

Zonal Monitoring Teams and Schedule (2025-26)

S. No.	Zone	Date	Centres Visited	Team Members
1	NHZ Team I	05 to 09 April 2026	Shimla , Bajaura, Malan	Drs. Dharam Pal, Vijay Rana, Pramod Prasad and Rakesh Kumar Bairwa
2	NHZ Team II	07 to 10 April 2026	Almora, Majhera,	Drs. Jogendra Singh, OP Ahalawat, SC Gill and Navin Chander Gahtyari
3	NWPZ Team I	17 to 19 March 2026	HAU Hisar, IIWBR Hisar Seed and Research Center, Sri Ganganagar, Bathinda, Ludhiana	Drs. Anil Kumar Khippal, Jaspal Kaur, Simarjit Kaur and Y. Gulia
4	NWPZ Team II	23 to 26 February 2026	Bawal, Navgaon, Durgapura, Tabiji, Udaipur	Drs. Chuni Lal, PS Shekhawat and Kavita Bhadu
5	NWPZ Team III	09 to 11 March 2026	Modipuram, Nagina, Pantnagar, Bulandshahar	Drs. Jogendra Singh and Ravindra Kumar
6	NEPZ Team I	25 Feb. to 1 March 2026	Ranchi, BISA Samastipur, Burdhan	Drs. Santosh Kumar Bishnoi, Ravindra Kumar and Nayyar Ali
7	NEPZ Team II	04 to 06 March 2026	Kanpur, Dilipnagar, Kumarganj, Varanasi, Saini	Drs. Omvir Singh, Vijay Kumar Yadav, Grish Goyal and V. P Chaudhary
8	CZ Team I	23 to 27 February 2026	Gwalior, Jhansi, Banda	Drs. Lokendra Kumar, OP Gupta, Bhagat Singh, Manmohan Baghel

A. Trials Rejected by the Zonal Monitoring Teams

Trail Rejected	Location	Zone	Reason
IVT-Hulless Barley	Gwalior	CZ	Very low plant population
IVT-Dual Purpose Barley	Tabiji	NWPZ	Very poor (~10%) regeneration after first cut
IVT-Hulless Barley	Navgaon	NWPZ	Very high incidence of covered smut (~60%)

B. Entries recommended by the Zonal Monitoring Teams to be dropped from further testing:

(Decision was based on the consistent observations across the locations)

Trail Name	Entry No.	Reason
IVT-Malt Barley (NWPZ)	E8	No germination at all the locations
	E16	Segregation for rudimentary and non-rudimentary spike-lets, plant height and row type at all the locations.
	E19	Mixture of plants with rudimentary and non-rudimentary spike-lets (50:50)
IVT-Feed Barley (NWPZ, NEPZ, CZ)	E22	Mixture of tall and dwarf plants, waxy and no-waxy spikes
	E16	Mixture of 2-row and 6-row type plants (50:50)
IVT-Hulless Barley (NWPZ, NEPZ, CZ)	E26	Mixture of plants with rudimentary and non-rudimentary spike-lets (50:50), variation in spike
IVT/AVT-RF-HLB (NHZ)	E11	Poor germination (<5%) across all the locations.
IVT/AVT-RF-FB-DPB (NHZ)	E12	6 –row plants were observed in large number; few off types for plant heights were also observed

C. Some of the ancillary trait data was not considered because it was unrealistic.

- Like Tillers/meter at BISA, Samastipur; 1000-grains weight at Kota; Spike length at Burdwan

Zonal Monitoring Report 2025-26

Zone: NHZ (Team -I)

Period of visit: 05th to 09th April 2026

Name of team members:	Name of the centre	Location (Longitude and Latitude)
Drs. Dharam Pal (IARI RS, Shimla), Vijay Rana (CSKHPKV, Palampur), Pramod Prasad (ICAR-IIWBR, RS Shimla), Rakesh Kumar Bairwa, (ICAR-IIWBR, Karnal)	Shimla	Lat 31.09° Long 77.15°
	Bajaura	Lat 31.84° Long 77.17°
	Malan	Lat 32.11° Long 76.41°

Summary of breeding trials allocated & monitored:

Centre	Trial(s) Allotted	Trials Not Conducted / Rejected	Reason/Remark*
Shimla	IVT/AVT-RF-FB-DP-NHZ, IVT/AVT-RF-HLB-NHZ	All trials conducted	Very good & satisfactory
Bajaura	IVT/AVT-RF-FB-DP-NHZ, IVT/AVT-RF-HLB-NHZ	All trials conducted	Very good & satisfactory
Malan	IVT/AVT-RF-FB-DP-NHZ, IVT/AVT-RF-HLB-NHZ	All trials conducted	Very good & satisfactory

**Evaluate trials as very good, good, average and poor based on conduction*

Promising entries in breeding trials across centres:

Trial	Entries	Remarks
IVT/AVT-RF-FB-DP-NHZ	IVT-RF-FB-DP-4, IVT-RF-FB-DP-13, IVT-RF-FB-DP-16	Grain purpose on the basis of apparent agronomic score
	IVT-RF-FB-DP-1, IVT-RF-FB-DP-4, IVT-RF-FB-DP-8	Dual purpose on the basis of apparent agronomic score
IVT/AVT-RF-HLB-NHZ	IVT-RF-HLB-2, IVT-RF-HLB-14	On the basis of apparent agronomic score

Entries recommended for purification:

Trial	Entry	Remark
IVT/AVT-RF-FB-DP-NHZ	IVT-RF-FB-DP-2	Few off types of purple anthocyanin pigmented spikes were observed
	IVT-RF-FB-DP-8	Few off types of six rowed plants and non droopy spikes were observed
	IVT-RF-FB-DP-20	Few off types of two rowed plants were observed
IVT/AVT-RF-HLB-NHZ	IVT-RF-HLB-13	Few off types for plant height were observed

Entries recommended to be dropped from further testing:

Trial	Entry	Remark
IVT/AVT-RF-FB-DP-NHZ	IVT-RF-FB-DP-12	6-rowed plants were observed in large numbers, few off types for plant height were also observed

Entries exhibiting higher diseases incidence /insect infestation/poor germination/high lodging:

Trial	Remarks
IVT/AVT-RF-FB-DP-NHZ	None of the entries showed high incidence of yellow and brown rust. However, only one entry showed yellow rust incidence [IVT-RF-FB-DP-15: (YR 5S)]
IVT/AVT-RF-HLB-NHZ	IVT-RF-HLB-11: Very poor plant stand observed across the centres

Report on Agronomical Trials:

Centre	Trial(s) allotted and conducted	Remark
Shimla	IR-TS-HLB-DOS, IR-TS-DPB, SPL-6	All trials conducted. SPL6: Rejected due to poor plant stand.
Malan	IR-TS-HLB-DOS, IR-TS-DPB, SPL-5, SPL-6	All trials conducted satisfactorily

Report on Pathological Nurseries:

At Bajaura, IBDSN, NBDSN and EBDSN of barley were conducted satisfactorily. The disease development was satisfactory on all disease screening nurseries. Yellow rust development was satisfactory with up to 40 S severity of yellow rust on susceptible checks.

Farmers Interaction under VKSA during monitoring

Location	Number of Farmers Interacted	Remarks
Bajaura, Nagchala, Sundarnagar, Kangu, Malan, Thural	22	Farmers interaction during the monitoring tour.

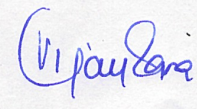
Any other trial (Physiological trial/nucleus seed production/Nurseries)

Special comments, if any (2-3 bullet points only)

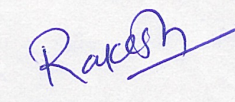
- The incidence of covered smut was observed on few entries of IVT/AVT-RF-HLB-NHZ trial.

Signature(s)


(Dharam Pal)


(Vijay Rana)


(Pramod Prasad)


(RK Bairwa)

Zonal Monitoring Report 2025-26

Zone: NHZ – Team II – BARLEY

Period of visit: 07 – 10 April 2026

Name of team members:	Name of the centre	Location (Longitude and Latitude)
Dr. Jogendra Singh	ICAR-IIWBR, Karnal	Almora
Dr. OP Ahalawat	ICAR-IIWBR, Karnal	Majhera
Dr. SC Gill	ICAR-IIWBR, Karnal	
Dr. Navin Chander Gahtyari	ICAR-VPKAS, Almora	Gaja (Ranichauri)

Summary of Breeding trials allocated & monitored:

Centre	Trial(s) Allotted	Trials Not Conducted / Rejected	Reason/Remark*
Almora	IVT/AVT-RF-FB-DP-NHZ; IVT/AVT-RF-HLB-NHZ	No	Very good
Majhera	IVT/AVT-RF-FB-DP-NHZ; IVT/AVT-RF-HLB-NHZ	No	Very good

*Evaluate trials as very good, good, average and poor based on conduction

Photographs of the trial

Promising entries in breeding trials across centers-: (Ranking of entries to be done in the booklet)

Trial	Entries	Remarks
IVT/AVT-RF-FB-DP-NHZ;	IVT-RF-FB-DP-4, IVT-RF-FB-DP-14, IVT-RF-FB-DP-19	Promising entries observed across all centers.
IVT/AVT-RF-HLB-NHZ	IVT-RF-HLB-2, IVT-RF-HLB-14	

Entries recommended for purification (Take photograph):

Trial	Entry	Remark
IVT/AVT-RF-FB-DP-NHZ;	NIL	-
IVT/AVT-RF-HLB-NHZ	NIL	-

Entries recommended to be dropped from further testing:

Trial	Entry	Remark
IVT/AVT-RF-HLB-NHZ	IVT-RF-HLB-11	Poor germination (<5%) across all the location.

Entries exhibiting higher diseases incidence /insect infestation/poor germination/high lodging (Take photograph):

No disease incidence (yellow and brown rust) was observed across the locations in both barley breeding trials.

Report on Agronomical Trials:

Centre	Trial(s) allotted and conducted	Remark
	IR-TS-DPB-NHZ	The trial had three genotypes with two levels of cut with four replications. The trial was well conducted with optimum plant stand.

Report on Pathological Nurseries:

Centre	Nursery	Remark
	IBDSN, NBDSN and EBDSN	The nursery was well conducted. Yellow rust disease incidence observed in the infector lines with scores upto 60S. Some to test entries has yellow rust score upto 20S.

Take the photograph of Infector rows

Farmers Interaction under VKSA during monitoring

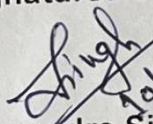
Location	Number of Farmers Interacted	Remarks

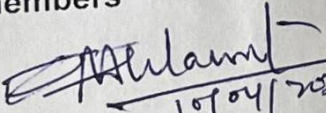
Any other trial (Physiological trial/nucleus seed production/Nurseries)

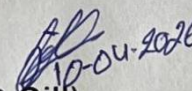
Special comments, if any (2-3 bullet points only)

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Signatures of all the members


(Jogendra Singh)


(OP Ahlawat)


(SC Gill)


(NC Gahtyari)

Proforma for Zonal Monitoring Report 2025-26

Zone:NWPZ

Period of visit: 17-19 March 2026

Name of team members:	Name of the centre	Location (Latitude and Longitude)
1. Dr Anil Kumar Khippal, Pr. Scientists, RM, ICAR-IIWBR, Karnal	HAU, Hisar, Haryana	29 ⁰ .1' N and 75 ⁰ .6' E
2. Dr Jaspal Kaur, Pr. Plant Pathologist, PAU, Ludhiana, Punjab	Hisar Centre ,IIWBR, Haryana	29 ⁰ .17' N and 75 ⁰ .67' E
3. Dr. Simarjit Kaur, Sr. Barley Breeder, PAU, Ludhiana, Punjab	Sri Ganga Nagar, Rajasthan	29 ⁰ .93' N and 73 ⁰ .88' E
4. Dr Y.Gulia, HAU, Hisar, Haryana	RRS, Bathinda, Punjab	30.19' N and 74.94' E
	PAU, Ludhiana, Punjab	30 ⁰ .91' N and 75 ⁰ .78' E

Summary of Breeding trials allocated & monitored:

Centre	Trial(s) Allotted	Trials Not Conducted/ Rejected	Reason/Remark*
HAU, Hisar (17.3.26)	IVT-FB, AVT-FB, IVT-DPB, AVT-DPB, AVT-MB, IVT-MB, IVT-HL, AVT-HL	Nil	<i>very good</i>
IIWBR Hisar Centre (17.3.26)	IVT/AVT salinity	Nil	<i>very good</i>
Ganganagar, (18.3.26)	AVT-MB, IVT-MB, IVT-HL, AVT-HL	Nil	<i>very good</i>
Bathinda (18.3.26)	AVT-MB, IVT-MB, IVT-HL, AVT-HL	Nil	<i>very good</i>
Ludhiana (19.3.26)	IVT-FB, AVT-FB, IVT-DPB, AVT-DPB, AVT-MB, IVT-MB, IVT-HL, AVT-HL	Nil	<i>very good</i>

**Evaluate trials as very good, good, average and poor based on conduction*

Photographs of the trial

Promising entries in breeding trials across centres-: (Ranking of entries to be done in the booklet)

Trial	Entries	Remarks
IVT-FB	E3,E4,E9,E10,E12,E17,E18,E25,E27,E28,E34,E35,E36	Good germination, high tillering, uniform, early, good spike
AVT-FB	E1,E2,E4,E7	Early, dwarf, high tillering and uniform
IVT-DPB	E5	High tillering, good regeneration, uniform
AVT-DPB	E3,E4	High tillering, good regeneration, uniform
AVT-MB	E2,E4,E5,E6	Good germination, high tillering, uniform
IVT-MB	E1,E4,E6,E7,E12,E13,E22,E23,E24	Good germination, high tillering, uniform
IVT-HL	E1, E7,E9, E13,E14,E19,E20, E24,E25, E32,E35	Good germination, high tillering, uniform, early, good spike
AVT-HL	E1,E3,E4,E5,E6,E8	Good germination, high tillering, uniform, good spike
IVT/AVT -Salinity	E3,E4,E5,E7,E8,E9,E20	Good germination, high tillering, uniform, good spike

Entries recommended for purification (Take photograph):

Trial	Entry	Remark
IVT-FB	E2,E6,E8,E11,E13,E17	• Variation in height of E8,E11,E13,E17 • Off types present in E2 and E6
AVT-FB	E1,E4,E5	• E1,E4,E5 has few off types
IVT-DPB	Nil	
AVT-DPB	Nil	
AVT-MB	Nil	
IVT-MB	E9,E10,E14, E25	• E9 and E10 has variation in height. • E14 has 4-5 off types of 6 R pigmented spikes • E25 has off types of tall height, 6R and non rudimentary spikes
IVT-HL	E3, E6, E9,E13,E21,E24,E29	• 4-9 off types were present
AVT-HL	Nil	
IVT/AVT-Salinity	E13	• Off types were present

Entries recommended to be dropped from further testing:

Trial	Entry	Remark
IVT-FB	E16,E21	• Mixture of 2R, 6R, rudimentary and non rudimentary type spike
IVT-MB	E8,E15,E16,E19	• E8 has only 8-9 plants in plot at Hisar, Bathinda and Ludhiana. • E15,E16 and E19 has about 10% mixture of rudimentary/non rudimentary spikes, and variation in height.
IVT-DPB	E10,E11,E25	• E10 has mixture of rudimentary and non rudimentary spikes • E11 has mixture of pigmented and waxy spikes • E25 has variation for plant height, spike length and spike pigmentation.
IVT-HL	E26,E28,E30	• E28 has variation in height • E26 and E30 has mixture of rudimentary and non rudimentary spikes
IVT/AVT-Salinity	E19	• Variation in spike size and colour

Entries exhibiting higher diseases incidence /insect infestation/poor germination/high lodging (Take photograph):

Trait	Trial: Entries with disease
Higher disease incidence	• AVT-MB: E1 has 18 % covered smut • AVT-HL: E7 has 70% covered smut and leaf blight 47 • IVT-FB: E14 has leaf blight 67 and E20 has leaf blight 99 • AVT-DP: E2 has leaf blight 99 • IVT-DP: E8 and E22 has leaf blight 99 • IVT-HL : 9 entries such as E2 (70%), E3 (70%), E4(80%),E22 (25%), E23 (30%),E26 (70%), E29 (35%),E34 (60%), E36 (40%) has higher incidence of covered smut at Sri Ganganagar and Bathinda • IVT/AVT-salinity: E4 has leaf blight of 57.
Poor germination	• IVT-MB: E8 has only 8-9 plants in plot at Hisar, Bathinda and Ludhiana.

Report on Agronomical Trials:

Centre	Trial(s) allotted and conducted	Remark
HAU,Hisar	IR-TS-MB-DOS, IR-TS-HLB-DOS, IR-TS-DPB, IR-SL-LON, SPL-5 and SPL-6	All the six trials were well conducted having proper plant population and proper weed management
PAU,Ludhiana	IR-TS-MB-DOS, IR-TS-HLB-DOS, IR-TS-DPB, IR-SL-LON and SPL-5	All the five trials were well conducted having proper plant population and proper weed management. IR-SL-LON was conducted at Bhatinda Centre.

Report on Pathological Nurseries:

Centre	Nursery	Remark
HAU, Hisar	NBDSN & EBDSN for Stripe rust (245 lines+12 lines)	Nurseries were conducted nicely.
	NBDSN & EBDSN for CCN	
PAU,Ludhiana	IBDSN for Stripe rust (1214 lines)	Nurseries were conducted nicely.
	NBDSN & EBDSN for Stripe and Leaf rust (245 lines+12 Lines)	



Photograph of Infector row at PAU,Ludhiana



Monitoring at HAU,Hisar



Monitoring at Sri Ganga Nagar



Monitoring at Bathinda



Monitoring at Ludhiana

Farmers Interaction under VKSA during monitoring

NA

Any other trial (Physiological trial/nucleus seed production/Nurseries)

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Special comments, if any (2-3 bullet points only)

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Signatures of all the members

**Dr Anil Kumar Khippal ,Pr. Scientists, Barley,
ICAR-IIWBR, Karnal**

**Dr Jaspal Kaur, Pr. Plant Pathologist,
PAU, Ludhiana, Punjab**

**Dr. Simarjit Kaur, Sr. Barley Breeder,
PAU, Ludhiana, Punjab**

**Dr Y. Gulia, Sr. Barley Breeder ,
HAU, Hisar, Haryana**

Proforma for Zonal Monitoring Report 2025-26

Period of visit: 23-26 February, 2026

Zone: NWPZ

Team-2

Name of team members:	Name of the centre	Location (Longitude and Latitude)
1. Dr. Chuni Lal Pr. Scientists & PI, Barley, ICAR-IIWBR, Karnal 2. Dr. PS Shekhawat, Plant Pathologist, RARI, Durgapura 3. Dr Kavita Bhadu, Agronomist, RARI, Durgapura	RRS, Bawal	28°.1' N and 76°.5' E
	ARS, Navgaon	27°.34' N and 76°.38' E
	RARI, Durgapura	26°.51' N and 75°.47' E
	ARSS, Tabiji	26°.37' N and 74°.59' E
	RCA, Udaipur	24°.35' N and 73°.42' E

Summary of breeding trials allocated& monitored:

Centre	Trial(s) Allotted	Trials		Reason/Remark*
		Not conducted	Rejected	
Bawal (23.2.26)	AVT-MB, IVT-MB	NIL	NIL	Average
Navgaon (23.2.26)	IVT-DPB, AVT-DPB, AVT-MB, IVT-MB, IVT-HL, AVT-HL	NIL	IVT-HL	IVT-HL was rejected due to very high incidence of covered smut (>60 %)
Durgapura (24.2.26)	IVT-FB, AVT-FB, IVT-DPB, AVT-DPB, AVT-MB, IVT-MB, IVT-HL, AVT-HL	NIL	NIL	Good
Tabiji (25.2.26)	IVT-FB, AVT-FB, IVT-DPB, AVT-DPB, AVT-MB, IVT-MB, IVT-HL, AVT-HL	NIL	IVT-DPB	IVT-DPB was rejected due to very poor plant stand. Rest all the trials were very good.
Udaipur (26.2.26)	IVT-FB, AVT-FB, IVT-DPB, IVT-HL, AVT-HL	NIL	NIL	Very good

**Evaluate trials as very good, good, average and poor based on conduction*

Photographs of the trial

Promising entries in breeding trials across the centres-: (Ranking of entries to be done in the booklet)

Trial	Entries	Remarks
AVT- FB-NWPZ-(2025-26)	E-2, E-3 and E-4	These entries were listed based on their visual score for performance in the trials average across the centres.
AVT- DPB-NWPZ-(2025-26)	E-2, E-3	
AVT- HL-NWPZ-(2025-26)	E-2, E-4, E-5	
AVT- MB-NWPZ-(2025-26)	E-3, E-6	
AVT- FB-CZ-(2025-26)	E-2, E-4, E-5, E-6, E-7	
AVT- HLB-CZ-(2025-26)	E-11	
IVT- FB-NWPZ-(2025-26)	E-3, E-5, E-9, E-23, E-30	
IVT- DPB-NWPZ-(2025-26)	E-5, E-12, E-14, E-20	
IVT- HLB-NWPZ-(2025-26)	E-3, E-13, E-25, E-27, E-35	
IVT- MB-NWPZ-(2025-26)	E-4, E-7, E-10, E-18, E-20	

Entries recommended for purification (Take photograph):

Trial	Entry	Remark
AVT- FB-NWPZ-(2025-26)	E-5	Six off-types for plant height were found at Durgapura and Tabiji
AVT- HL-NWPZ-(2025-26)	E-1 & E-2	Three off-types for plant height in E=1, and six off-types for early-maturity, plant-height, row-type were found at all the three locations (Navgaon, Durgapura and Tabiji).
AVT- MB-NWPZ-(2025-26)	E-4	Four off-types for plant height were found at all the four locations.
IVT- FB-NWPZ-(2025-26)	E-12, E-13, E-21 & E-24	Off types for plant height (E-12, E-13, E-21) and 2-row type (E-24)
IVT- DPB-NWPZ-(2025-26)	E-13 & E-18	Off types for 2-row type (E-13) and both 2-row type and plant height.
IVT- HLB-NWPZ-(2025-26)	E-4, E-7, E-10, E-13, E-22, E-23 & E-30	Off types observed for 6-row type (E-4, E-10, E-22, E-23) and 2-row type (E-7); plant height (E-13) and rudimentary spike lets (E-30)
IVT- MB-NWPZ-(2025-26)	E-3	Up to 4-off-types for plant height were found at all the four locations

Entries recommended to be dropped from further testing:

Trial	Entry	Remark
IVT- MB-NWPZ-(2025-26)	E-8 E-16 E-19 E-25	E-8: No germination at all the locations E-16: Segregation for rudimentary/non-rudimentary spike-lets; plant height; row-type at all the locations E-19: Mixture of plants with rudimentary and non-rudimentary plants 50:50 at all locations E-25: Mixture of several types of plants (6-row, rudimentary/non-rudimentary spike-lets, plant height, waxy-non-waxy spikes)

IVT- FB-NWPZ-(2025-26)	E-16	50:50 mixture of 2/6 row types plants
IVT- HLB-NWPZ-(2025-26)	E-6 E-26	E-6 has variations for plant height, row-types and maturity; E-26 has 50:50 mixture of plants with rudimentary and non-rudimentary spike lets.
AVT- HLB-CZ-(2025-26)	E-13	A mixture of plants segregating for different plant heights was observed

**Entries exhibiting higher diseases incidence /insect infestation/poor germination/high lodging
(Take photograph):**

AVT- DPB-NWPZ-(2025-26):Net Blotch was observed in E-2 (57 score) at Tabiji AVT- HL-NWPZ-(2025-26):Covered smut was observed in E-1 (2%), E-7 (20%), E-5 (2%) at Navagon AVT- MB-NWPZ-(2025-26):Covered smut was observed in E-1 (1-2%)at Tabiji, E-5 (2-5%, at all the locations (Bawal, Navgaon, Durgapura) IVT- MB-NWPZ-(2025-26): Covered smut was observed in E-1 (1%), E-7 (1%) and 1-3% in E-10 at Bawal, Navgaon & Tabiji. The entries namely E-1, E-2, E-4, and E-5 were showing poor germination at all the locations except Tabiji. IVT- FB-NWPZ-(2025-26): Leaf blight in E-3 (23), E-4(13), E-7 (35), E-11 (13), E-20 (23), E-36(35); loose smut in E-20 (<i>In traces</i>); powdery mildew in E-20 (4) &E-32 (3); poor-germination in E-11, E-24, E-25 & E-36; and lodging in E-7 (10%), E-10 (50%) &E-14 (40%) were observed. IVT- DPB-NWPZ-(2025-26): Covered smut in E-24, E-25, E-23 &E-22; leaf blight in E-8 (57), E-11(13) & E-22 (57); powdery mildew in E-22 (3); poor germination in E-1, E-2, E-3, E-4, E-6, E-7, E-8, E-9, E-13, E-16 &E-18 were observed at Tabiji, and in E-4 and E-16 at Navgaon location also. IVT-HL-NWPZ-(2025-26):Leaf rust in E-14 (10S); leaf blight in E-9 (23) and covered smut in E-2 (95%), E-3 (30%), E-4(20%), E-5 (92%), E-9 (in traces), E-10 (10%), E-11 (2%), E-15 (10%), E-23 (50%), E-24 (2%), E-27 (95%), E-29 (25%), E-34 (50%), E-35 (15%) and E-36 (10%) were noted at Navgaon location; whereas, poor germination was observed in E-1, E-2, E-4, E-5, E-7, E-8, E-9, E-11, E-16, E-18, E-19, E-21, E-24, E-25, E-26, E-28, E-29 &E-33 (in majority of the cases at Navgaon location); lodging in E-12 (50 %) at Udaipur and Tabiji and E-17(80 %). AVT-FB-CZ-(2025-26): Lodging in E-3 (30%), E-7 (5%). AVT- HLB-CZ-(2025-26): leaf blight in E-1 (23); lodging in E-1 (20%); very poor germination in E-2, E-6, E-7, E-9, E-10 & E-12		
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Report on Agronomical Trials:

Centre	Trial(s) allotted and conducted	Remark
Durgapura	IR-TS-MB-DOS, IR-TS-HLB-DOS, IR-TS-DPB, IR-SL-LON, SPL-5 and SPL-6	Excellent conductance trials; the treatment effects were discernible. Though salinity trial was conducted as per the technical programme, but the Durgapura centre does not have saline soils at its farm.
Udaipur	IR-SL-LON, IR-TS-HLB-DOS, SPL-5	Two trials IR-TS-HLB-DOS, SPL-5 were excellent at Udaipur. One trial IR-SL-LON, was conducted at ARS Balabhpur, in saline plot.

Report on Pathological Nurseries:

Centre	Nursery	Remark
Durgapura	Pathology: IBDSN (1214) NBDSN (245) & EBDSN (12) lines for screening against yellow rust.	All the nurseries were planted perfectly; sufficient yellow rust pressure was created for meaningful screening. The infector and susceptible test entries were showing >80Sr rust score.
	Nematology: CCN Screening : NBDSN & EBDSN CCN management trial	CCN screening nurseries and experiments were also perfectly planted and good inoculums of nematodes was present in the soils for meaningful screening.
	Entomology: Aphid screening: NBDSN Termite management trial	Aphids screening nurseries and management trials were conducted properly, but the aphid & termite infestation was not there.
Udaipur	NBDSN & EBDSN for CCN; CCN Experiment	Both the nursery and the management experiment were conducted nicely. The nematodes population was satisfactory in the field.

Take the photograph of Infector rows**Farmers Interaction under VKSA during monitoring**

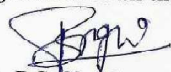
Location	Number of Farmers Interacted	Remarks
Navgaon	7	Besides farmers, we also interacted with the college students and shared benefits of growing barley
Tabiji	Group-1: 40 farmers (KVK, Tabiji) Group-2: 35 farmers (NRCSS, Tabiji)	Advocated to these farmers the importance of barley cultivation. Also shared contacts for seeds availability for both barley and wheat crops
Udaipur	12	An interaction session was organized with the farmers who came from the tribal areas of Udaipur district. Feedback on their response to barley-cultivation was taken. Importance of cultivation of hull-less barley was explained to them. The farmers showed their keen interest in the hull-less barley cultivation and requested support from the IIWBR, Karnal

Any other trial (Physiological trial/nucleus seed production/Nurseries) :

Special comments, if any (2-3 bullet points only)

Covered smut infection was noted at all the cooperative centers but it was very heavy at Navgaon, therefore, a trial IVT-HL was rejected due to very heavy infection of >60% . In IVT-DP trial at Tabiji center, the rejuvenation per cent was very less (20-25 % only) in most of the entries. Hence, it is recommended to reject these trials.

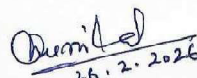
Signatures of all the members



(Dr P.S. Shekhawat)
Plant Pathologist
RARI, Durgapura



(Dr Kavita Bhadu)
Agronomist
RARI, Durgapura


26.2.2026

(Dr Chuni Lal)

Pr. Scientists & PI, Barley,
ICAR-IIWBR, Karnal

Barley Monitoring Report 2025-26
Zone: NWPZ

Period of visit: 9-11 March, 2026

Name of team members:	Name of the centre	Location (Longitude and Latitude)
Dr. Jogendra Singh, Principal Scientist Plant Breeder	ICAR-IIWBR, Karnal	Modipuram, Nagina, Pantnagar and Bulandshahar
Dr. Ravindra Kumar Senior Scientist, Plant Pathology	ICAR-IIWBR, Karnal	

Summary of breeding trials allocated & monitored:

Centre	Trial(s) Allotted	Trials Not Conducted / Rejected	Reason/Remark*
Modipuram	IVT-MB, AVT-MB-NWPZ, IVT-HLB, AVT-HLB-NWPZ, IVT-FB, AVT-FB-NWPZ, IVT-DP, AVT-DP-NWPZ	No	Very good
Pantnagar	IVT-MB, AVT-MB-NWPZ, IVT-HLB, AVT-HLB-NWPZ, IVT-FB, AVT-FB-NWPZ, IVT-DP, AVT-DP-NWPZ	No	Very good
Nagina	IVT-MB, AVT-MB-NWPZ, IVT-HLB, AVT-HLB-NWPZ	No	Very Good
Bulandshahar	IVT-MB, AVT-MB-NWPZ, IVT-HLB, AVT-HLB-NWPZ	No	Very good

**Evaluate trials as very good, good, average and poor based on conduction*

Promising entries in breeding trials across centres-: (Ranking of entries to be done in the booklet)

Trial	Entries	Remarks
IVT-MB	IVT-MB-1, IVT-MB-4, IVT-MB-5, IVT-MB-10	Promising
AVT-MB-NWPZ	AVT-MB-NWPZ-3, AVT-MB-NWPZ-2	Promising
IVT-HLB	IVT-HLB-1, IVT-HLB-11, IVT-HLB-13, IVT-HLB-19, IVT-HLB-20, IVT-HLB-31	Promising
AVT-HLB-NWPZ	AVT-HLB-NWPZ-8	Promising
IVT-FB	IVT-FB-5, IVT-FB-8, IVT-FB-17	Promising
AVT-FB-NWPZ	AVT-FB-NWPZ-2, AVT-FB-NWPZ-3	Promising
IVT-DP	IVT-DP-5, IVT-DP-11, IVT-DP-14, IVT-DP-25	Promising
AVT-DP-NWPZ	AVT-DP-NWPZ - 4	Promising

Entries recommended for purification (Take photograph):

Trial	Entry	Remark
IVT-MB	IVT-MB-14, IVT-MB-21	Up to 4 Off types plants of 6 rowed were observed in the entry

		observed in IVT-MB-21.
AVT-MB-NWPZ	AVT-MB-NWPZ-1	Up to 4 Off types plants of 2-rowed (green spike) were observed in the entry AVT-MB-NWPZ-1
IVT-HLB	IVT-HLB-4, IVT-HLB-7, IVT-HLB-10, IVT-HLB-22, IVT-HLB-23, IVT-HLB-30,	Off types of the 6-rowed type (IVT-HLB-4, IVT-HLB-7, IVT-HLB-10, IVT-HLB-22, IVT-HLB-23) and Off types of spike differences in IVT-HLB-30 were observed.
AVT-HLB-NWPZ	AVT-HLB-NWPZ-6	Up to 4 Off type plants of 6-rowed were observed in the entry AVT-HLB-NWPZ-6.
IVT-FB	IVT-FB-12	Up to 7 Off type plants of 6-rowed of different plant heights were observed in the entry IVT-FB-12.
AVT-FB-NWPZ	AVT-FB-NWPZ-5	Up to 6 Off type plants of 6-rowed were observed in the entry AVT-FB-NWPZ-5.
IVT-DP	-	-
AVT-DP-NWPZ	AVT-DP-NWPZ -1	Up to 5 Off type plants of 2-rowed were observed in the entry AVT-DP-NWPZ-1

Entries recommended to be dropped from further testing:

Trial	Entry	Remark
IVT-MB	IVT-MB-8	Less germination at all locations
	IVT-MB-15	Segregation for spike colour
	IVT-MB-16	Segregation for rudimentary and non-rudimentary of 2-row spikes
	IVT-MB-19	Mixture of rudimentary and non-rudimentary of 2-row spikes
	IVT-MB-25	Mixture of different colour spikes of 2-row.
IVT-HLB	IVT-HLB-6	IVT-HLB-6 has 50: 50 mixture of plant with rudimentary and non-rudimentary spiklets and spike differences
IVT-FB	IVT-FB-16	Mixture of 2 row and 6 row types plants.

Entries exhibiting higher diseases incidence /insect infestation/poor germination/high lodging (Take photograph):

Name of trial	Disease incidence
IVT-MB	Three entries viz; IVT-MB-1 (1%), IVT-MB-6 (1%), IVT-MB-12 (2%) at Modipuram and two entries IVT-MB-20 (1%) and IVT-MB-25 (1%) at Nagina were observed incidence of covered smut whereas no incidence was observed at Pantnagar for covered smut. Three testing entries of IVT-MB namely, IVT-MB-17 (47), IVT-MB-18 (36), and IVT-MB-19 (57) revealed high scores for leaf blight at Nagina while at Pantnagar centre, five malt barley entries viz; IVT-MB-1 (36), IVT-MB-6 (36), IVT-MB-16 (35), IVT-MB-18 (47) and IVT-MB-19 (46) were observed having double digit score (35 to 47).
AVT-MB	Incidences of the Covered smut were recorded 6 - 10% in entries

	at Modipuram and Nagina.
IVT-HLB	IVT-HLB trial showed a wide range of incidence of covered smut (0.1% to 20%) at all four locations. Modipuram: Four entries viz; IVT-HLB-36 (5%), IVT-HLB-27 (7%), IVT-HLB-3 (15%) and IVT-HLB-26 (20%) revealed high score for covered smut. Nagina: Fifteen entries of the hulless barley showed higher incidence of covered smut from 1% to 20%. Out of these, IVT-HLB-10 (3%), IVT-HLB-25(3%), IVT-HLB-3 (5%), IVT-HLB-4 (8%), IVT-HLB-26 (10%), IVT-HLB-29 (10%), IVT-HLB-22 (15%), IVT-HLB-23 (15%) and IVT-HLB-34 (20%) showed higher score for covered smut. At this centre, three testing entries IVT-HLB-7(46), IVT-HLB-10(46) and IVT-HLB-22(58) revealed higher score for leaf blight. Pantnagar: Three test entries showed covered smut score from 3% to 5%. The score was recorded in the entries IVT-HLB-4 (3%), IVT-HLB-34 (5%) and IVT-HLB-26 (10%). Incidence for leaf blight was observed in eight entries viz; IVT-HLB-3 (36), IVT-HLB-7 (47), IVT-HLB-9 (37), IVT-HLB-17 (57), IVT-HLB-20 (46), IVT-HLB-22 (57), IVT-HLB-29 (46) and IVT-HLB-35 (57) which revealed higher score of the leaf blight at this location. Bulandshahar: Covered smut was noted from 1% to 15% in 7 test entries. These entries are IVT-HLB-22 (1%), IVT-HLB-26 (1%), IVT-HLB-4 (3%), IVT-HLB-5 (5%), IVT-HLB-27 (5%), IVT-HLB-26 (10%) and IVT-HLB-29 (15%). No incidence of leaf blight was observed at this location.
AVT-HLB	Modipuram: Three test entries AVT-HLB-1 (1.5%), AVT-HLB-3 (2 %), and AVT-HLB-7 (10%) showed the covered smut incidence whereas no leaf blight was observed at this centre. Nagina: Two test entries AVT-HLB-1 (1%) and AVT-HLB-7 (2%) showed the incidence for covered smut while four entries AVT-HLB-1 (35), AVT-HLB-3 (46), AVT-HLB-4 (58) and AVT-HLB-7 (79) had higher score for leaf blight. Pantnagar: Covered smut was recorded in one entry AVT-HLB-8 (1%), where as leaf blight was found in higher score in four entries AVT-HLB-2 (45), AVT-HLB-3 (35), AVT-HLB-4 (67) and AVT-HLB-7 (99). Bulandshahar: No incidence was observed for covered smut in any entry while two entries AVT-HLB-2 (35) and AVT-HLB-7 (57) showed higher score for leaf blight.
IVT-FB	Pantnagar: No incidence of the covered smut was observed in IVT-FB trial. However, fifteen test entries showed higher score of the leaf blight. These entries are IVT-3 (68), IVT-5 (58), IVT-7 (89), IVT-9(58), IVT-14 (35), IVT-19 (35), IVT-20 (99), IVT-21 (68), IVT-24 (57), IVT-26 (36), IVT-27(47), IVT-29 (36), IVT-30 (68), IVT-31 (35) and IVT-34 (36).
AVT-FB-NWPZ	Pantnagar: Four test entries AVT-FB-NWPZ-2 (47), AVT-FB-NWPZ-3 (36), AVT-FB-NWPZ-4 (57) and AVT-FB-NWPZ-7 (47) revealed higher score for leaf blight.
IVT-DP	Pantnagar: Covered smut was observed in one entry IVT-DP-25 (1%) and leaf blight was found in 13 test entries viz; IVT-DP-1 (35), IVT-DP-2 (46), IVT-DP-4(46), IVT-DP-6 (46), IVT-DP-8 (89), IVT-DP-10 (57), IVT-DP-13 (35), IVT-DP-17 (46), IVT-DP-19 (47), IVT-DP-20 (57), IVT-DP-22 (99), IVT-DP-23 (47) and IVT-DP-25 (36).
AVT-DP-NWPZ	Pantnagar: Two test entries AVT-DP-NWPZ-2 (99) and AVT-DP-NWPZ-4 (47) showed the higher score for leaf blight.

Report on Agronomical Trials:

Centre	Trial(s) allotted and conducted	Remark
Pantnagar	Response of new malt barley genotypes to different sowing times	Trial was conducted according to technical programme and found in good condition.

Report on Pathological Nurseries:

Centre	Nursery	Remark
Pantnagar	IBDSN, NBDSN and EBDSN	All allocated trials were sown and conducted well. IBDSN (with maximum LB 79 score in 773 no.). NBDSN (with maximum LB 57 score in 202 No.). EBDSN (with maximum LB 25 in 12 A no.)

Take the photograph of Infector rows

Farmers Interaction under VKSA during monitoring: No

Location	Number of Farmers Interacted	Remarks

Any other trial (Physiological trial/nucleus seed production/Nurseries)

Special comments, if any (2-3 bullet points only)

❖ High leaf blight score was observed at Pantnagar.

Ravindra Kumar. 20/04/26
(Ravindra Kumar)

Singh
20/4/2026
(Jogendra Singh)

Signatures of all the members

Proforma for Zonal Monitoring Report 2025-26

Zone:NEPZ

Period of visit: 25.02.2026-01.03.2026

Name of team members:	Name of the centre	Location (Longitude and Latitude)
1. Dr Santosh Kumar Bishnoi, Senior Scientist, ICAR-IIWBR, RS Hisar 2. Dr Ravindra Kumar, Senior Scientist, ICAR-IIWBR, Karnal 3. Dr. Nayiar Ali, Senior Agronomist, BAU, Ranchi	BAU, Ranchi	
	BISA, Samastipur,	
	FCRS, Burdhman	

Summary of Breeding trials allocated& monitored:

Centre	Trial(s) Allotted	Trials Not Conducted / Rejected	Reason/Remark*
BAU, Ranchi	IVT-FB, AVT-FB, IVT-DPB, AVT/IVT-Rainfed, IVT-HL, AVT-HL.	Nil	All trials were planted very well; however, there was an issue of low germination and poor tillering in all the trials. It was mainly due to the new land with very low organic matter content.
BISA, Samastipur	IVT-FB, AVT-FB, IVT-DPB, AVT/IVT-Rainfed, IVT-HL, AVT-HL.	Nil	The expressions of all the trials were very good. The disease development i.e. leaf blight was also good. However, entries were also noticed showing very low incidence of Leaf blight, loose smut and covered smut, indicating possibility of disease resistance.
FCRS, Burdhman	AVT-FB, IVT-DPB, AVT/IVT-Rainfed, IVT-HL, AVT-HL	Nil	All the trials were planted timely but there was an issue of forced maturity in all the trials, therefore, the disease data could not be taken.

**Evaluate trials as very good, good, average and poor based on conduction*

Photographs of the trial

Promising entries in breeding trials across centers:- (Ranking of entries to be done in the booklet)

Trial	Entries	Remarks
IVT-FB	IVT-FB 3, 9, 14, 15, 19, 20, 23, 29, 33, 34 and 36	
IVT-HLB	IVT-HLB 1, 4, 5, 6, 7, 11, 13, 14, 16, 17, 18, 19, 20, 21, 24, 27, 28, 29, 30, 31, 32, 34 and 36	
IVT-DP	IVT-DP 2, 3, 4, 8, 9, 11, 12, 15, 16, 19, 21 and 22	
AVT-FB	AVT-FB 3 and 5	
AVT-HLB	AVT-HLB 1, 2, 4, 7 and 9	
AVT/IVT-Rainfed	AVT/IVT-Rainfed 2, 4, 5, 15, and 17	

Entries recommended for purification (Take photograph):

Trial	Entry	Remark
IVT-FB	IVT-FB- 12, 32, 21, 13	Off type plants more than 10 in all four entries.
IVT-HLB	IVT-HLB- 10, 23, 24, 25, 33, 35,	E-10:6R Off types E-23, 24, 33, 35: Lack of uniformity E-25: Off types more than 10
IVT-DPB	IVT-DPB- 3, 6, 18 and 24	E-3, 6 and 24: Off types more than 10 E-18: Off types more than 5
AVT-FB	AVT-FB- 12, 13, 21 and 32	Off types more than 5
AVT-HLB	AVT-HLB- 1 and 9	Off types more than 3
AVT/IVT-Rainfed	AVT/IVT-Rainfed- 9, 11 and 17	E-9: Off types more than 5 E-11: Height difference E-17: Height difference

Entries recommended to be dropped from further testing:

Trial	Entry	Remark
IVT-FB	IVT-FB-22 and 36	Lack of uniformity and poor performance
IVT-HLB	Nil	
IVT-DPB	IVT-DPB-13	Lack of uniformity and poor performance
AVT-FB	Nil	
AVT-HLB	Nil	
AVT/IVT-Rainfed	Nil	

Entries exhibiting higher diseases incidence /insect infestation/poor germination/high lodging (Take photograph):

Trial	Entry (s)	Remarks
IVT-FB	Leaf blight in IVT-FB-1, 8, 9, 10, 18, 20 and 31. Covered smut in IVT-FB-1 (5%), 6 (1%) Loose smut in IVT-FB-21 (1%), 24 (1%),	E-1: Leaf blight 13 E-8: Leaf blight 13 E-9: Leaf blight 35 E-10: Leaf blight 14 E-18: Leaf blight 35 E-20: Leaf blight 47 E-24: Leaf blight 13 E-31: Leaf blight 58
IVT-HLB	Leaf blight in IVT-HLB-19 Covered smut in IVT-HLB-23 (5%), 22 (5%), 26 (20%), 29	E:19 Leaf blight 14

	(2%), 34 (1%), 4 (4%),	
IVT-DPB	Leaf blight in IVT-DPB-5 (0.1%)	E-18: Leaf blight 13 E-6: Leaf blight 26 E-4: Leaf blight 13 E-16: Leaf blight 14 E-12: Leaf blight 14 E-10: Leaf blight 35 E-22: Leaf blight 26 E-7: Leaf blight 14 E-11: Leaf blight 36 E-13: Leaf blight 38 E-20: Leaf blight 34
AVT-FB	Leaf blight in AVT-FB-3, 4 and 6	E-3: Leaf blight 02 E-4: Leaf blight 23 E-6: Leaf blight 13
AVT-HLB	Leaf blight in AVT-HLB-3 and 10 Covered smut in AVT-HLB-3 (1%) Loose smut in AVT-HLB-1 (5%)	E-3: Leaf blight 12 E-10: Leaf blight 24
AVT/IVT-Rainfed	Nil	

Report on Agronomical Trials:

Centre	Trial(s) allotted and conducted	Remark
BAU, Ranchi	- Response of new hull less barley genotypes to different dates and times - Response of new feed barley genotypes to different sowing times - Evaluation of herbicides for broad leaved weed control in barley - Optimizing the sowing time and nitrogen dose in hull less barley	The trials were planted as per the recommendation, however lacked vigor mainly due to new land which was deficit in soil organic matter.

Report on Pathological Nurseries:

Centre	Nursery	Remark

Take the photograph of Infector rows

Farmers Interaction under VKSA during monitoring

Location	Number of Farmers Interacted	Remarks

Any other trial (Physiological trial/nucleus seed production/Nurseries)

Special comments, if any (2-3 bullet points only)

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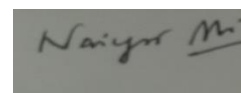
Signatures of all the members



Dr. Santosh Kumar Bishnoi
Sr. Scientist,
ICAR-IIWBR, Hisar



Dr. Ravindra Kumar
Sr. Scientist,
ICAR-IIWBR, Hisar



Dr. Naiyar Ali
Sr. Agronomist
BAU, Ranchi

Monitoring Report of Barley for NEPZ (2025-26)

Period of visit: From 05.03.2026 to 09.03.2026

Name of Team Members & Centers

Name of Team Members	Name of the Centre	Location (Longitude and Latitude)
Dr.Omvir Singh	CSA Kanpur	80.3071, 26.4912
Dr.Vijay Kr. Yadav	ANDUA & T Ayodhya	81.837348, 26.534192
Dr. Girish Goyal	BHU Varanasi	82.990494, 25.267878
Dr.V.P. Chaudhary		

Summary of Breeding Trials Allocated & Monitored

Centre	Trial(s) Allotted	Trials Not Conducted / Rejected	Reason/Remark*
CSA Kanpur	IVT- Hulless Barley	-	Very Good
	AVT- Hulless Barley-	-	Very Good
	IVT-FB		Very Good
	AVT-FB	-	Very Good
	IVT-DP		Very Good
Saini	IVT/AVT -SST		Very Good
Dilipnagar	IVT/AVT-RF		Very Good
NDUA&T Ayodhya	IVT- Hulless Barley	-	Very Good
	AVT- Hulless Barley-	-	Very Good
	IVT-FB		Very Good
	AVT-FB		Very Good
	IVT/AVT-RF		Very Good
	IVT/AVT -SST		Very Good
	IVT-DP		Very Good
BHU., VARANSI	IVT- Hulless Barley	-	Very Good
	AVT- Hulless Barley-	-	Very Good
	IVT-FB		Very Good
	AVT-FB		Very Good
	IVT/AVT-RF		Very Good
	IVT-DP		Very Good

**Evaluate trials as very good, good, average and poor based on conduction*

Promising Entries in Breeding Trials Across Centers (Ranking of entries to be done in the booklet)

Trial	Entries	Remarks
IVT-Feed Barley	NA	NA
AVT-Feed Barley	AVT-FB-3	Excellent
IVT- Hulless Barley	IVT-HB- 10,11 35	Very good
AVT- Hulless Barley	AVT-HB-5,8	Excellent
IVT-Dual Purpose	IVT-DP-NA	NA
IVT/AVT -SST	NA	NA
IVT/AVT-RF	NA	NA

Entries Recommended for Purification (Take Photograph)

Trial	Entry	Remark
IVT-Feed Barley	IVT-FB-14	1plants were off type
AVT-Feed Barley	-	-
IVT- Hulless Barley	IVT-HB-24	2 plants were off type
AVT- Hulless Barley	-	-
IVT-Dual Purpose	IVT-DP-3,9	2 plants were off type
IVT/AVT -SST	NA	NA
IVT/AVT-RF	NA	NA

Entries Recommended to Be Dropped from Further Testing

Trial	Entry	Remark
IVT-Feed Barley	--	--
AVT-Feed Barley	-	-
IVT- Hulless Barley	-	-
AVT- Hulless Barley	-	-
IVT-Dual Purpose	-	-
IVT/AVT -SST	-	-
IVT/AVT-RF	-	-

Entries Exhibiting Higher Disease Incidence / Insect Infestation / Poor Germination / High Lodging (Take Photograph)

Centre	Trial (s) Allotted	Entry	Reason/Remark*
CSA Kanpur	IVT-Feed Barley	9	Covered smut incidence ranged from 10-20%
	AVT-Feed Barley	20	Covered smut incidence was recorded 10-20%
	IVT- Hulless Barley	5	Covered smut incidence was recorded 5-10%
	AVT- Hulless Barley-	11	Covered smut incidence was recorded 8%
	IVT-Dual Purpose	-	-
Saini	IVT/AVT -SST	-	-

Dilipnagar	IVT/AVT-RF	-	-
ANDAUT Ayodhya	IVT- Hulless Barley	6, 8, 17, 23	Covered smut incidence ranged from 5-20%
	AVT- Hulless Barley-	4, 10, 13,	Covered smut incidence ranged from 5-10%
	IVT-FB	-	-
	AVT-FB	-	-
	IVT/AVT-RF	-	-
	IVT/AVT -SST	-	-
	IVT-DP	-	-
		-	-
BHU Varansi	IVT- Hulless Barley	3, 11, 17, 35	Covered smut incidence ranged from 5-10%
	AVT- Hulless Barley	1, 4, 7, 9	Spot blotch score was higher in these entries
	IVT-FB	3.5.10	Spot blotch severity was higher in these entries
	AVT-FB	5 6 8	Spot blotch severity was higher in these entries
	IVT-DP	11.17.20	Spot blotch severity was higher in these entries
	IVT-Dual Purpose	7, 8 15, 11, 12, 19, 20, 25	Spot blotch severity was higher in these entries

Report on Agronomical Trials

Centre	Trial(s) Allotted and Conducted	Remark
CSA Kanpur	IR-SL-LON	Very Good
	IR-TS-HLB-DOS	Very Good
	IR-TS-FB-DOS	Very Good
	SPL-5	Very Good
ANDUAT Ayodhya	IR-SL-LON	Very Good
	IR-TS-HLB-DOS	Very Good
	IR-TS-FB-DOS	Very Good
	SPL-5	Very Good
BHU, Varansi	IR-TS-HLB-DOS	Very Good
	IR-TS-FB-DOS	Very Good

Special Comments

All the trials at all three locations were in a very good condition.


(Omvir Singh)


(Vijay Kr. Yadav)


(Girish Goyal)


(V.P. Chaudhary)

Monitoring Report of Barley for CZ (2025-26)

Period of visit: From 23-2-2026 to 27- 2-20-26

Name of team members:	Name of the centre	Location (Longitude and Latitude)
Dr Lokendra Kumar Dr OP Gupta Dr Bhagat Singh Dr Manmohan Baghel	RVSKV Gwalior	78.197872, 26.232744
	RLBCAU Jhansi	78.551803, 25.516784
	BUAT Banda	80.332141, 25.528906

Summary of Breeding trials allocated& monitored:

Centre	Trial(s) Allotted	Trials Not Conducted / Rejected	Reason/Remark*
RVSKV Gwalior	IVT-Feed Barley	-	Good
	AVT-Feed Barley-CZ	-	Good
	IVT- Hulless Barley	This trial is rejected due to very low plant population	
	AVT- Hulless Barley-CZ	-	Good
	IVT-Dual Purpose	-	Good
RLBCAU Jhansi	IVT- Hulless Barley	-	Very Good
	AVT- Hulless Barley-CZ	-	Very Good
BUAT Banda	IVT-Feed Barley	-	Very good
	AVT-Feed Barley-CZ	-	Very good
	IVT- Hulless Barley	-	Very good
	AVT- Hulless Barley-CZ	-	Very good
	IVT-Dual Purpose	-	Very good

*Evaluate trials as very good, good, average and poor based on conduction

Promising entries in breeding trials across centers:- (Ranking of entries to be done in the booklet)

Trial	Entries	Remarks
IVT-Feed Barley	NA	NA
AVT-Feed Barley-CZ	AVT-FB-3	Excellent
IVT- Hulless Barley	IVT-HB-9,28,35	Very good
AVT- Hulless Barley-CZ	AVT-HB-5,9	Excellent
IVT-Dual Purpose	IVT-DP-7,22	Very-2 good

Entries recommended for purification (Take photograph):

Trial	Entry	Remark
IVT-Feed Barley	IVT-FB-19	4 plants were off type
AVT-Feed Barley-CZ	-	-
IVT- Hulless Barley	IVT-HB-26	3 plants were off type
AVT- Hulless Barley-CZ	-	-
IVT-Dual Purpose	IVT-DP-6,15	2-3 plants were off type

Entries recommended to be dropped from further testing:

Trial	Entry	Remark
IVT-Feed Barley	IVT-FB-7, IVT-FB-22	Mixture of tall & dwarf, waxy & nonwaxy spikes
AVT-Feed Barley-CZ	-	-
IVT- Hulless Barley	-	-
AVT- Hulless Barley-CZ	-	-
IVT-Dual Purpose	-	-

Entries exhibiting higher diseases incidence /insect infestation/poor germination/high lodging (Take photograph):

Centre	Trial(s) Allotted	Entry	Reason/Remark*
RVSKV Gwalior	IVT-Feed Barley	9, 12, 31	Covered smut incidence ranged from 5-20%
	AVT-Feed Barley-CZ	20	Covered smut incidence was recorded 20%
	IVT- Hulless Barley	5	Covered smut incidence was recorded 10%
	AVT- Hulless Barley-CZ	11	Covered smut incidence was recorded 8%
	IVT-Dual Purpose	-	-
RLBCAU Jhansi	IVT- Hulless Barley	2, 4, 6, 10, 22, 23, 34, 36	Covered smut incidence ranged from 5-50% (Note: Entry no 34, CV incidence was recorded 70%)
	AVT- Hulless Barley-CZ	10, 11, 13	Covered smut incidence ranged from 5-20%
BUAT Banda	IVT-Feed Barley	3, 7, 20, 24, 29	Spot blotch severity was higher in these entries
	AVT-Feed Barley-CZ	-	
	IVT- Hulless Barley	4, 10, 26, 29, 34	Covered smut incidence ranged from 10-30%
	AVT- Hulless Barley-CZ	1, 3, 4, 5, 6, 11	Spot blotch severity was higher in these entries
	IVT-Dual Purpose	3, 15, 7, 8, 10, 11, 13, 19, 22, 25	Spot blotch severity was higher in these entries

Report on Agronomical Trials:

Centre	Trial(s) allotted and conducted	Remark
RVSKV Gwalior	IR-TS-HLB-DOS:- Response of new hulless barley genotypes to different sowing time	The trial was conducted properly; however, poor plant stand was observed in the second date of sowing (D2) in some of the entries.
	SPL-5:- Evaluation of herbicides for broad-leaved weed control in barley	The trial was conducted under very good conditions, and the effect of the various treatments was clearly observed.

Report on Pathological Nurseries: NA

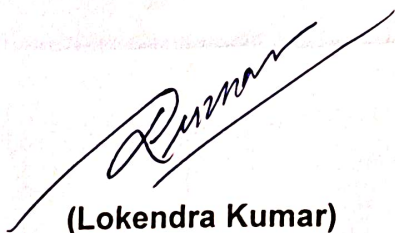
Centre	Nursery	Remark

Farmers Interaction under VKSA during monitoring

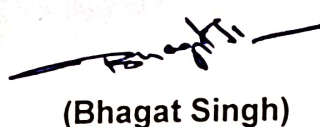
Location	Number of Farmers Interacted	Remarks
BUAT Banda	250	A lecture on "Health benefits of hulless barley and its scope in Bundelkhand region" was delivered during the inaugural session of Kisan Mela at BUAT, Banda

Special comments, if any (2-3 bullet points only)

- All the trials at all three locations were in a very good condition except IVT-Hulless trial at the Gwalior center. At this center, the germination of most of the entries in IVT-Hulless barley trial was extremely poor. Hence, the monitoring team rejected this trial on the basis of very poor plant stand.


(Lokendra Kumar)


(OP Gupta)


(Bhagat Singh)


(Man Mohan Baghel)