended cropping pattern in 2018 and thereby motivating other farmers for adopting suggested cropping pattern.

## TECHNOLOGY IMPLEMENTATION:

Technological backstopping given by KVK experts to enhance income is

A. Cropping Pattern : Rice – Potato- Lentil- Moong
B. Technological Intervention :
   - Sowing of Rice with 'DSR' technique
   - Potato planting through 'Bed planter'
   - Lentil & Moong by Drill machine (Line sowing method)

He started growing above Cropping pattern with improved sowing techniques, recommended dose of fertilizers & timely control of Insect, Pest attack he is getting good returns as compared to previous method.

**CROPPING HISTORY :**

| S.No. | Crop | Variety | Date of sowing/ transplanting | Date of Harvesting |
|---|---|---|---|---|
| 1 | Paddy | Arize-6129 | 15 June | 18th September |
| 2 | Potato | Pukhraj | 20th September | 1st December |
| 3 | Lentil | L-4727 | 4th December | 27th March |

## BENEFITS:

Mr. Saini produces 70 qtls/ha paddy with net return of Rs. 92535/-, Potato with 257.90 qtl/ha with net return Rs. 159225/- and Lentil with 18.75 qtl./ha with net return of Rs. 9500/-.

## ECONOMICS:

| Crops | Yield (qtl./ha) | Cost of Cultivation (Rs./ha) | Gross Return (Rs./ha) | Net Return (Rs.) |
|---|---|---|---|---|
| **Paddy** | **70.00** | **38225** | **130760** | **92535** |
| **Potato** | **257.50** | **180775** | **350200** | **159225** |
| **Lentil** | **18.75** | **58500** | **150000** | **91500** |

**SPREAD OF THE TECHNOLOGY:**

- Mr. Saini become inspiration & leading farmer by adopting scientific recommended cropping pattern with improved agriculture technologies.
- The farmers of the district approaching KVK for seeking guidance for their agricultural land to get good returns.
- Horizontal spread of technology within village & nearby villages (Sambhalkha, Bihta, Ghasitpur, Dukheri & Chudiala) is 30 ha.
- Exposure visit during field day (Lentil) under Cluster Front Line Demonstrations on Pulse crop (NFSM) organized at his field .
- He is actively participating in Exposure visits, Kisan Mela, Kisan Gosthi, Jal Shakti Abhiyan, World Soil Day etc for knowledge upgradation of himself & others.
- Video clipping of his success is shown to others during Kisan Melas, Training Programmes & other extension activities.

**Photographs:**

| | |
|---|---|
|  |  |
| **Farmers-scientists interaction on Lentil crop** | **Field Day on Lentil** |
|  |  |
| Potato production | Scientists visited at farmers field |

## II. Success story : Self employment through Button Mushroom

**Profile**

| | | |
|---|---|---|
| Name | : | Sh. Ashok Kumar |
| Address | : | Village Saha<br>Post Saha, Ambala-133104<br>(Hry.) |
| Mobile No. | : | 8950136466 |
| Age | : | 38 yrs. |
| Education | : | Graduate |
| Landholding | : | 4.5 ha |
| Farming Experience | : | 15 years |
| Unit Details | : | Year of Establishment : 2020-21<br>Button Mushroom (*Agaricus bisporus*)<br>Area : 15'X 60' (900 sq.ft.) |

**Situation Analysis & background:**

Mr. Ashok Kumar, recognized as marginal farmer, having 4.5 ha cultivable land. He is residing with a joint family whose responsibility is on his shoulder for survival & fulfillment of their daily needs.

He has cultivated cereals and cash crops round the year like; Wheat, Rice & Sugarcane, which is not profitable . He wants to adopt advance new agriculture technologies for which he had contacted experts of KVK.

**KVK intervention :**

After having contact with KVK team, Mr. Ashok Kumar was motivated to attend Mushroom training and its management technique in 2020-21. During training programme the exposure visits organized at Directorate of Mushroom Research , Solan, HAIC Agro R & D Centre, Murthal and Mushroom units established by KVK in nearby villages. Mr. Ashok Kumar also interacted with Experts and Master trainers during training programme.

Later after received skilled based training on Mushroom cultivation, he started cultivating Button Mushroom with 500 compost bags. Time to time farm advisory services provided by KVK, Ambala during unit establishment, compost preparation, Disease Management etc. The linkages developed with Horticulture Department, Ambala City , Directorate of Mushroom Research, Solan , HAIC Agro R&D Centre, Murthal , NABARD & Bakers , Hotels & Restaurants , Local Market and Progressive farmers/ Farm women for Subsidy, Schemes, Value added products of Mushroom, Spawn, Loan , marketing purpose.

**Technology Implementation and Uptake :**

Mushroom unit started by Mr. Ashok Kumar with 500 bags in the year 2020-21 with the scientific guidance from KVK experts. In the initial start up with 500 bags , he had earned good income which motivate him to expand his unit from 500 bags to 1500 bags. Further, he had prepared 100 quintals of button compost with the help of KVK from which 1000 to 1200 bags were prepared and thereby minimized the buying cost of single bag i.e. Rs. 45/bag in comparison with available local bags in market .

KVK expert advised the marketing of mushroom in plastic buckets as it will improve sale as compared to selling of produce in poly bags. After adopting new trait Mr. Ashok achieved good sale price in the local as well as in Ambala vegetable mandi, approximately 6 to 8 rupees additional benefits he has gotten on sale of each 200 gm basket. Last year, Mr. Ashok Kumar has been converted his seasonal mushroom unit into the automatic control AC unit with the scientific guidance of expert of KVK Ambala. After that he has sifted 2500 bags on the Bamboo racks by self-making of button compost (200 quintals) and having profit of Rs. 825000/. KVK, Ambala provides or linkage his produce of button mushroom in the nearby hotels as well as local dealers of mushroom transporters.

**Benefits:**

Mr. Ashok Kumar, said during the year (2020-21) of starting to the button seasonal mushroom unit of 500 bags,he has gotten net profit of Rs. 140000/. In continuation, into the second year (2021-22) he expended his unit from 500 bags to 1200 bags and then he calculates his profits come out approximately Rs. 527000/ when he made his own button compost and save extra cost of buying of bags from out sources. Sequentially Mr. Ashok was obtained profit Rs. 825000/ from ac unit of 2500 bags.

| Year | Size of unit | Number of bags | Expenditure (Rs.) | Production (Kg) | Average sale price (Rs.) | Profit (Rs.) | Net profit |
|---|---|---|---|---|---|---|---|
| 2020-21 | 15x30 feet | 500 | 40000 | 1500 | 120 | 180000 | 140000 |
| 2021-22 | 15x60 | 1200 | 25000 | 4800 | 115 | 552000 | 527000 |
| 2022-23 (AC unit) Upto Sep. 2022 | 15x60 | 2500 | 210000 | 7500 | 110 | 825000 | 615000 |

**Spread of the technology:**

- Mr. Ashok Kumar become an inspiration & role model of Self employment through Mushroom production in youth of nearby area
- After seen this technology benefit some others rural youth come to KVK and wish to take this training programme and they were formed a cluster group for starting to the large ac unit with the guidance of KVK.
- Exposure visit during Mushroom training are being organized his Mushroom Unit
- He developed a doorstep marketing channel by which he sold his Button Mushroom to the nearby farmers and farm women
- Horizontal spread : 45 units established within & nearby village
- At present this technology spread approx. 650 rural youth which included huge numbers of woman particularly.
- Short video clip prepared by KVK
- Publicity : Establishment of Fixed Iron Board, Whatsapp group & You tube channel

**Feedback:**

Mr. Ashok Kumar, was very kind after adopting this technology in his life and also he have achieved double benefit because he had used wheat crop straw into the making of button mushroom compost and he has run his mushroom unit with agriculture farming, so for that his family gotten two incomes which were supported him to uplifted his life as well as his minimizing the needs of life. And they were work on how to take extra land for another unit establishment in future along with this the woman of his house already work under this own unit and gives extra job to the village rural woman as well as young boys during the need of cultivation period of time like; compost preparation, its harvesting or packaging and marketing also.

# PHOTOGRAPHS

Participation in Mushroom Training


Board established for wide Publicity

Bamboo racks prepared for Mushroom

Farm Advisory Services

Scientists visited at Mushroom Unit

Scientists visited at Mushroom Unit

Scientists visited at Mushroom Unit

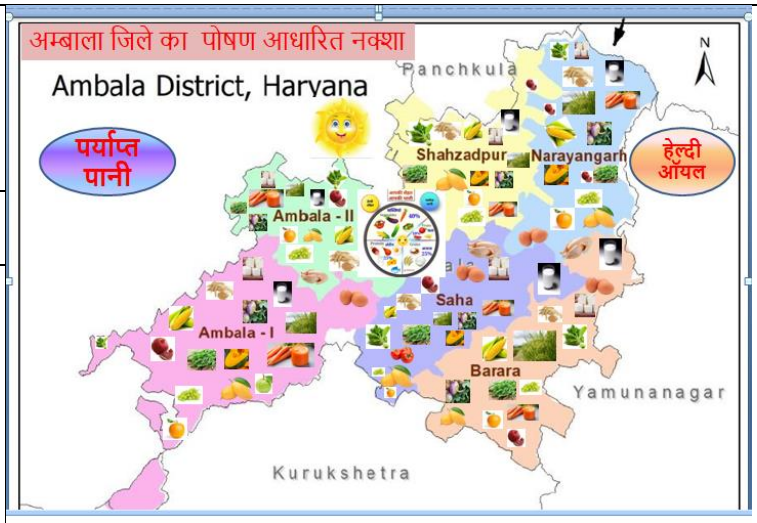
Scientists visited at Mushroom Unit

Hon'ble Director, ATARI, Jodhpur & President, SCHE visited at Mushroom Unit

# 8. PROJECTS

## 1. Nutri Sensitive Agricultural Resources & Innovation (NARI)

| | | |
|---|---|---|
| **Selected Villages:**<br>Cluster I : Phulelmajra & Akbarpur<br>Cluster II : Ahmadpur & Chajjan Majra | | |
| **No. of Farm famlies** | **:** | **150** |
| **Size of Kitchen garden** | **:** | 50 sq $m^2$ |




## Activities at A Glance

| Activities | Photographs |
|---|---|
| **I. Meeting attended:**<br>1. Presentation in Review Meeting of Nutri Smart Village (18-19 July,22) at ATARI, Jodhpur.<br>2. NSV Project - Assesing dietry , diversity and consumption pattern and nutritional security under NSV Project (16.11.2022)<br>3.Gender and Nutrition Project (13-12-22) orgnaised by ATARIl Jodhpur |  <br>***Review meeting of Nutri Smart Village*** |
| **II. Survey**<br>Gender and Nutrition Network Project<br>Akbarpur & Ahmadpur |  <br>Survey in Ahmadpur |
| |  <br>Survey for Gender and Nutrition Network Project |

**III. Front Line Demonstrations :**

i. Kitchen gardening

ii. Bio fortified varieties of Wheat (DBW-187, DBW-222, DBW- 303

iii. Bio fortified variety of Mustard : PM-33

iv. Bio fortified variety of Lentil : L-4717

v. Improved variety of Onion : NHRDF-Red



Kitchen garden

**IV. Trainings:**
**8 No.** (253 Participatns)

i. Women & Child care (25-28 Feb.22)
ii.
iii. Nutrition, Health & Hygiene (29 Agu.-3 Sep.22)
iv.
iii.Value addition of Milk (12-25 April, 22)

v. Value added products of Seasonal Fruits & Vegetables (2-11 July,22)
vi.
v. Mushroom production & management (7-16 Sep.22)
vi.
vi.Poultry farming (9-11 March, 22)
vii.Clean Milk production & Value addition 14-16 March,22)

viii.Nutritional security by kitchen gardening (15.1022)



Food security through Kithen gardening

Value adition of Fruits & Vegetables

Clean Milk production & Value

Poultry farming

| | | |
|---|---|---|
| | Addition | |
| |  |  |
| | Value addition of Milk | Women & Child care |
| **V. Method Demonstrations : 9 (214 farm women)**<br>i. . Soap & Detergent making (9.3.22)<br>ii. Bottle planting (7.3.22)<br>iii. Clean Milk Production (15.3.22)<br>iv. Aam Panna & Aam papad making (4 & 28 May,22)<br>v.Jewlerry making 29.5.22)<br>vii. Dhoop Batti making (Incense making) 30.5.22<br>viii. Value addition of vegetables (7.9.22)<br>ix. Nutri Thali (7.9.22)<br>x. Pickle making (24.12.22)<br>x. Eco-phenyl solution (24.2.22) |  |  |
| | Aam Papd & Aam Panna making | Nutri Thali |
| |  |  |
| | NARI | Soap & Detergent making |
| **Vi.Awareness Programmes: 11 (532 farm women)**<br>1. Bio fortified varieties of Wheat (15.3.22)<br>ii.Importance of balanced diet & Nutri Thali (1.9.22)<br>iv. Food Pyramid (5.9.22)<br>v. Govt schemes for Women & Child welfare (7.9.22)<br>vi. Fundamental of Meal planning (8.9.22)<br>vii. Importance of balanced diet & Nutri thali (13.9.22)<br>viii. Nari Awareness Programme (1-30 April, 22) |  |  |
| | Importance of balanced diet | NARI |
| |  |  |
| | Importance of balanced diet & Nutri Thali | Capacity building training |

| | | |
|---|---|---|
| ix. CRM (15.10.22)<br>x. Jal Shakti Abhiyan |  |  |
| | Jal Shakti Abhiyan | Jal Shakti Abhiyan |
| **VII.Kisan Gosthi : 9 (245 Farm Women)**<br>i. NARI (1.1.22, 6.1.22, 11.1.22, 15.1.22, 18.1.22)<br>ii. Women & Child care (22.2.22 & 21.6.22)<br>iii.Breast feeding of Mother (28.2.22)<br>iv. Women Empowerment (29.11.22) |  |  |
| | Women & Child care | Breast feeding of Mother |
| **VIII.Exhibitions /Competition: 4 No. (383 farm women)**<br>i. Art & Craft (8.3.22)<br>ii.Nutri Thali (17.9.22)<br>iii. Art & Craft (26.4.22)<br>iv.Rights of Women (Poster) (24.1.22) |  |  |
| | Exhibition : Art & Craft | Competition : Poster making |
| **IX. Important Days :** 7 (1158 farm women )<br>i. National Girls Day (24.1.22)<br>ii.International Women Day (8.3.22)<br>iii.World Pulse Day(10.2.22)<br>iv.Plantation & celebration of Azadi ka Amrit Mahotsava (12.8.22)<br>v.Nutrition Month (Sep.22)<br>vi.Poshan Day & Vriksharopan karyamaram (17.9.22) |  |  |
| | National Girls Day | International Women Day |
| |  |  |
| | Nutrition Month | Mahila Kisan Diwas |

| | | |
|---|---|---|
| **X. Exposure visits : 4**<br>**(266 farm women )**<br>i. IIWBR, Karnal (15.3.22)<br>ii.Kisan Mela Shahzadpur(14.9.22)<br>iii. Kiran Agro, Saha (14.9.22, 8.10.22)<br>iv.PM Kisan Sammelan, New Dehi (17.10.22) |  |  |
| | IIWBR, Karnal | Kiran Agro Mushroom Farm |
| **XI.Technical Support by KVK Team : FAS , Knowledge & Skill Upgradation** |  |  |
| |  |  |
| **XII. Linkages :** |  |  |
| | IFFCO, Ambala | Child & Women Department, Ambala |
| **XIII.Awards** |  |  |

<table>
<tr><td rowspan="2">XIV. Details of Plants/ Samplings/Kitchen garden kits<br>I. Kitchen Garden Kit (100)<br>II. Samplings (200)<br>- Onion<br>III.Fruit Plants (100)<br>- Lemon & Guava</td><td>  </td><td>  </td></tr>
<tr><td>Plants provided to farm women</td><td>Vegetables seeds provided</td></tr>
<tr><td rowspan="2">XV.Unit Established</td><td>  </td><td>  </td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>XVI. Impact of Kitchen Garden</td><td colspan="2">- 100% skill adoption<br>- Family Income saving– 80%<br>(Rs. 3500-4800/ year unit size 50 sq $m^2$)</td></tr>
<tr><td colspan="3">XVII. Whatsapp Group formation for knowledge updates : 5</td></tr>
<tr><td>XVIII. News</td><td colspan="2">5</td></tr>
</table>

# 2. Attracting & Retaining Youth in Agriculture(ARYA)

**I. Objectives :**

i. To attract & empower youth in Rural Areas to take up various agriculture, allied and service sector enterprises for sustainable income & gainful employment in selected districts

ii. To enable farm youth to establish network groups to take up resource & capital intensive activities like processing, value addition and marketing

iii. To demonstrate the functional linkage with different institutions & stakeholders for convergence of opportunities available under various schemes/program for sustainable development of youth.

II. **Enterprises :**

i. Piggery
ii. Poultry
iii. Mushroom Cultivation
iv. Nursery Management & Vermi Compost

**II. Activities**

| Dated | Activity | Venue | Participants |
|---|---|---|---|
| I | Arya Meeting (30.12.2022) | ICAR-ATARI, Jodhpur | 4 |
| **II** | **Extension Activities** | | |
| -- | Extension Literature distributed (4) | -- | 150 |
| | Farm Advisory Services | Various villages | 213 |
| | **Video (2)** | | |
| **III.** | **Social Media :** KVK portal, Mkisan Portal, Facebook, Website, Whatsup group etc. | | |

**III. Youth Transformed into Agripreneurs**

| Sl. No. | Enterprises | Youth trained (No.) | Unit established (N.) | Youth visited | Whatsapp group (No.) |
|---|---|---|---|---|---|
| 1 | Piggery | 50 | 32 | 89 | 1 Member: 45 |
| 2 | Poultry | 50 | 45 | 64 | 1 Member: 50 |
| 3 | Mushroom Cultivation | 72 | 44 | 35 | 1 Member: 55 |
| 4 | Nursery Management<br>Vermi Compost | 52 | 06<br>13 | 50<br>35 | 1 Member: 50<br>1 Member: 50 |
| | **Total** | **224** | 140 | **273** | **5 (250)** |

**IV. IMPACT ( 2018-19 to 2022-23)**

| Sl. No. | Enterprises | Size of unit (No.) | Production Cost (Rs./yr./unit) | Gross return (Rs./yr./unit) | Net Return (Rs./yr./ unit) |
|---|---|---|---|---|---|
| 1 | Piggery | 10+1 | 1,15,000-155000 | 250,000-3,10,000 | 1,25,000-1,65,000 |
| 2 | Poultry | | | | |
| | i. Poultry (Small scale) | 25-30 birds | 6,500-10,000 | 25,000 to 30,000 | 20,000 to 25,000 |
| | ii. Commercial | 1000-5000 birds | 2,60,000 | 7,00,000 to 8,00, 000 | 4,00,000 to 5,00,000 |
| 3 | Mushroom Cultivation | 300 compost bags | 31,218 (season) | 67,500 (season) | 36,282 (season) |
| 4 | Nursery Management & Vermi Compost | 1000 m2<br>14000 m2<br>240 ft. | 8,50,000<br>20,00,000<br>15,000 | 12,00,000<br>32,00,000<br>48,000 | 1.20 lacs (4 month)<br>12,00,000<br>33,000 |

# Photographs (ARYA)

Hon'ble Director visited Mushroom Unit

Nursery unit visited by Hon'ble President, SCHE

Hon'ble DEE, Luvas, Hisar visited at Nursery unit

Pig unit visited by Hon'ble DEE, Luvas, Hisar

Nursery Stall in Kisan Mela

On-line marketing of Nursery plants

Vermi compost unit established under ARYA


Vermi Compost unit visited by Hon'ble Director, ATARI, Jodhpur & Hon'ble President, SCHE

Poultry birds provided for Unit establishment

Ex-trainees Meet on Poultry

Farm Advisory services at Nursery Unit

Advisory Services at Poultry Unit

# 3. SCHEDULED CAST SUB PLAN (SCSP Scheme)

| Dated | Title | Duration | Venue | Male | Female | Total |
|---|---|---|---|---|---|---|
| 5-8 March, 22 | Food Security through kitchen garden | 4 | Samlehri | 0 | 17 | 17 |
| 2-11 July, 2022 | Value addition (Vegetables & Fruits) | 10 | KVK | 0 | 15 | 15 |
| 29 Aug.-03 Sep.,22 | Nutrition Health & hygiene | 6 | Samlehri | 2 | 37 | 39 |
| 7-16 Sept. 22 | Mushroom production & management | 10 | KVK | 19 | 21 | 40 |

## I. Impact

| Enterprises | Year | Units (No.) | Unit size | Net Income (Rs.) |
|---|---|---|---|---|
| Mushroom | 2021-22 | 21 | 20 to 800 bags | 3,500-1,12,000/season |
| | 2022-23 | 40 | 10 bags | Newly Established |
| Poultry | 2021-22 | 32 | 10-500 birds | 5,000-4,80,000/yr |
| Piggery | 2021-22 | 6 | 5+1 | 1,25,000-1,65,000/yr. |
| Vermi Compost | 2022-23 | 5 | 240 ft. | Newly Established |
| Kitchen garden | 2021-22 | 100 | 50 sqm. | 2,400-5,400/yr. |
| | 2022-23 | 50 | 50 sqm. | 1,800-3,200/Kharif |

## II. Front Line Demonstrations

| Dated | Crop/Enterprises | Area | Participants | | |
|---|---|---|---|---|---|
| | | | Male | Female | Total |
| 28-10-2021 | Improved variety of Onion NHRDF-Red-4 | 4.0 ha | 11 | 13 | 24 |
| 24-28 Oct. 2021 | Wheat Seed : DBW-303 (IIWBR) | 2.5 ha | 10 | 00 | 10 |
| 28 Oct.2021 | Bio fortified variety of Mustard (PM-30) | 8.0 ha | 12 | 08 | 20 |
| 17-11-2021 | Imporved breed of Poultry : Chabron | 3 villages | 27 | 23 | 50 |
| 15-10-2021 & 8-3-2022 | Kitchen garden | 3 villages | -- | 100 | 100 |
| | **Total** | | **60** | **144** | **204** |

## III.

## IV. Extension Activities

| Event | No. | Male | Female | Total |
|---|---|---|---|---|
| Diagnostic visits | 102 | 582 | 12 | 594 |
| Field Day | 6 | 367 | 37 | 404 |
| Group discussions | 13 | 579 | 52 | 631 |
| Kisan Ghosthi | 13 | 552 | 36 | 588 |
| Film Show | 11 | 444 | 22 | 466 |
| Self -help groups | 0 | 0 | 0 | 0 |
| Kisan Mela | 3 | 906 | 32 | 938 |
| Exhibition | 5 | 2037 | 44 | 2081 |
| Farmers' seminar/workshop | 0 | 0 | 0 | 0 |
| Method Demonstrations | 15 | 334 | 26 | 360 |
| Celebration of important days | 5 | 551 | 35 | 586 |
| Special day celebration | 7 | 983 | 52 | 1032 |
| Exposure visits | 14 | 548 | 29 | 555 |

# Photographs (SCSP Scheme)

Training : Mushroom production & management


Training : Valve addition on Cereals & Pulses

Dal Mill established under SCSP

FLD on Onion

Training : Integrated Crop Management in Onion


Nutrition security through Kitchen garden

IIWBR team visited Wheat plot under SCSP

Onion field under SCSP scheme


Pig Unit established under SCSP Scheme

Wheat field under SCSP scheme

# 4. Capacity Building of Farmers through Training Programmes on Profitable Dairying Farming and Livestock Management

| S.No | Title of the training | Date/Duration | Participants | | |
|---|---|---|---|---|---|
| | | | M | F | Total |
| 1 | Parasitic Disease Management | 19-21 Jan.2022/ 3 days | 40 | 0 | 40 |
| 2 | Feed & Fodder Management | 9-11 Feb.2022/3 days | 34 | 6 | 40 |
| 3 | Importance of Vaccination in livestock animals | 16-18 Feb.2022/3 days | 36 | 4 | 40 |
| 4 | Poultry Farming | 9-11 March, 2022 | 13 | 27 | 40 |
| **5** | Clean Milk Production & Value Addition | 14-16 March, 2022 | 23 | 17 | 40 |

**PHOTOGRAPHS**


Parasitic Disease management training under MFAHD

Importance of Feed & Fodder Management


Training : Disease Management in Dairy animals

Poultry farming

Clean Milk Production & Value addition

# 5. DAMU Project

1. Title of the Project: **GKMS-DAMU Scheme: Establishment of District Agro Met Units**
2. Sanction letter : **ATARI/KVK/IMD-DAMU/2018** Date: 20th June 2020
3. Year of start of AAS at DAMU: **2020**
4. Name and Designation of Staff

| Designation | Name | Address | Telephone no. | Email-id |
|---|---|---|---|---|
| Project Coordinator (PC) | Dr. Upasana Singh | KVK Ambala, Village: Tepla Post Office: Saha, Dist. Ambala - 133104 (Haryana) | Ph: 8295406560 | upasanasinghrathee@gmail.com |
| SMS (Agro-Meteorology ) | Post Vacant | | -- | -- |
| Agromet Observer (AO) | Ms. Vishu | | Ph: 7056033522 | vishubrar666@gmail.com |

1. Registration on Meghdoot App and Agromet-DSS portal : In Progress

2. List of farmers awareness programmes, FAS (Farmers Advisory Services)

| Sr. No. | Activities | Dated | Village/Block | No. of Farmers |
|---|---|---|---|---|
| 1. | FAS (Farmers Advisory Services) | 12.1.22 | Manglai | 14 |
| | | 20.1.22 | KVK | 25 |
| | | 12.1.22 | Phulelmajra | 06 |
| | | 18.1.22 | Phulelmajra | 12 |
| | | 12-1-22 | Sapeda | 06 |
| | | 12.1.22 | Boh | 17 |
| | | 11-1-22 | Hamidpur | 17 |
| | | 6.1.222 | Akbarpur | 12 |
| 2. | | 18.2.22 | KVK | 32 |
| | | 1.2.22 | Kukheri | 21 |
| | | 18.2.22 | Sambhalkha | 39 |
| 3. | | 30.3.22 | Dhanura | 72 |
| | | 31.3.22 | Ghasitpur | 86 |
| | | 7.3.22 | Salarehri | 55 |
| | | 16.3.22 | Ahmadpur | 12 |
| | | 23.3.22 | Phulelmajra | 18 |
| | | 23.3.22 | Sarakpur | 10 |
| | | 25.3.22 | Ahmadpur | 17 |
| | | 15.3.22 | IIWBR, Karnal | 44 |
| 4. | | 21.6.22 | KVK | 31 |
| 5. | | 23.7.22 | Akbarpur | 20 |
| | | 22.7.22 | Talrehir | 252 |
| | | 26.7.22 | Goli | 33 |
| | | 27.7.22 | Hamidpur | 18 |
| | | 27.7.22 | KVK | 30 |
| 6. | | 7-9-2022 | Samlehri | 66 |
| | | 14-9-2022 | Samlehri | 105 |
| | | 22-9-2022 | Shahzadpur | 56 |
| | | 1-9-2022 | Manglore | 57 |
| | | 1-9-2022 | Samlehri | 52 |
| | | 1-9-2022 | Ambli | 22 |
| | | 4-9-2022 | Ahmadpur | 60 |
| | | 2-9-2022 | Nanheda | 55 |
| | | 3-9-2022 | Govt. School, Samlehri | 30 |
| | | 5-9-2022 | Sadakpur | 50 |
| | | 5-12-2022 | Shahzadpur | 189 |
| | **Total** | | | **1641** |

# Photographs (DAMU Project)


DAMU meeting


Farm Advisory Services at Potato field


Farmers Awareness Programme :DAMU


Farmers Awareness Programme :DAMU


Farmers Awareness Programme :DAMU


Farmers Awareness Programme :DAMU


Farmers Awareness Programme :DAMU


Farmers Awareness Programme :DAMU


Farmers Awareness Programme :DAMU

Farmers Awareness Programme :DAMU

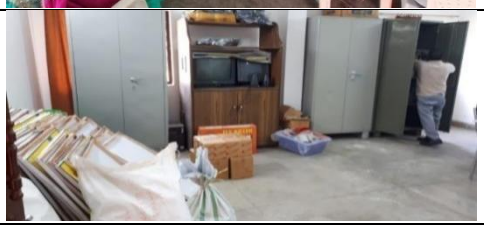
# 6. SWACHH BHARAT MISSION

## Swachhta Pakhwada (2-31 October. 2022)

| Date | Venue | Name of activities conducted | No. of participants | Photographs |
|---|---|---|---|---|
| 02.10.2022 | KVK, Ambala | Pledge & Cleanliness of KVK campus | 15 |  |
| 03.10.2022 | KVK, Ambala | Awarenss on Waste to Best - Vermi Composting under Special Swachhata Abhiyan | 32 |  |
| 04.10.2022 | Govt. School, Sambhalkha | Awareness on cleanliness on daily basis like Brushing teeth before eating , Always wash hands after using the toilets, Always wash hands before eating etc | 48 |  |
| 05.10.2022 | -- | Dussehra -- | -- | -- |
| 06.10.2022 | KVK , Ambala campus | Exosure visit at Natural Farm and Cleanliness of KVK campus , Surrounding Administrative building, Road side etc. on daily basis | 23 |  |
| 07.10.2022 | KVK Campus | Cleaning of KVK Campus | 11 |   |
| 08.10.2022 | | Sunday | | -- |
| 09.10.2022 | KVK campus | Beautification of Lawn | 5 |  |

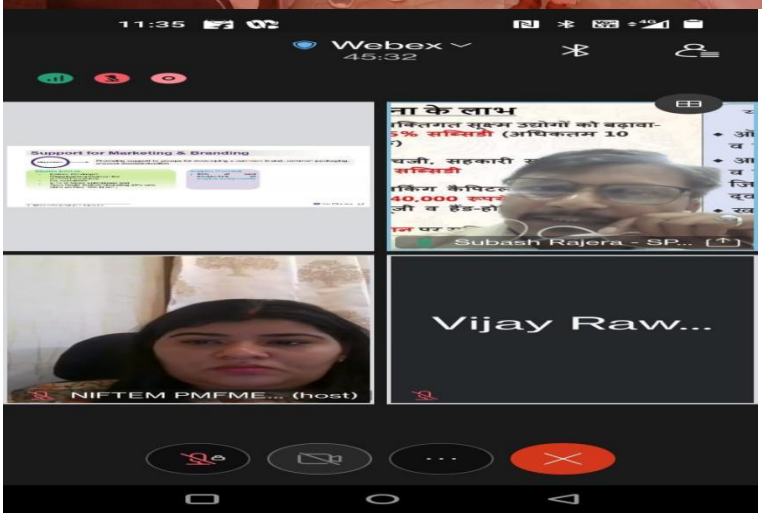
| Date | Venue | Name of activities conducted | No. of participants | Photographs |
|---|---|---|---|---|
| 10.10.2022 | KVK campus | Cleanliness surrounding KVK | 12 |  |
| 11.10.2022 | KVK campus | Cleanliness drive including cleaning of offices, corridors and premises | 12 |  |
| 12.10.2022 | Keshopur mangali | Awareness among students of Govt Schol Manglai & farmers | 88 |    |
| 13.10.2022 | KVK demonstration Unit | Daily cleanliness at Dairy Demonstration unit | 3 |  |
| 14.10.2022 | KVK campus | Cleaning of Demonstration units (Goatary, Dairy, Piggery & Poultry) | 11 |   |
| 15.10.2022 | KVK Campus | Waste Management at household level i.e. Segregation of household waste & establishment of vermi compost unit,Use of sanitary Latrines, Preparation of Bio Gas Plant, Use of Smokeless chullahas & solar | 140 |  |

| Date | Venue | Name of activities conducted | No. of participants | Photographs |
|---|---|---|---|---|
| | | cookers & Establishment of Kitchen garden | | |
| 16.10.2022 | KVK Campus | Cleaning and beautification of surrounding areas : · Hedge & edge cutting, Plantation, Cutting of Flower & Ornamental plants, Maintenance of Flower pots, Weed Management, Cleaning of Road side etc. | 7 |   |
| 17.10.2022 | IARI & KVK campus | PM Kisan Samman Sammelan | 288 |   |
| 18.10.2022 | KVK campus | Cleaning of offices and campus and disposal of scraps, space freed, etc. | 6 |  |
| 19.10.2022 | KVK | Integrated Disease Management in Potato | 19 |  |
| 20.10.2022 | KVK Campus | Integrated Nutrient Management in Potato | 18 |  |

| Date | Venue | Name of activities conducted | No. of participants | Photographs |
|---|---|---|---|---|
| 21.10.2022 | | Slogan competition on Swacchta | 14 |  |
| 22.10.2022 | KVK Campus | Whitewash and Cleaning of Offices | 10 |  |
| 23.10.2022 | -- | Diwali | -- | -- |
| 24.10.2022 | -- | -- | -- | -- |
| 25.10.2022 & 26 Oct. 2022 | Phulelmajra, Samlehri & Rolon | Interaction with Dairy farm women on Cleaning of Cattle Shed & Management | 40 |  |
| 27.10.2022 | KVK Campus and Village Rollon | Cleaning of KVK Campus and Awareness on Crop Residue Management | 80 |  |
| 28.10.2022 | KVK | Awareness on Crop Residue Management | 20 |  |
| 29.10.2022 | Samlehri | Awareness on crop residue Management | 10 |  |
| 30.10.2022 | KVK Campus | Lecture delivefed on how to use fungicide in Potato crop | 15 |  |
| 31.10.22 | KVK campus | Awareness about bio fortified varieties of Wheat (DBW-187, DBW-222 & DBW-303) | 20 |  |

# 7. Farmer Producer Organization

| Sl. No | Name of FPO | Date of FPO Registration | Farmer members | Whether Bank account opened | Name of Primary Commodity approved by D-MC | Name of Secondary Commodity approved by D-MC | Equity Amount (in Rs.) |
|---|---|---|---|---|---|---|---|
| **1** | The Raghuram Agro Farmer Producers Multipurpose Cooperative Society Ltd., Dukheri<br>Block : Ambala-I | 24.01.2022 | 300 | Yes | Mustard | Potato | 600000 |
| **2** | The Agriterrene Farmers Producers Multipurpose Cooperative Society Ltd. Shahzadpur<br>Block : Shahzadpur | 04.02.2022 | 263 | Yes | Onion | Sunflower | 600000 |




# NEWS

पंजाब केसरी THU,15 DECEMBER 2022
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अम्बाला केसरी

## फसलों पर स्प्रे करेगा के.वी.के. का ड्रोन

### कृषि विज्ञान केंद्र द्वारा किसानों के उत्थान के लिए उठाए जा रहे प्रभावी कदम : अखिल बख्शी

अखिल बख्शी को सम्मानित करते राष्ट्रीय पंजाबी महासभा के राष्ट्रीय महासचिव सुरेंद्र जुनेजा और प्रदेश महासचिव चौ. राकेश भल्ला।

अम्बाला, 14 दिसम्बर (बलराम) : सोसायटी फॉर क्रिएशन ऑफ हैवन ऑन अर्थ के अध्यक्ष अखिल बख्शी का कहना है कि उनकी सोसायटी द्वारा अम्बाला जिले के तेपला में संचालित कृषि विज्ञान केंद्र (के.वी.के.) का उद्देश्य किसानों एवं पशुपालकों को अत्याधुनिक तकनीक एवं सुविधाएं उपलब्ध करवाकर उनकी उत्पादन क्षमता को बढ़ाना और उनके उत्थान के लिए प्रभावी कदम उठाना है।

इसी कड़ी में के.वी.के. द्वारा ड्रोन स्प्रेयर की योजना बनाई गई है और आवश्यक प्रक्रिया पूरी होते ही यह ड्रोन क्षेत्र के किसानों की फसलों पर कीटनाशकों का छिड़काव (स्प्रे) करेगा। इससे न केवल समय की बचत होगी और कीटनाशक कम लगेगा, बल्कि कीटनाशकों के छिड़काव के दौरान स्वास्थ्य पर पड़ने वाले दुष्प्रभाव से भी बचा जा सकेगा।

'पंजाब केसरी' के साथ विशेष बातचीत के दौरान अखिल बख्शी ने कहा कि ड्रोन खरीद की प्रक्रिया अंतिम दौर में है। इसके साथ ही ड्रोन का संचालन करनेवाले 'पायलट' का चाकाचक्य प्रशिक्षण करवाकर लाइसेंस हासिल किया जाएगा।

केंद्रीय कृषि एवं किसान कल्याण मंत्रालय द्वारा देशभर में प्रयुक्त होने वाले कृषि कार्य संबंधी ड्रोन के संचालन के लिए स्टैंडर्ड ऑपिटिंग प्रोसिजर (एस.ओ.पी.) बनाई गई है जिसमें हर आवश्यक पहलू का ध्यान रखा गया है।

अखिल बख्शी ने बताया कि यह ड्रोन हैक्सा कॉप्टर होगा, जिसकी टैंक क्षमता 10 लीटर है और यह 25 किलोग्राम वजन उठा सकता है। वैसे तो यह ड्रोन 10 मीटर प्रति सैकेंड की गति से 30 मीटर की ऊंचाई तक उड़ान भर सकता है, लेकिन ड्रोन के संचालन को लेकर डी.जी.सी.ए. (नागरिक उड्डयन महानिदेशक) की 9 मीटर ऊंचाई समेत कुछ नियम एवं शर्तें हैं जिनका पूरा पालन किया जाएगा।

बख्शी ने बताया कि कृषि विज्ञान केंद्र में वैज्ञानिकों द्वारा विभिन्न फसलों के उन्नत बीज तैयार करके किसानों को दिए जाते हैं। इसके अलावा फसलों से संबंधित हर गतिविधि में कृषि वैज्ञानिक किसानों का मार्गदर्शन करते हैं।

अम्बाला पहुंचने पर राष्ट्रीय पंजाबी महासभा के राष्ट्रीय महासचिव सुरेंद्र जुनेजा और प्रदेश महासचिव चौ. राकेश भल्ला ने अखिल बख्शी को सम्मानित किया। महासभा के राष्ट्रीय अध्यक्ष अशोक मेहता ने अम्बाला में ड्रोन सुविधा शुरू करने की पहल का स्वागत करते हुए कहा कि इससे किसानों को बहुत लाभ होगा जिसके लिए अखिल बख्शी बधाई के पात्र हैं।

## 2 एफ.पी.ओ. पंजीकृत करवाए, सरसों के उत्पादन, प्रोसैसिंग और मार्कीटिंग पर जोर

पशुपालक बलजिंद्र सिंह को प्रोत्साहित करते गांव खेड़ा पहुंच सोसायटी फॉर क्रिएशन ऑफ हैवन ऑन अर्थ के अध्यक्ष अखिल बख्शी।

अखिल बख्शी ने बताया कि कृषि विज्ञान केंद्र, तेपला द्वारा क्षेत्र के 300-300 किसानों पर आधारित 2 एफ.पी.ओ. (फार्मर प्रोड्यूसर ऑर्गेनाइजेशन) पंजीकृत करवाए गए हैं। वे लोग 2-2 हजार रुपए इकट्ठे करके 6 लाख रुपए जमा करेंगे और नैशनल को-ऑपरेटिव डैवल्पमैंट कारपोरेशन द्वारा उन्हें 6 लाख रुपए की मैचिंग ग्रांट दी जाएगी। एक एफ.पी.ओ. के लिए तो यह ग्रांट मंजूर भी हो चुकी है।

इस कड़ी में हर जिले में एक फसल के विस्तार पर जोर देने का प्रावधान है और अम्बाला जिले के लिए सरसों की फसल का निर्धारण किया गया है। अम्बाला में गठित एफ.पी.ओ. फूड प्रोसैसिंग यूनिट लगाकर रहे हैं जिसके लिए मशीनरी की खरीद की जा रही है।

बख्शी ने बताया कि एफ.पी.ओ. से जुड़े किसान अब न केवल सरसों का उत्पादन करेंगे, बल्कि फूड प्रोसैसिंग यूनिट लगाकर तेल की मार्कीटिंग भी करेंगे। इस पूरी प्रक्रिया में कृषि विज्ञान केंद्र किसानों का मार्गदर्शन करता रहेगा। इन एफ.पी.ओ. को ए.जी.एम. और चुनाव प्रक्रिया भी केंद्र की देखरेख में होगी।

### प्रगतिशील पशुपालक के घर जाकर किया प्रोत्साहित

अखिल बख्शी ने बताया कि कृषि विज्ञान केंद्र के वैज्ञानिक न केवल किसानों को नई-नई तकनीकों के प्रति जागरूक करके उनका उत्पादन बढ़ाने में मदद करते हैं, बल्कि प्रगतिशील किसानों एवं पशुपालकों को प्रोत्साहित भी करते हैं।

इसी कड़ी में उन्होंने बुधवार को कृषि विज्ञान केंद्र के वैज्ञानिकों के साथ गांव खेड़ा का दौरा कर पशुपालक बलजिंद्र सिंह को प्रोत्साहित किया। बलजिंद्र सिंह ने बताया कि वह पुरानी पद्धति से गाय के दूध का पी.पी. तैयार करके हमें 2000 रुपए प्रति लीटर के हिसाब से बेच रहा है। उन्होंने अन्य पशुपालकों को भी पुरानी पद्धति से घी तैयार करने की सलाह दी।

## कृषि विज्ञान केन्द्र तेपला अंबाला ने मनाया अंतर्राष्ट्रीय महिला दिवस

अंबाला कवरेज@ अंबाला। कृषि विज्ञान केन्द्र, तेपला-अंबाला में अंतर्राष्ट्रीय महिलादिवस धूम-धाम से मनाया गया। कार्यक्रम के आरम्भ में डा.उपासना सिंह वरिष्ठ वैज्ञानिक एवं प्रधान ने महिलाओं का स्वागत करते हुए बताया इस दिन को मनाये जाने के पीछे महिलाओं को वह सम्मान देना है जिसकी वह हकदार है। उन्होंने बताया कि पहली मार्च से ही केविके द्वारा प्रशिक्षण कार्यक्रम,गृह-वाटिका स्थापित करना, प्रदर्शनी इत्यादि कार्यक्रम चलाये जा रहे हैं। भारत में महिलाओं के लिए लिए अलग कानूनी अधिकार बनाये हुए हैं लेकिन हर महिला को इसके बारे में जानकारी नहीं है। जैसे समान वेतन का कानूनी अधिकार, मातृत्तव संबंधी अधिकार, काम पर हुए उत्पीडन के खिलाफ अधिकार,रात में गिरफ्तार न होने का अधिकार, घरेलू हिंसा से सुरक्षा इत्यादि। उन्होंने महिलाओं की सुरक्षा हेतु दुर्गा शक्ति एप की भी जानकारी दी। डा. सिंह ने कहा कि आज हर क्षेत्र में महिलाएं पुरूषों के बराबर कार्य कर रही है,फिर चाहे आई टी क्षेत्र हो या कृषि। उन्होंने परिवार को जंक फूड खिलाने से परहेज एव विभिन्न अनाजों से मिलकर बने उत्पादों का सेवन करने पर जोर दिया। कार्यक्रम संचालक काजल, कार्यक्रम सहायक (गृह विज्ञान) ने देश विदेश की सफल महिलाओं के उदाहरण प्रस्तुत किये साथ ही केविके से जुडी एवं जागरूक महिलाओं के बारे में भी प्रस्तुतीकरण किया। कार्यक्रम में महिला एवं बाल विकास विभाग की सुपरवाईजर नीरू शर्मा ने शिरकत की और हरियाणा सरकार द्वारा चलायी जा रही विभिन्न योजनाओं के बारे में विस्तार से जानकारी दी। डा. रमेश कुमार, कृषि प्रसार विशेषज्ञ ने किसान उत्पादक संगठन के बारे में विस्तार से जानकारी दी। टैफे कम्पनी के फील्ड आफिसर के अजीत सिंह ने अपनी कम्पनी के बारे में बताया। उन्होंने सभी महिलाओं को स्मृति चिन्ह देकर सम्मानित किया।

## उपभोक्ता तक प्राकृतिक खेती पहुंचाने की जानकारी दी


कृषि विज्ञान केंद्र अंबाला एवं मेरा फार्म हाउस संगठन कार्यक्रम में मौजूद किसान व अन्य।

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अंबाला सिटी। कृषि विज्ञान केंद्र अंबाला एवं मेरा फार्म हाउस संगठन ने मिलकर ऑर्गेनिक उत्पादक एवं उपभोक्ता की बैठक का आयोजन किया। डॉ. उपासना सिंह वरिष्ठ वैज्ञानिक एवं प्रमुख कृषि विज्ञान केंद्र अंबाला के निर्देशन में यह बैठक हुई।

भारत सरकार के द्वारा चलाए जा रहे कार्यक्रम प्राकृतिक खेती के अंतर्गत खेती कर रहे किसानों को उपभोक्ता तक किस तरह पहुंचाया जाए, इसके बारे में जानकारी दी। प्राकृतिक खेती के नोडल अधिकारी डॉ. राजेंद्र सिंह एवं मेरा फार्म हाउस के अध्यक्ष निखिल गर्ग ने भविष्य में किसानों के साथ समन्वय बनाकर काम करने का आह्वान किया। इस कार्यक्रम में लगभग 25 किसानों ने भाग लिया जोकि ऑर्गेनिक खेती कर रहे हैं। कार्यक्रम में अशोक चौहान, डॉ. राकेश शर्मा, विकास, जसवीर सिंह, रुलदा सिंह, प्रदुमन सिंह, भूपेंद्र राणा ऑर्गेनिक किसानों ने भाग लिया।

## मुर्गी पालन विषय पर 3 दिवसीय प्रशिक्षण का हुआ समापन


स्मरण पत्र ( साहा जयबीर राणा थंबड़ ))। मत्स्य पालन, पशुपालन एवं डेयरी मंत्रालय , भारत सरकार द्वारा प्रायोजित प्रोजेक्ट ''लाभकारी डेयरी फार्मिंग एवं पशु पालन प्रबन्धन हेतु प्रशिक्षण कार्यक्रमों के माध्यम से किसानों की क्षमता संवर्धन'' के अंतर्गत आयोजित किए जा रहे 3-3 दिवसीय प्रशिक्षण कार्यक्रम कृषि विज्ञान केन्द्र, तेपला अम्बाला के तत्वाधान में मत्स्य पालन, पशुपालन एवं डेयरी मंत्रालय , भारत सरकार द्वारा प्रायोजित ''लाभकारी डेयरी फार्मिंग एवं पशु पालन प्रबन्धन हेतु प्रशिक्षण कार्यक्रमों के माध्यम से किसानों की क्षमता संवर्धन'' परियोजना के अंतर्गत 'मुर्गी पालन ' विषय पर 3 दिवसीय कार्यक्रम 9 से 11 मार्च, 2022 तक आयोजित किया गया। जिसका समापन आज केविके के सभागार में डा. उपासना सिंह, केन्द्र की वरिष्ठ वैज्ञानिक एवं प्रधान डॉ. श्रुखलांबद्ध क्रमानुसार 3-3 दिवसीय प्रशिक्षण कार्यक्रमों का अध्यक्षता में किया गया। जानकारी देते हुए प्रोजेक्ट के प्रभारी केन्द्र के वैज्ञानिक एवं पशुपालन विशेषज्ञ डॉ. नवीन सैनी ने जानकारी देते हुए बताया कि भारत सरकार द्वारा किसानों की आय दोगुना करने की योजना के तहत भाकृअनुप - अटारी, जोधपुर के दिशा-निर्देश एवं केन्द्र की वरिष्ठ वैज्ञानिक एवं प्रधान डॉ. उपासना सिंह के नेतृत्व में केन्द्र द्वारा किया गया। जिसमें मुर्गीयों की नस्ल, रख-रखाव एवं खान-पान विषय पर जानकारी दी गयी। कोविड़ के मद्देनजर मास्क लगाना, प्रशिक्षण कैम्पस को साफ रखना एवं सैनेटाईजर इत्यादि का उचित प्रयोग किया गया। प्रशिक्षण के दौरान डा. सैनी ने बताया कि आगे भी एक प्रशिक्षण मार्च, 2022 तक सम्पन्न किये जाना हैं, इच्छुक पशुपालक अपना पंजीकरण करवा सकते हैं। इस प्रशिक्षण में 40 प्रतिभागी रहे। प्रशिक्षण के दौरान आमें एंड हैमेर कम्पनी से डा अजय एवं डा. कम्बोज ,केन्द्र के कृषि प्रसार विशेषज्ञ डा. रमेश कुमार जी , डा. विक्रम धीरेन्द्र सिंह, विषय विशेषज्ञ पौध संरक्षक एवं श्री मती काजल , कार्यक्रम समन्वयक गृह विज्ञान , श्री धीरेन्द्र सिंह आर्या प्रोजेक्ट, सुश्री विशु , दामू प्रोजेक्ट भी उपस्थित रहे।

## कृषि विज्ञान केन्द्र तेपला अंबाला में प्राकृतिक खेती पर किसान मेले का आयोजन

अंबाला कवरेज@ अंबाला। कृषि विज्ञान केन्द्र, तेपला अंबाला में प्राकृतिक खेती विषय पर किसान मेले का आयोजन किया गया। जिसका शुभारम्भ डा. एएम नरूला, पूर्व निदेशक अटारी-जोन-प लुधियाना के कर-कमलों से हुआ। गांव खुडडा, चुडियाला, हमीदपुर, सपेडा, दुबडी,केशोपुर, मंगलई, पिलखनी, नन्हेला, अकबरपुर, बिहटा, रछेडी, खुडी, धन्नीडा, रतनहेडी, तेपला, उगला, घेलडी आदि के सरपंचों ने मुख्य अतिथि एवं विशिष्ट अतिथि का स्वागत किया। इस मेले में अम्बाला जिले के लगभग 387 किसानों, महिलाओं, महर्षि मार्कंडेय विश्वविद्यालय एवं अंबाला इंजीनियरिंग कॉलेज, मिज़पुर, के विद्यार्थियों ने भाग लिया। कार्यक्रम में मुख्य अतिथि का स्वागत करते हुए डा.उपासना सिंह ने बताया कि अटारी, जोधपुर के मार्गदर्शन में केविके द्वारा प्राकृतिक बढ़ावा देने हेतु प्रदर्शन जागरूकता क्रार्यक्रम, किसान मेला, प्रदर्शनी, प्रक्षाशन का आयोजन किया जा रहा है। आज आजादी का अमृत महोत्सव के अर्न्तगत किसान भागीदारी प्राथमिकता हमारी के अर्न्तगत प्राकृतिक खेती पर किसान मेले का आयोजन किया जा रहा है। मुख्यातिथि डा. एएम नरूला, पूर्व निदेशक अटारी-जोन-प लुधियाना ने विभिन्न विभागों/कम्पनियों द्वारा लगाई गई प्रदर्शनी का अवलोकन किया और मेले के आयोजन पर केविके टीम को बधाई दी एवं अपने अभिभाषण में नैति आयोग द्वारा चल रही इस मुहिम प्राकृतिक खेती अपनाकर जहर मुक्त अन्न स्वयं खाने और देश का खिलाने के लिए आहवान किया। मेले में विशिष्ट अतिथि के रूप में पधारे शाहबाद मारकण्डा, गऊशाला के आचार्य वेदव्रत, श्रुति विज्ञान आवासकुलम, छमरा रने गाव पालने एवं गाव के दूध के साथ साथ गोबर और गोमूत्र को नियमित सेवन करके स्वास्थ्य / जीवन बचाने की बात कही। उन्होंने अपील की कि अधिक दूध उत्पादन न सोचकर अच्छा स्वास्थ्य की सोचें और रोगमुक्त जीवन जीने की राह पकडे। प्राकृतिक खेती के नोडल अधिकारी एवं कृषि विशेषज्ञ डा. राजेन्द्र कुमार सिंह ने प्राकृतिक खेती के फायदे के बारे में जानकारी दी । डा. बलजिन्द्र सिंह , एस डी ओ, कृषि विभाग ने कारटम हारवेस्ट सैन्टर, धान की सीधी बिजाई पर सबसिडी एवं अन्य कृषि विभाग की योजनाओं को किसानों के सामने रखा। ईजी पवन कुमार, सहायक कृषि अभियंता, कृषि विभाग ने किसानों को मशीनें खरीदने के लिए अग्लहेन रजिस्ट्रेशन करवाने के लिए आग्रह किया।कृषि विज्ञान केन्द्र, अम्बाला शहर के बागवानी वैज्ञानिक डा. देवेन्द्र चहल, बागवानी विभाग से सीएच मल्होत्रा, उद्यान बागवानी सलाहकार, महर्षि मार्कंण्डय विश्वविद्यालय के बागवानी प्रोफसर डा. एसके रंगा, बलवीर सिंह, कृषि विभाग ने विशेष तौर पर मेले में शिरकत की। डा. राकेश भारद्वाज ने प्राकृतिक खेती से स्वास्थ्य पर प्रभाव पर प्रकाश डाला वहीं गांव केसरी के सरदार जगजीत सिंह एवं मास्टर लाल चन्द भारद्वाज, चुडियाली ने अपना अनुभव शेयर किये । इस मेले में कृषि अभियांत्रिकी विभाग, कृषि मशीनरी, ट्रैक्टर एवं कृषिगत बहु-आयामी तकनीकों के 10 स्टाल लगायें गये जिसमें केविके तेपला, इफको, शलिन्द्र प्रताप सिंह की वाटिका नर्सरी,युवा उद्यमी गुरमीत सिंह की ऐमिको केचुआ खाद उत्पादक यूनिट, अबरोड एसप्रिंटस, अम्बाला, शिल्पा एग्रो, ब्रूकी इण्डिया, सॉयल टैस्टिंग लैब, अम्बाला, विहान मशरूम प्लान्ट, श्री मकेण्डय नर्सरी, हरित आर्गेनिक इत्यादि प्रमुख थे। डा.रमेश कुमार, डा. विक्रम सिंह, डा. अमित कुमार, अभय कुमार, काजल, विशु, योगेश, चरनजीत के सहयोग से यह किसान मेला सफलतापूर्वक समाप्त हुआ। अन्त में डा. राजेन्द्र सिंह ने सभी अतिथियों एवं किसान भाईयों एवं महिलाओं का आभार व्यक्त किया।

## किसानों को दी फसलों की बीमारियों, कीटों की जानकारी

संवाद न्यूज एजेंसी


प्रशिक्षण के दौरान किसानों को सरसों की फसल के बारे में जानकारी देते वैज्ञानिक। संवाद

साहा। कृषि विज्ञान केंद्र तेपला में सरसों फसल प्रक्षेत्र दिवस पर गांव दुखेड़ी में कार्यक्रम का आयोजन किया गया। इसमें सरसों की फसल उगाने और उसकी उपयोगिता के बारे में जानकारी दी गई। प्रसार वैज्ञानिक डॉ. रमेश ने भारत सरकार के द्वारा चलाई जा रही समूह आधा पंक्ति प्रदर्शन के बारे में किसानों को बताया। पीथ संरक्षण वैज्ञानिक डॉ. विक्रम वीरेंद्र सिंह ने फसलों पर पड़ रही बीमारियों एवं कीट पतंगों के बारे में किसानों को अवगत कराया।

मुख्य रूप से किसानों को फसल में दवाई डालने के बारे में जानकारी दीं। डॉ. सिंह ने बताया सरसों के पत्ते पर सफेद रंग के छल्ले नुमा दाग बनते ही कॉपर ऑक्सिक्लोराइड का दो ग्राम पर लीटर के अनुसार फसल पर छिड़काव करें। पंजाब नेशनल बैंक से कृषि अधिकारी संदीप ने प्रधानमंत्री फसल बीमा योजना के बारे में एवं बैंक की तरफ से उपलब्ध कराई जा रही सभी स्कीमों के बारे में जानकारी दी। इस तरह से सहजता से किसान बैंक से लोन प्राप्त कर सकें इसके बारे में पूरी जानकारी दी।

भारतीय मौसम विज्ञान विभाग की तरफ से कृषि विज्ञान केंद्र में कार्यरत विशु ने मेघदूत एवं दामिनी एप से मौसम के बारे में किस तरह जानकारी प्राप्त होती है इसके बारे में भी जानकारी दी गई। नोडल अधिकारी डॉ. राजेंद्र सिंह ने फसल किस्म के बारे में विस्तृत जानकारी दी एवं हाइब्रिड किस्मों की तुलना में अच्छा बताया। उन्होंने बताया कि जिस तरह से बे समय बारिश एवं तापमान में उतार-चढ़ाव हो रहा है।

कार्यक्रम में इफको जिला प्रबंधक प्रवीण कुमार जैविक खाद के बारे में एवं नैनो खाद के बारे में प्रकाश डाला। मुख्य रूप से सरसों फसल में सल्फर की उपयोगिता पर जोर दिया। कृषि विज्ञान केंद्र तेपला में कार्यरत काजल ने आज के समय में बाजारों में उपलब्ध मिश्रित खाद्य तेलों के प्रति जागरूक किया एवं घर के सरसों से तैयार तेल के उपयोग पर जागरूक किया।