



# GURBACHAN SINGH FOUNDATION

For  
Research, Education and Development

## ANNUAL PROGRESS REPORT 2025-26



## From Chairman's Desk

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Gurbachan Singh Foundation for Research, Education and Development (GSFRED) was established in 2017 with the mission for skill and entrepreneurship development in unemployed rural youth, farmers and students and also to link farmers and other stake holders with latest agricultural innovations and technologies at the grass root level. The foundation has completed about 8 years in November, 2025. The innovative technologies developed in its brief history of 8 years included: (i) a farming system model for doubling farmers income; (ii) raised bed furrow irrigation technique for saving about 20% irrigation water; (iii) crop diversification options from rice-wheat to soybean, maize, green gram, black gram, mustard and gram; (iv) fruit trees based agroforestry systems to sequester carbon at the farm level and enhancing farmers income; (v) organic / natural farming techniques for production of safe food ; (vi) production of quality seed and saplings of crops, fruits, aromatic and medicinal plants. This information was shared with farmers, students and other stake holders by organising two kisan vigyan melas each year; workshops, brain storming sessions, scientists-farmers-students-industry interactions and live visits to GSFRED research centre.

The present report covers various research, education and development activities covered between February 2025 and February 2026. Two kisan vigyan melas were organised on March 3, 2025 and October 11, 2025. A one day seminar on climate smart agriculture for farmers welfare and safe environment was organised in collaboration with Kisan Chamber of Commerce on August 10, 2025. A state level workshop on promotion of agri-entrepreneurship was organised in collaboration with Kisan Kalyan Pradhikaran, Govt. of Haryana on September 26, 2025. The chairman was invited by prominent research institutes to deliver foundation day

lecture and for inauguration of national / international conferences / workshops / meetings. Notable institutes / organisations visited included: Central Coastal Agricultural Research Institute, Goa; National Academy of Agricultural Research Management (NAARM), Hyderabad; Climate Smart Agriculture Meeting in Colombo, Sri Lanka; ICID World Irrigation Forum meeting in Kuala Lumpur, Malaysia and Global Agrovet Research Conference (GARCX) in Dubai. The Chairman, GSFRED was honoured with Eminent Sikh Award of Haryana and Life Time Achievement Award by Indian Society of Agroforestry. About 5000 farmers, students, stakeholders and civil society representatives visited the research centre during this period.

  
(Gurbachan Singh)



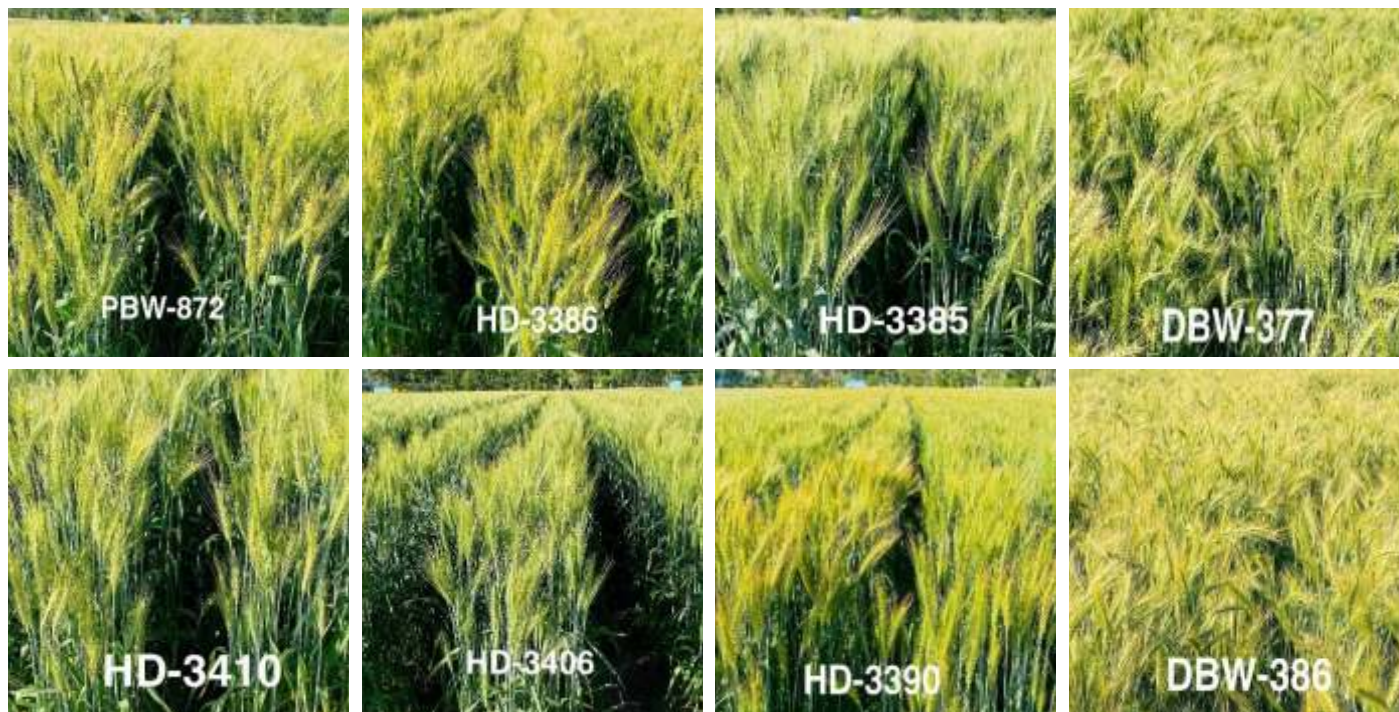
# 1. Research Highlights

## 1.1 Location specific evaluation of promising wheat varieties for their resilience to climate change

A long term field experiment is in progress since 2018 to evaluate promising new rice and wheat varieties developed by NARS for their response to location specific weather parameters. The relative yield obtained from different varieties is reported in Table 1. Maximum yield was obtained from PBW-872 variety developed by PAU, Ludhiana closely followed by DBW 327 variety developed by IIWBR, Karnal.

Table 1: Relative yield of different wheat varieties at GSF research farm

Varieties	Yield at GSF farm (q/ha)	Varieties	Yield at GSF farm (q/ha)
PBW-872	72.6	DBW-386	70.5
DBW-327	71.9	HD-3410	69.2
DBW-377	71.8	HD-3406	67.8
HD-3385	71.7	HD-3390	64.8
HD-3386	71.3	RS-1	55.0



Dr. Ratan Tiwari, Director and Dr. Amit Sharma, Senior Plant Breeder, Indian Institute of Wheat and Barley Research inspected the performance of all new varieties of wheat DBW-377, DBW-386, PBW-872, RS-1, HD-3385, HD-3386, HD-3390, HD-3406 and HD-3410, developed by National Agriculture Research System and demonstrated at the research farm. The performance of different varieties was judged based upon

condition of flag leaf, ear length and its compactness, number of spikelets per ear, grain development, incidence of diseases and pattern of ear development on the same plant etc. It was astonishing to see ear formation in DBW 386 variety in three layers (lower, middle and upper) on the same stem. This variety can be exploited for better interception of photo-synthetically active radiation and higher yield.





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#### 1.2 Comparative performance of new rice varieties developed by NARS at GSF research farm

Sixteen varieties of rice (Table 2) developed by NARS were grown at GSF research farm for their location specific performance in light of weather conditions during the growing season. Amongst PR varieties, maximum yield was obtained

**Table 2: Relative performance of new basmati and non-basmati varieties during kharif, 2025**

Variety	Date of sowing	Date of harvesting	Grain yield (qt/acre)
PR-131	12 July, 2025	26 October, 2025	31.6
PR-132	12 July, 2025	18 October, 2025	30.8
PR-114	12 July, 2025	24 October, 2025	30.3
PR-126	31 July, 2025	31 October, 2025	30.2
S-110	12 July, 2025	25 October, 2025	31.5
P-2090	13 July, 2025	28 October, 2025	33.4
CSR-101	11 July, 2025	27 October, 2025	32.0
PB-1692	28 July, 2025	28 October, 2025	22.0
PB-1847	28 July, 2025	28 October, 2025	23.1
PB-1979	28 July, 2025	31 October, 2025	17.8
PB-1886	29 July, 2025	31 October, 2025	22.4
PB-1401	31 July, 2025	01 November, 2025	20.0
PB-1718	14 July, 2025	08 November, 2025	23.3
CSR-30	13 July, 2025	10 November, 2025	18.0
PB-1509	31 July, 2025	15 October, 2025	22.4
PB-1985	28 July, 2025	16 October, 2025	20.2

from PR-2090 variety developed by IARI, New Delhi followed closely by CSR-101 variety developed by CSSRI Karnal. These varieties have the potential to substitute Pusa-44 variety, which is of long duration and consumes more water. Amongst the basmati varieties, PB-1718 closely followed by PB-1509 performed better than other varieties.



#### 1.3 Evaluation of different rice varieties at the nursery stage

Seventeen rice varieties namely PB-1509, PB-1847, PB-1692, PB-1885, PB-1401, PB-1886, PB-1979, PB-1985, PB-1718, CSR-30 of basmati and PR-114, PR-126, PR-131, PR-132, P-2090, S-110 and CSR-101 of non-basmati were planted in strips to judge their performance in terms of growth, vigor, shortness and appearance of pests including diseases. All the varieties performed exceedingly well and become ready for transplanting between 28 to 33 days. To raise most of the varieties, seed produced, processed and packaged at GSFRED was used for raising nursery. Large number of farmers

including small and marginal farmers purchased this nursery at a nominal price for planting in their fields.





#### 1.4 Location specific evaluation of wheat lines supplied by Borlaug Institute for South Asia (BISA)

The Borlaug Institute of South Asia (BISA), Ludhiana supplies promising wheat lines to select research centres in the country for location specific testing and selecting promising ones. We received small quantity seed of about 100 lines during 2023 for performance evaluation at GSF research farm, Karnal. These seeds were grown during rabi 2023-24 (November to April). Based upon bundle weight, grain weight, 100 grain weight, colour and lustre; 20 most promising lines were identified / selected. The selected lines were grown during 2024-25 season for evaluation

and multiplication of seed. Most of the selected lines seem to have the yield potential of 32q/ acre and more.



Out of 20 promising wheat lines 14 top ones were planted in bigger plots during rabi 2025-26.

#### 1.5 In-situ rice straw management strategy to save water and check air pollution

Paddy straw after harvest is burnt by the farmers on a large scale to get their fields vacated for timely sowing of next crop. Large scale burning causes environment pollution and air quality deterioration. Experiments initiated at GSF research farm during 2018 were continued during 2025-26 crop growing season for using rice straw as mulch in furrows and

planting wheat on raised bunds. As in previous years, planting wheat on bunds and placing rice residue as mulch in furrows resulted in saving of irrigation water by more than 20 percent, controlled weeds, conserved excess rain water in-situ, ensured minimum adverse impact on wheat due to submergence and lodging and better microclimate for microbes to flourish.





### 1.6 Natural and organic farming experiments

To create awareness about safe food and to reduce excessive use of chemicals in agriculture; research efforts are in progress to standardize natural and organic farming technology for growing high value food crops. During the year, a medicinal crop (turmeric) was grown in association with fruit trees without application of agro - chemicals. Sugarcane variety CO-15023, having high sugar content, was also grown without the application of pesticides. Sugarcane jaggery (Gur), jaggery powder (Shakker) got prepared at sugarcane crusher (Kohlu) near Shambli town in UP. No chemicals were added during conversion of sugarcane juice to jaggery. Similarly, turmeric was processed at the farm itself. Whole nutrition requirement of both crops was met through the application of large quantity of compost generated at the farm itself



*Processing of turmeric at the Farm*



*Processing of sugarcane for preparing jaggery*

### 1.7 Seed production, processing and packaging

The good quality seed of new crops is processed and packaged at the seed processing plant established at the research centre. The seed of high yielding climate resilient varieties is packed in small quantity (10 to 20kg) and given to the farmers for further multiplication in their villages.



### 1.8 Integrated farming system model : a climate smart food system

The integrated farming system model for 2 acre land holding initiated in 2018 was continued. The seven years results showed that farmers income can be raised 2 to 3 times by integrating crops, horticulture, livestock, fisheries and other allied sectors. By multiple use of resources, the cost of cultivation is reduced by 70 to 80%. Multienterprize agriculture is a practical way to promote natural farming



### 1.9 Year round production of quality fruits

More than two dozen high quality fruits are grown along boundary of GSF experimental farm and also as fruit trees based agroforestry system. These fruits are grown without or little use of agro-chemicals. These also serve as mother plants to get scion wood for grafting. A recent picture of fruits harvested or in harvesting stage is shown below. The good quality saplings of these plants are also distributed to farmers.



## 2. Scientific Meetings / Seminars / Workshops

### 2.1 New Year celebration of NAAS Regional Chapter, Karnal

A meeting of the Regional Chapter, Karnal of National Academy of Agricultural Sciences (NAAS), New Delhi, was held at GSFRED Research Centre, Karnal on January 13, 2026. The agenda of the meeting was to have a New Year get-together of Karnal based fellows and associates of the academy and also a lecture by Dr. Arjava Sharma, fellow of NAAS and Former Director, ICAR-NBAGR, Karnal on the topic "Milk: White Gold of India". In his presentation, Dr. Sharma covered historical perspective of milk at national and international level, production and per capita availability of milk, nutritional quality of milk and human health, artificial and adulterated milk and quality testing; challenges and issues related to animal health and milk in the near future etc. The speech was very comprehensive and appreciated by all the participants. The prominent fellows who participated in the meetings

included Drs. M.L. Madan, B. Prakash, Arjava Sharma, Y.S. Rajput, Sunita Grover, Gurbachan Singh and P.C. Sharma. After the thought provoking lecture, The Holy Festival was celebrated in the open with relevant music and songs by the participants. The Convener of the Karnal Chapter Dr. Gurbachan Singh welcomed all fellows and their families and Dr. P.C. Sharma proposed a formal vote of thanks.





### 2.2 Seminar on climate smart agriculture practices for farmers welfare and safe environment

A one day seminar on climate smart agriculture practices for farmers welfare and safe environment was organised at GSFRED in collaboration with Kisan Chamber of Commerce on August 10, 2025. About 35 Eminent Scientists, Experts and Progressive Farmers participated in this seminar. The prominent delegates included Dr. R.S Ghuman, Eminent Economist and Member Honourable Supreme Court constituted committee on farmers issues, Dr. Samar Singh, Former Vice Chancellor, Maharana Pratap University of Horticulture and Technology, Karnal; Dr. P.C. Sharma, Former Director, ICAR-CSSRI, Karnal; Dr. Randhir Singh, Former ADG (Agri. Ext), ICAR; Dr. J.C. Dagar, Former ADG (Agroforestry) ICAR; Sh Gurdial Singh, President Kisan Vikas Club, KK, Punjab; Dr. S.K. Kamra, Soil and Water Conservation Engineer; Madam Shakuntla Dagar, Advocate, Karnal; Dr. Santosh Dahiya, Professor, KUK; Sh. Virender Siwach, President, KCC; Er. S.S Sandhu, Executive Engineer (Retd) and Sh Suresh Deswal, General Secretary, KCC. Chaudhary Birender Singh, Former Union Cabinet Minister, Govt. of India and Chief Pattern of KCC participated as Chief Guest. Justice Pritampal, Former Judge, Pb. & Hr. High Court presided over the function; Chairman, GSFRED delivered the Keynote Address and highlighted various models developed at the GSF Research, Education and Development Centre including Climate Smart Agriculture, Integrated Farming System, ways to double the Farmers Income and Carbon Sequestration at the farm level.



The Event marked a significant milestone in our journey of climate awareness, empowering Kisan, promoting value addition and processing, agri business innovation and building sustainable rural economies. The issues, how to transformer Indian Agriculture into a vibrant, self-reliant and future ready agriculture sector were also discussed.

### 2.3 State level workshop on promotion of agri-entrepreneurship

A state level workshop on promotion of agri entrepreneurship was organised by Kisan Kalyan Pradhikaran, Govt of Haryana on 26th September, 2025 at GSF Research Centre, Karnal. The meeting was inaugurated by Sh. Virender Singh Badkhalsa, OSD to Hon'ble CM, Haryana. Sh. Kavinder Rana, Representative of Hon'ble Union Minister, Sh. Manohar Lal Khattar ji and Sh. Nepal Singh Rana, participated as guests of honour. About 20 eminent agri entrepreneurs of Haryana participated and shared their success stories with the participating farmers. The prominent agri entrepreneurs who attended the workshop included; Sh. Sultan Singh, VPO-Butana, Nilokheri (Padam Shri Awardee), Karnal; Sh Kanwal Singh Chouhan, Vill. Aterna, Block Rai, Sonipat (Padam Shri Awardee); Sh Rajesh Kumar, Vill Kheri Skinder, Kaithal; Sh. Puneet Singh Thind, Founder & Director, Northern Farmers Mega FPO, Ambala; Sh. Mahender Singh, Vill-Rasina, Pundri, Dist Kaithal; Sh. Vikas Chaudhary, Taraori, Dist Karnal; Sh. Harvinder Singh, Vill-Sehzadpur, Block-Ladwa, Dist-Kurukshetra; Sh. Rajbir Singh, VPO Dadupur Khurd, Dist-Karnal; Sh. Sanjay Kumar, Taj Export Seeds, Indri, Karnal; Sh. Virender Kumar, agri-entrepreneur in Mushroom cultivation, Morni; Sh. Harpal Singh Bajwa, Vill. Bohar Sadan, Kurukshetra and Shri Gurcharan Singh, seed producer, village Brass, district Karnal. Dr. O. P. Chaudhary, Principal, College of Agriculture & Regional Director, Regional Rice Research Station, Kaul, Dr. Ashwani Kumar, Assistant Professor, Plant Pathology College of Agriculture, Kaul; Dr. Rajender Singh Gadhwal, Assistant Professor, Soil Science & Natural Farming, College of Agriculture, Kaul also addressed the gathering. Dr. R.S. Chauhan, CEO, Kisan Kalyan Pradhikaran, Haryana



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delivered the valedictory address. Dr. Gurbachan Singh, Chairman GSFRED and Former Chairman Agricultural Scientists Recruitment Board and Union Agriculture Commissioner stressed the need to adopt integrated farming system for doubling farmers income and also to promote agri entrepreneurship on the fields of small and marginal farmers. About 200 farmers and agricultural experts participated in this one day workshop.

#### 2.4 Meeting of kisan chamber of commerce

A meeting of the executive committee of KISAN CHAMBER OF COMMERCE was held on 11 December, 2025 under the



chairmanship of Dr. Gurbachan Singh, Patron of the Chamber, at GSFRED, Karnal. The agenda of the meeting was to review arrangements made for successful conduct of a national level webinar on 14th December, 2025 on pre-budget consultations with all stakeholders engaged in agriculture.



The recommendations emerged from the discussions were to be communicated to the honourable Finance Minister of India for consideration in union Budget 2026-27.

#### 2.5 Meeting of kisan chamber of commerce

Another Karnal based stakeholders meeting was held at GSFRED Research Centre on December 13, 2025 to take suggestions for presentation in pre-budget 2026-27 National Webinar to be organised by Kisan Chamber of Commerce on December 14, 2025 on the topic Pathways for Inclusive & Sustainable Agriculture Growth. Progressive farmers, agricultural scientists, entrepreneurs, farmers representatives and agricultural policy experts participated and offered valuable suggestions.



#### 2.6 Karnal Chapter of NAAS Organised a Guest Lecture on Climate Change and Food Security

A meeting of the Karnal Chapter of National Academy of Agricultural Sciences (NAAS), New Delhi was organised on December 19, 2025 at CSSRI, Karnal. Dr. J.S. Samra, Former CEO, NRAA and Deputy Director General (NRM), ICAR delivered the guest lecture entitled Climate Change and Future Food and Environmental Security. About 15 eminent scientists and fellows of NAAS including Drs. M.L. Madan, P.S. Minhas, J.C. Dagar, Arjava Sharma, P.C. Sharma, Rajan Sharma, Jeet Singh Sandhu, S.K. Kamra, S.K. Gupta and Scientists of CSSRI participated. Dr. R.K. Yadav, Director, CSSRI presented the welcome address and Dr. P.C. Sharma briefed the gathering about activities of the Chapter. The Convenor of Karnal Chapter of NAAS, Dr. Gurbachan Singh presided and



stressed the need of long-term planning to make agriculture climate resilient, Dr. Rai, Principal Scientist, CSSRI presented the vote of thanks.



#### 2.7 National Science Day celebrated with school students.

NAAS Regional Chapter, Karnal celebrated National Science Day with school students on February 28, 2026 at GSF Research Centre, Karnal. Sixty students from Adarsh School accompanied by their five teachers participated. Dr. Gurbachan Singh, Former Chairman, ASRB, New Delhi delivered the Science Day Lecture on the topic Agriculture Science and Society. Dr. Arjava Sharma and Dr. B.Prakash honoured fellows of the Academy also addressed the students covering agrobiodiversity and livestock

improvement through embryo transplant technology. Four students also made excellent presentations covering the subjects of AI and Machine learning and their importance for agriculture; climate change and agriculture; natural resources management and water conservation. The participating students also displayed models for depicting science interventions. The convener of Karnal Chapter of NAAS and Chairman GSF research centre presented certificates of participation to all the students on behalf of National Academy of Agricultural Sciences, New Delhi. The visiting students were also exposed to various research facilities and field experiments established at the GSF farm to double farmers income, multienterprize agriculture to make multiple use of resources, climate smart agriculture, crop residue management practices and agroforestry techniques.



## 3. Celebrations

#### 3.1 Celebration of seventh foundation day and rabi kisan vigyan mela on March 3, 2025

Seventh Foundation Day and a Kisan Vigyan Mela was organised on 3rd March, 2025 at Gurbachan Singh Foundation Research Centre, Karnal. Dr. Gurdev Khush, world renowned rice scientist and recipient of World Food Prize Laureate inaugurated the function as chief guest. Dr S. K. Malhotra, Vice Chancellor, Maharana Pratap University of Horticulture and Technology delivered the Foundation Day lecture. Dr. M.L. Madan, former DDG, ICAR and Dr. P. Sheoran, Director, ATARI, Ludhiana participated as guests of honour. The event was

organized to share agricultural technologies and innovations developed at GSFRED for the welfare of the farmers. Seeds of high yielding, climate smart, pest resistant, new varieties of rice PB-1509, PB-1692, PB-1847, PB-1718, PB-1885, PB-1401, PB-1886, PB-1979, PB 1985, CSR-30, PR- 114, PR-126, PR-131, DRR-58, were distributed to the visiting farmers.

Dr. Gurbachan Singh, Founder Chairman of the Foundation and Former Chairman, ASRB; Agriculture Commissioner, Govt. of India and Director, CSSRI, Karnal shared the activities and programs of GSFRED initiated in 2018 for the welfare of farmers and skill and entrepreneurship development in



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unemployed youth and students. He talked about the Integrated Farming System Model developed at GSFRED for doubling income of small and marginal farmers and to make agriculture climate resilient. He further shared that about 50% irrigation water can be saved through raised bed planting of wheat and placing rice residue in furrows as mulch, growing moong on same bunds without cultivation followed by planting short duration varieties of rice such as PB 1509, PB 1692, PR 126 in the month of July. This also helps to rejuvenate nutrient depleted soil, helps in regeneration of biodiversity and act as a guard to cover climate change risk in agriculture.

The chief guest of the day, Dr. Gurdev Khush while presenting his inaugural address appreciated Dr. Gurbachan Singh for establishing a Foundation after retirement for the benefit of school students, farmers, entrepreneurs and civil society representatives. The World Food Prize Laureate, Dr. Khush mentioned that it is his 3<sup>rd</sup> visit to this unique research institute where highly relevant practical work is being done for the welfare of the farmers and advancement of agricultural sciences. Dr. Khush further said that Gurbachan Singh Foundation has become a central platform for exchange of agricultural innovations and technologies amongst the scientists of the region and its onward transfer to farmers and other stakeholders in the country and abroad.

The Vice Chancellor of MPUAT, Dr. S.K. Malhotra in his foundation day lecture emphasized a strong need for integrating horticulture with agriculture to improve farmers income and to sequester carbon at the farm level. He

appreciated the foundation for supplying quality planting material of horticulture species, aromatic and medicinal plants to the farmers and others.



### 3.2 Kharif Kisan Mela on October 11, 2025

A Kisan Vigyan Mela was organized at the GSFRED research centre, near Kachhwa town, Karnal on October 11, 2025. The Kisan Mela was organized to share agricultural innovations and technologies developed at GSFRED for the welfare of the farmers. The visiting farmers were exposed to the Integrated farming system model for doubling farmers income; Furrow Irrigated Raised Bed Planting (FIRB) Technique to save irrigation water and making eco-friendly use of paddy straw as mulch in furrows; natural and organic farming techniques, quality planting material of fruits and landscaping plants etc. Seeds of high yielding, climate smart, pest resistant, new varieties of wheat DBW-327, DBW-377, DBW-386, PBW-872, RS-1, HD-3385, HD-3386, HD-3390, HD-3406, HD-3410, were distributed to the visiting farmers. Baba Kashmir Singh ji, Gurdwara Nanaksar, Sector 6, Karnal; Baba Jassa ji, Nirmal Kutia, Zarifa, Karnal; Dr. M.L. Madan Former DDG, Animal Sciences, ICAR; Dr. S.K. Malhotra, VC, MPUAT, Karnal; Dr. P.C Sharma, Ex-Director ICAR-CSSRI, Karnal; Dr. R.K. Yadav, Director, CSSRI, Karnal; Dr. N.H. Mohan, Director, National Bureau of Animal Genetic Resources (NBAGR), Karnal; Shri Vijay Setiya ji, Former President Rice Export Association of India; Dr. Gyanendera Singh, Ex-Director ICAR-DWBR, Karnal and Dr. Randhir Singh, Ex ADG, Agriculture Extension, ICAR participated as guests of honour.



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Dr. Gurbachan Singh, shared the activities and programs of GSFRED initiated for the welfare of farmers and skill and entrepreneurship development in unemployed youth and students. He talked about the Integrated Farming System Model developed at GSFRED for doubling income of small and marginal farmers, to reduce cultivation cost, a source of regular income and to make agriculture climate resilient. He further shared that about 50% irrigation water can be saved through raised bed planting of wheat and placing rice residue in furrows as mulch, growing moong on same bunds without cultivation followed by planting short duration varieties of rice such as PB 1509, PB 1692, PB-1847 and PR 126 in the month of July. This also helps to rejuvenate nutrient depleted soil, helps in regeneration of microbial biodiversity and act as a guard to cover climate change risk in agriculture.

Dr. Madan, while delivering his address strongly advocated the need for integrating livestock with crops to make

agriculture sustainable and resilient to climate change. He appreciated Dr. Gurbachan Singh for establishing a Foundation after retirement for the benefit of school students, farmers and civil society members.

The Vice Chancellor of MPUAT, Dr. S.K. Malhotra emphasized a strong need for integrating horticulture with agriculture to improve farmers income and to sequester carbon at the farm level. He appreciated the foundation for supplying quality planting material of horticulture species, aromatic and medicinal plants to the farmers and others. Dr. Malhotra further emphasized the need of processing and value addition in horticultural crops to reduce losses and to increase farmers income.

More than 700 people attended the Kisan Mela which included farmers, scientists, research managers, entrepreneurs, educationists, students and civil society representatives.



## 4. Visitors

### 4.1 Seed Producers of Karnal Region at GSF Farm

Prominent seed producers and distributors of Karnal region visited the GSF farm on March 9, 2025. They inspected the relative growth of different varieties of wheat planted at the farm. They discussed merits and demerits of each variety developed by NARS with GSFRED Chairman for planting in this region.





### 4.2 Small, marginal and landless farmers at GSF Research Farm

About 70, small, marginal and landless farmers including about 60 women farmers visited GSF Research Centre on 13 August, 2025. The visit was arranged by Haryana Vigyan Manch in Collaboration with Karnal Department of Agriculture and Farmers Welfare and Haryana State Gramin Ajjivika Mission and Village Panchayats of Kachhwa, Birmajra, Zarifabad and Sagga. The visiting farmers had the opportunity to see Integrated Farming System Model for Doubling Farmers Income; Climate Smart Agriculture Practices; Seed Plots of new Varieties of Rice, Agroforestry Models; Soil and Water Conservation Techniques; Demonstrations on Natural Farming and Organic Agriculture; Safe Food Production Practices and Nursery of Fruits, Flowers, Aromatic, Medicinal and Landscaping Plants. Sh Vijay Setia ji, Former President, Rice Export Association of India and Chairman GSFRED had detailed interaction with the visiting farmers. Dr. Rajinder Singh, Executive Member Haryana Vigyan Manch Coordinated the visit.



### 4.3 Students of Medicaps University, Indore

A Group of 35 students accompanied by their professors from Medicaps University, Indore, Madhya Pradesh on a professional visit to GSF Research Farm , Karnal on April 08, 2025



### 4.4 Progressive farmers from Punjab at GSFRED, Karnal on 15 May, 2025





#### 4.5 School and College students

More than 300 students of 1st and 2nd std from Adarsh School Karnal visited GSF Research Centre. Chairman, GSFRED interacted with students and showed research experiments and demonstrations on climate smart agriculture, integrated farming systems, agroforestry, water saving and soil rejuvenation techniques, nursery of quality planting material and livestock comprising cows, buffalos, goats, poultry, rabbits and horses.



**4.6** Students from Government Higher Secondary School, Pundrik visited GSF Research farm on 04-02-2026. Founder Chairman GSFRED and Convener NAAS Regional Chapter, Karnal interacted with the students and showed them Climate Smart Agriculture Practices, Water Saving Techniques, Crop Diversification Experiments, Integrated Farming System Model for Doubling Farmers Income and Organic Agriculture / Natural Farming Practices.



**4.7** Twenty five B.Sc. (Agri), M.Sc. and Ph.D professionals undergoing Agri-clinics and Agri-Business Training at Jay Bajrang Pratishthan, Baraut visited GSF Research Centre on January 05, 2026. The objectives of the visit were to familiarize the trainees to the integrated farming systems and their components; efficient resource utilization and farm management practices and practical insights into agri-entrepreneurship research and demonstration technologies and innovations developed at the GSF centre. The trainees and their trainers were exposed to the integrated farming system model developed for doubling farmers income; quality seed production unit; climate smart regenerative agricultural systems; quality production of fruits, medicinal and aesthetic saplings and organic and natural farming practices. Dr. J.K. Sheoran, Nodal Officer, MANAGE coordinated the visit.



**4.8** Dr. Gyanendra Singh, Ex Director, Indian Institute of Wheat and Barley Research with Chairman GSFRED at GSF Research Centre, Karnal on Sept. 24, 2025. Inspected all new rice varieties grown for seed production.





## 5. Chairman Visits ( National and International )

### 5.1 National

**5.1.1** Dr. Siraj Hussain, Former Secretary, DAC, Ministry of Agriculture and Farmers Welfare at Indian School of Public Policy, New Delhi on 31st January, 2025. Delivered an invited lecture on Agricultural Research, Development and Policy and joined discussion as a Panalist. The interaction with learned professionals from different organisations was very interesting and fruitful.



**5.1.2** Participated in 60th Diamond Jubilee Alumni Meet at PAU on 6th February 2025. An excellent opportunity to meet teachers, colleagues, friends and classmates of 1975 BSc Agri pass outs .



**5.1.3** Participated in the 57th Foundation Day celebration of ICAR - CSSRI on 12 March, 2025.





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**5.1.4** Participated as chief guest in a function organised by the Rashtriya Adiatmic Kaviya Sanghosti Manch, Karnal in sweet memory of Sahitkar Shri Rameshwar Dayal Goel ji. Punam Goel and Rachna Gupta, the daughters of Shri Rameshwar Goel ji organised this function on the occasion of 79th Independence Day Celebration in a hotel in Alpha City. This was the 21st Rashtriya Adiatmic Kaviya Sanghosti in which tributes were paid to martyrs of freedom struggle by more than two dozen poets. Prominent persons from Karnal including family members of late Shri Rameshwar Dayal Goel ji, (a prominent poet, social reformer, lover and promoter of national language and scientific culture) graced the occasion.



**5.1.5** On the kind invitation of Dr Gopal Lal, Acting Director, National Academy of Agricultural Research Management (NAARM), Hyderabad visited the Academy from August 31 to September 2, 2025. Participated in the Golden Jubilee Function as Chief Guest and delivered the 50th Foundation Day Lecture. Also has the opportunity to interact with more than 100 Foundation Course ARS Scientists undergoing training at NAARM. Highly pleased to see excellently managed Academy campus including infrastructure development. The created sports facilities are one of the best



in the ICAR system. The scientists and other staff seemed highly motivated and working like a well-oiled machine. Congratulations to all the previous and present Director for bringing the Academy to its present form.



**5.1.6** Participated in National Consultation on Scaling Agroforestry held on 18 to 19 September, 2025 at NASC complex, New Delhi. Delivered a lecture on way forward for upscaling agroforestry and co-chaired with Dr. R.B. Singh an evening lecture.



**5.1.7** As Chairman of Peer Review Team (PRT) Constituted by ICAR to Evaluate Pandit Jawaharlal Nehru College of Agriculture and Research Institute (PAJANCOA&RI), Government of Puducherry Institution, Karaikal, for Accreditation. The seven member multidisciplinary team visited the college from 26th to 29th November 2025 to physically verify the self-study report submitted by the college to ICAR for Accreditation. The team visited education and research facilities of the college and had detailed discussions with the faculty and students. The team also interacted with the Chief Secretary of Puducherry who is chairperson of the Governing Council of the college. A meeting was also held with the Vice Chancellor, Pondicherry University (A Central University) to which the college is affiliated.



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**5.1.8** It was a pleasure to visit Agronomy Division of ICAR-IARI New Delhi on January 16, 2026 to deliver a lecture “Precision Agriculture Technologies: Environmental Responsibility and Optimizing Resource use for Increased



farm-Income” to the participants of a Winter School Scientists, Students and Faculty of the division. The opportunity was also used to meet old colleagues in the agronomy division. Thanks to Dr. Ramanjit Kaur, Principal Scientist and Course Director of the Winter School for the Kind invitation.



### 5.1.9 ICAR-IISWI, Dehradun

Chaired RAC meeting on 23-24 Feb., 2026





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#### 5.2 International

**5.2.1** Participated as an expert in the results presentation meeting of the C-SUCSeS (Climate Smart Agriculture) project and way forward held on 27 to 28 June, 2025 in Colombo, Sri Lanka. The meeting was jointly organised by SAARC Agriculture Center, Dhaka and International Food Policy Research Institute (IFPRI), New Delhi. The first phase (Five Years) results were presented by the six participating countries; India, Bangladesh, Sri Lanka, Pakistan, Bhutan and

Nepal. The road map for the second phase of the project for inclusion of livestock and fisheries was also discussed. The prominent participants included: Dr. Md. Harunur Rashid, Director, SAC; Mr. Tanvir Ahmad Torophder, Director, ARD, SAARC Secretariat; Dr. Shahidur Rashid, Director-South Asia, IFPRI; Ms. Irosha Cooray, OIC, SDF; Mr. Abdelkarim Sma, Lead Regional Economist, Asia and Pacific Division, IFAD and D.P. Wickramasinghe, Secretary, Ministry of Agriculture, Livestock, Land and Irrigation, Sri Lanka.

**5.2.2** Participated in the International Commission on Irrigation and Drainage (ICID) conference entitled 4th World Irrigation Forum (WIF4) & 7th International Executive Council Meeting, held at Kuala Lumpur, Malaysia from 7th to 13th September, 2025 and presented following two papers:

(a) Multiple Use of Water Through Multienterprise Agriculture for Livelihood and Environment Security of Small Land Holder Farmers.

(b) Diversification Options for Rice-Wheat Cropping System to Save Water and to Provide Resilience for Climate Change in North-West India.





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**5.2.3** Participated as a guest of honour in the International Salinity Conference held at ICAR-Indian Institute for Coastal Agricultural Research (IICAR), Goa. This global event was jointly organised by ICAR-CSSRI, Karnal; ICAR, New Delhi; Indian Society of Soil Salinity and water Quality (ISSWQ) and IICAR, Goa. More than 200 delegates including about 35 from abroad participated. Dr. A.K. Nayak participated as chief guest and delivered the inaugural address. I delivered a key note speech during the inaugural session, chaired a special session on stakeholders and industry interaction and being patron of ISSWQ presided over the Governing Body Meeting of the ISSWQ. Glimpses of the successfully organised conference are shared.



**5.2.4** As a key member and advisor of the organising committee, I participated in the Global Agrovet Research

Conference (GARCX) organised by ARCC journals from 10th – 11th November, 2025 at Dusit Thani, Dubai. The conference was inaugurated by Dr. Wafa Faisal Al Yamuni, Desertification Policy Expert, MOCCA, UAE. The keynote address was presented by H.E. Dr. Abdulilah Batatik, Chief Strategic Transformation and Investments, Arab Authority of Agriculture Investments and Developments, UAE. I presented the opening remarks in the inaugural session and shared the theme and expected output from this global event. Large number of policy experts, research managers, scientists, entrepreneurs, industry representatives, private companies, NGO's and farmers from different countries participated. The major emphasis in this two day conference targeted at One Health was on developing collaboration projects to meet future challenges of food, health and environmental security.



## 6.0 Honours and Awards

**6.1** Honoured with Eminent Sikh of Haryana Award by Ek Onkar Media in Collaboration with Chardi Kala Time TV and International Sikh Forum on October 26, 2025. A Coffee-Table Book with Citations of Eminent Sikhs of Haryana was also released. This Honour has been bestowed upon Chairman GSFRED for his Leadership role in Agricultural Research and Development.



**6.2 Life Time Achievement Award For Outstanding Contributions in Agroforestry Research and Development**

The Central Institute of Agroforestry Research (CAFRI), Jhansi and Indian Society of Agroforestry honoured Chairman, GSFRED with the Life Time Achievement Award for his outstanding contributions in agroforestry research and



development. This prestigious award was conferred upon him on 8th May, 2025 at Jhansi during the **National Agroforestry Day and 38th Foundation day Celebrations of the Institute.** The highlights of the program included tree plantation by the dignitaries, inauguration of newly established Agroforestry Industrial Unit and interaction with the farmers.



### 7.0 Publications

- Singh, Gurbachan. 2025. Multiple use of Water through Multi Enterprise Agriculture for Livelihood and Environment Security of Small Land Holder Farmers. In proceedings of the International Commission on Irrigation and Drainage (ICID) Conference in Kuala Lumpur, Malaysia, September 7-13,2025.
- Singh, Gurbachan. 2025. Diversification Options for Rice-Wheat Cropping System to Save Water and

to Provide Resilience for Climate Change in North-West India. In proceeding ICID Conference held in Kuala Lumpur, Malaysia from September 7 to 13, 2025.

- Singh, Gurbachan. 2025. In-situ Management of crop residues : A way forward for conservation agriculture. In Circular Economy in Agriculture in India, editors J.S. Samra and A.R. Sharma pages 27-58.

### 8.0 GSFRED in Press and Media

#### डाक्टर गुरबचन सिंह फाऊंडेशन में सातवां किसान मेला लगा



#### CELEBRATION OF SEVENTH FOUNDATION DAY AND KISAN VIGYAN MELA AT GSFRED, KARNAL

##### Media and Press Coverage of this Event



#### जैव विविधता को बचाना हमारी जिम्मेदारी एनबीएजीआर में आयोजित कार्यक्रम में बोले- कृषि वैज्ञानिक डॉ. गुरबचन



#### जैव विविधता खोई तो खत्म हो जाएगा प्रकृति का खजाना





### गुरबचन सिंह फाउंडेशन फॉर रिसर्च एजुकेशन एंड डेवलपमेंट केंद्र द्वारा 9 वीं किसान पाठशाला का आयोजन

काठमान्डू, 14 अगस्त (गर्भ) - गुरबचन सिंह फाउंडेशन फॉर रिसर्च एजुकेशन एंड डेवलपमेंट केंद्र (GSFRED) द्वारा 9 वीं किसान पाठशाला का आयोजन किया गया। इस कार्यक्रम में 2018-19 में शिक्षित किसानों को प्रोत्साहित करने के लिए आयोजित किया गया।



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### शाहादत को न आलम भूल पाएगा...



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### Quality, entrepreneurship in farming key to making India a global leader: OSD to CM



Quality, entrepreneurship in farming key to making India a global leader: OSD to CM. The OSD emphasized the importance of quality and entrepreneurship in farming to make India a global leader.

### हरियाणा व पंजाब में प्रमुख नदियों किनारे जलवायु की कटौत स्थापना - गुरबचन



हरियाणा व पंजाब में प्रमुख नदियों किनारे जलवायु की कटौत स्थापना - गुरबचन. The report discusses the impact of climate change on water resources in Haryana and Punjab.



### जलवायु परिवर्तन की चुनौतियों से निपटने के लिए अनुसंधान जगत की हरितियों ने किसानों को शिक्षा देना



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### कटरनाल केसर्टी वैज्ञानिक अनुसंधान को खेत तक पहुंचाना सी.एस.एस.आर.आई. का उद्देश्य : निदेशक



कटरनाल केसर्टी वैज्ञानिक अनुसंधान को खेत तक पहुंचाना सी.एस.एस.आर.आई. का उद्देश्य : निदेशक. The report discusses the mission of the Center for Agricultural Research and Innovation.



### Agri sciences academy celebrates National Science Day



Agri sciences academy celebrates National Science Day. 60 students from Adash School, accompanied by five teachers, visit GSF Research Centre. The report describes the visit and the activities conducted at the center.

Published By :

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