

AICRP on Wheat and Barley

Crop Improvement

Work Plan 2026-27

(Yield Trials)

**ICAR – Indian Institute of Wheat & Barley Research,
Karnal (Haryana)**

Criteria for Promotion/Retention of entries in the Coordinated Wheat Varietal Trials

The varieties qualifying for promotion/retention, besides being high yielding as compared to the best check varieties, should possess adequate degree of resistance to rusts and other diseases of regional importance and good nutritional and processing qualities.

(I) Yield

Varieties which are significantly superior at 10% level of statistical significance to best performing check of the trial in AVT and best zonal check in NIVT/IVT will be considered for promotion/retention.

(II) Resistance to diseases

A. Rusts:

Varieties qualifying from yield point of view must have adequate degree of resistance to rusts under both natural as well as artificial conditions of infection. The average coefficient of infection (ACI) for each of the rusts of importance in the particular zones should be considered in respect of varieties qualifying in yield criteria. Important rusts in each zone are as follows:

NHZ&NWPZ: Yellow and Brown; NEPZ: Brown and Yellow
CZ&PZ: Black and Brown

When data of rusts from centres is not sufficient to calculate ACI, the intensity of susceptibility to rusts should be considered. Varieties having reaction marked with an asterisk should be given benefit of doubt for susceptibility to that particular rust and thus may be considered suitable for promotion/retention.

Disease Criteria for Promotion/Retention of Varieties

Varieties qualifying for yield	Reaction to rusts of importance in the zone			
	ACI value available	ACI not available		Varieties marked with asterisk
	Natural / PPSN/IPPSN	Natural	PPSN	Natural conditions/PPSN
Varieties significantly Superior in yield to the best check	Upto 20.0	Upto 60S	Maybe ignored	To be retained/promoted
Varieties at par in yield to the best check	Upto 15.0			

B. Other diseases

Due weightage should be given to other diseases of regional importance such as *leaf blight for NEPZ and Karnal bunt for NWPZ* and varieties with extreme susceptibility shall be avoided from advancement/retention. Varieties at par in yield but showing resistance to wheat blast disease would be promoted/retained.

(III) Grain Quality

Varieties qualifying for yield and disease resistance criteria should have at least 10% protein on dry matter basis. Any such variety having less than 10% protein should not be retained/promoted.

Varieties having at par yield to the best check and possessing at least two defined quality traits (as per benchmarks recommended by PI-Quality) shall be considered for promotion/retention.

National Initial Varietal Trial

NIVT-1A-IR-TS-TAS, 2026-27

Conducting centres

Zone	No.	Centres
NWPZ	9	Delhi, Ludhiana, Gurdaspur, Hisar, Karnal, Pantnagar, Modipuram, Sriganganagar, Durgapura
NEPZ	6	Kanpur, Ayodhya, Varanasi, Sabour, Ranchi, Coochbehar
Total	15	

Details of trial entries

SN	Contributing Centres	No. of Entries	Name of entries
1.	IARI, Delhi	5	HD3545, HD3546, HD3547, HD3548, HD3549
2.	IIWBR, Karnal	5	DBW540, DBW541, DBW542, DBW543, DBW544
3.	Ludhiana	5	PBW 1020, PBW 1021, PBW 1022, PBW 1023, PBW 1024
4.	Pantnagar	3	UP 3184, UP 3185, UP 3186
5.	Durgapura	3	Raj 4608, Raj 4609, Raj 4610
6.	Hisar	2	WH 1373, WH 1374
7.	Ayodhya	1	NW8149
8.	Kanpur	1	K 2601
9.	Varanasi	1	HUW870
10.	CSSRI, Karnal	1	KRL 2511
11.	Jammu	1	JAUW748
12.	Modipuram	1	SVPWL25-01
13.	Sabour	1	BRW4016
14.	Private Seed	2	KGW37, IFSA Wheat 01 (IFSA 552)
	Checks	4	DBW 222, DBW386, PBW826, HD3386
	Total	36	

Experimental details

Design	:	Simple Lattice
Replication	:	Two
Plot size	:	6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	:	150:60:40 (N:P:K)
Time of sowing	:	November 1-15
Seed requirement	:	7.0 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director.

National Initial Varietal Trial

NIVT-1B-IR-TS-TAS, 2026-27

Conducting centres

Zone	No.	Centres
NWPZ	8	Delhi, Ludhiana, Gurdaspur, Hisar, Karnal, Bulandshahr, Sriganaganagar, Durgapura
NEPZ	7	Kanpur, Ayodhya, Varanasi, Sabour, Prayagraj, Ranchi, Kalyani
Total	15	

Details of trial entries

SN	Contributing centres	No. of Entries	Name of entries
1.	IARI, Delhi	5	HD3550, HP1989, HD3551, HD3552, HD3553
2.	IIWBR, Karnal	5	DBW545, DBW546, DBW547, DBW548, DBW549
3.	Ludhiana	5	PBW 1025, PBW 1026, PBW 1027, PBW 1028 PBW 1029
4.	Pantnagar	2	UP 3187, UP 3188
5.	Ayodhya	2	NW8150, NW8152
6.	Hisar	2	WH 1375, WH 1376
7.	Kanpur	2	K 2603, K 2604
8.	Sabour	2	BRW4023, BRW4031
9.	Durgapura	1	Raj 4611
10.	Varanasi	1	HUW871
11.	Kalyani	1	BCW 67
12.	Modipuram	1	SVPWL25-02
13.	Coochbehar	1	UBW 30
14.	Pvt. Seed	3	AAPL111, SAW2505, RW19-02 (Rasi Sartaj)
	Checks	3	DBW222, DBW386, PBW826
	Total	36	

Experimental details

Design	:	Simple Lattice
Replication	:	Two
Plot size	:	6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	:	150:60:40 (N:P:K)
Time of sowing	:	November 1-15
Seed requirement	:	7.0 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

National Initial Varietal Trial

NIVT-2-IR-TS-TAS, 2026-27

Conducting centres

Zone	No.	Centres
CZ	10	Indore, Powarkheda, Jabalpur, Sagar, Gwalior, Bilaspur, Junagadh, Vijapur, SK Nagar, Udaipur
PZ	7	Niphad, Pune, Akola, Dhule, Parbhani, Dharwad, Nippani
Total	17	

Details of trial entries

SN	Contributing Centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HI1728, HI1729, HI1730, HD3554
2.	Pune	3	MACS 6929, MACS 6931, MACS 6923
3.	Vijapur	3	GW 586, GW 587, GW 588
4.	IIWBR, Karnal	2	DBW550, DBW551
5.	Dharwad	2	UAS 3045, UAS 3047
6.	Jabalpur	2	JWJ 3644, JWJ 3663
7.	Niphad	2	NAIW 4912, NIAW 4927
8.	Powarkheda	2	MP 1421, MP1422
9.	Junagadh	2	GJW 1115, GJW 1116
10.	Udaipur	2	PWU 54, PWU 153
11.	Ludhiana	1	PBW 1030
12.	Durgapura	1	Raj 4612
13.	Bilaspur	1	CG 1061
14.	Akola	2	AKAW-4764, AKAW-4981
15.	Hisar	1	WH 1377
16.	BARC, Mumbai	1	DTAW-2501
17.	Pvt.	2	SAW2503, DW110
	Checks	3	GW322, MACS6222, GW555
Total		36	

Experimental Details

Design	:	Simple Lattice
Replication	:	Two
Plot size	:	6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	:	120:60:40 (N:P:K)
Time of sowing	:	November5-15
Seed requirement	:	7.0 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

National Initial Varietal Trial
NIVT-3A-IR-LS-TAS, 2026-27

Conducting centres

Zone	No.	Centres
NWPZ	9	Delhi, Jammu, Ludhiana, Gurdaspur, Hisar, Karnal, Pantnagar, Durgapura, Modipuram
NEPZ	10	Kanpur, Ayodhya, Varanasi, Sabour, RPCAU-Pusa, Ranchi, Kalyani, Coochbehar, Burdwan, Shillongani
Total	19	

Details of trial entries

SN	Contributing centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HD3555, HD3556, HD3557, HD3558
2.	IIWBR, Karnal	5	DBW552, DBW553, DBW554, DBW555, DBW556
3.	Ludhiana	5	PBW 1031, PBW 1032, PBW 1033, PBW 1034, PBW 1035
4.	Hisar	3	WH 1380, WH 1381, WH 1382
5.	Kanpur	2	K 2606, K 2607
6.	Durgapura	2	Raj 4613, Raj 4614
7.	Ayodhya	2	NW 8158 (Yellow rust ACI>20 in IPPSN), NW 8163
8.	Pantnagar	2	UP 3189, UP 3190
9.	Coochbehar	1	UBW 29
10.	Sabour	1	BRW4015
11.	Varanasi	1	HUW872
12.	Kalyani	1	BCW 70
13.	Modipuram	1	SVPWL25-10
14.	Banda	1	BUBW-8
15.	RPCAU, Pusa	1	
	Checks	4	PBW771, HD3428, PBW833, HI1621
Total		36	

Experimental Details

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.08m (6 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N:P:K)
Time of sowing	: December5-15
Seed requirement	: 7.0 kg per entry

Note: Change in test sites, date of sowing, trial entries, etc. will be invalid if not approved by the Director

National Initial Varietal Trial

NIVT-3B-IR-LS-TAS, 2026-27

Conducting centres

Zone	No.	Centres
CZ	9	Indore, Powarkheda, Jabalpur, Gwalior, Bilaspur, Junagadh, Vijapur, SK Nagar, Lok-Bharti
PZ	8	Dharwad, Niphad, Akola, Pune, Bagalkot, Dhule, Nippani, Parbhani
Total	17	

Details of trial entries

SN	Contributing centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HI1731, HI1732, HD3559, HD3560
2.	IIWBR, Karnal	2	DBW557, DBW558
3.	Dharwad	2	UAS 3048, UAS 3049
4.	Jabalpur	2	JWJ 3646, JWJ 3649
5.	Niphad	2	NIAW 4937, NIAW 5045
6.	Pune	2	MACS 6941, MACS 6940
7.	Vijapur	1	GW 589
8.	Akola	1	AKAW-5576
9.	Bilaspur	1	CG1062
10.	Hisar	1	WH 1383 (Black rust ACI >20)
11.	Junagadh	1	GJW 1117
12.	Lok Bharti	1	Lok-88
13.	Ludhiana	1	PBW 1036
14.	Powarkheda	1	MP 1423
	Checks	3	HD2932, HI1683(I), HI1687(I)
Total		25	

Experimental Details

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.08m (6 rows)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: December 5-15
Seed requirement	: 7.0 kg per entry
Note: Change in test sites, date of sowing, trial entries, etc. will be invalid if not approved by the Director	

National Initial Varietal Trial
NIVT-4-IR-TS-TDM, 2026-27

Conducting Centres

Zone	No.	Centres
NWPZ	6	Delhi, Ludhiana, Hisar, Karnal, Pantnagar, Sriganaganagar
CZ	7	Powarkheda, Indore, Junagadh, Gwalior, Vijapur, Udaipur, Dhandhuka
PZ	6	Dharwad, Bagalkot, Nippani, Niphad, Pune, Akola
Total	19	

Details of trial entries

SN	Contributing Centres	No. of Entries	Name of entries
1.	IARI, Delhi	3	HI8872, HI8873, HI8874
2.	IIWBR, Karnal	1	DDW74
3.	Niphad	2	NIDW 1597, NIDW 1603
4.	Dharwad	2	UAS 494, UAS 495
5.	Ludhiana	2	PDW 373, PDW 374
6.	Powarkheda	2	MPO 1424, MPO 1425
7.	Pune	2	MACS4172, MACS4171
8.	Vijapur	2	GW 1380, GW 1381
9.	Hisar	1	WHD 972
10.	Udaipur	1	PWU 116
11.	Junagadh	1	GJW 2223
12.	Parbhani	1	PBND 0833
13.	Akola	1	AKDW-5550
14.	Jhansi	1	RLBDW 9
15.	Checks	3	MACS4135(I), HI8849(I), PDW314
Total		25	

Experimental Details

Design	:	Simple Lattice
Replication	:	Two
Plot size	:	6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	:	120:60:40 (N:P:K)
Time of sowing	:	November 5-15
Seed requirement	:	7.0 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

National Initial Varietal Trial
NIVT-5A-RI-TS-TAS, 2026-27

Conducting centres

Zone	No.	Centres
NWPZ	10	Delhi, Jammu, Gurdaspur, Ludhiana, Hisar, Karnal, Sriganaganagar, Modipuram, Bulandshahr, Durgapura
NEPZ	9	Kanpur, RPCAU-Pusa, Varanasi, Sabour, Ranchi, Kalyani, Coochbehar, Burdwan, Shillongani
Total	19	

Details of trial entries

SN	Contributing Centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HD3561, HD3562, HD3563, HD3564
2.	IIWBR, Karnal	4	DBW559, DBW560, DBW561, DBW562
3.	Ludhiana	4	PBW 1037, PBW 1038, PBW 1039, PBW 1040
4.	Pantnagar	2	UP 3191
5.	Hisar	2	WH 1384, WH 1385
6.	Kanpur	2	K 2610
7.	Ayodhya	2	NW 8161
8.	Varanasi	2	HUW873
9.	Sabour	2	BRW4037
10.	Jammu	1	JAUW752
11.	Modipuram	1	SVPWL25-03
12.	Coochbehar	2	
13.	Kalyani	1	
14.	RPCAU, Pusa	2	
15.	BARC, Mumbai	1	DTAW2505
	Checks	4	HI1612, HD3293, HI1653, NIAW3170
Total		36	

Experimental Details

Design	:	Simple Lattice
Replication	:	Two
Plot size	:	6 x 1.20m (6 rows)
Irrigations	:	Two (pre-sowing & one irrigation at 45-50 DAS)
Fertilizer dose (kg/ha)	:	90:60:40(N:P:K)
Time of sowing	:	Oct. 25 - Nov. 5
Seed requirement	:	7.0 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

National Initial Varietal Trial
NIVT-5B-RI-TS-TAD, 2026-27

Conducting centres

Zone	No.	Centres
CZ	10	Indore, Sagar, Jabalpur, Bilaspur, Udaipur, Vijapur, SK Nagar, Junagadh, Dhandhuka, Powarkheda
PZ	7	Dharwad, Nippani, Niphad, Pune, Dhule, Akola, Parbhani
Total	17	

Details of trial entries

SN	Contributing Centres	No. of Entries	Name of entries
1.	Delhi	5	HI1733, HI8875(d), HI8876(d), HI1734, HD3565
2.	IIWBR, Karnal	2	DBW563, DBW564
3.	Dharwad	2	UAS 496(d), UAS 3050
4.	Niphad	2	NIAW 4925, NIAW 4935
5.	Vijapur	2	GW 590, GW 1382(d)
6.	Akola	1	AKAW-5559
7.	Bilaspur	1	CG1063
8.	Jabalpur	1	JWJ 3647
9.	Sagar	1	JWS 1707
10.	Powarkheda	1	MP 1426
11.	Pune	2	MACS 6930, MACS 6946
12.	Parbhani	1	PBN 0169
13.	Banda	1	BUDW-6 (d)
	Checks	3	DBW359, HI8851(D)(I), NIDW1149(D)
	Total	25	

Experimental Details

Design	:	Simple Lattice
Replication	:	Two
Plot size	:	6 x 1.20m (6 rows)
Irrigations	:	Two (1 pre-sowing & one irrigation at 40-45 DAS) (Limit of 3 irrigations in Gujarat)
Fertilizer dose (kg/ha)	:	90:60:40(N:P:K)
Time of sowing	:	Oct. 25 – Nov.05
Seed requirement	:	7.0 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

National Initial Varietal Trial
NIVT-6-ES-IR-NWPZ/CZ, 2026-27

Trial conducting centres

Zone	No.	Centres
NWPZ	7	Delhi, Ludhiana, Ladowal, Hisar, Karnal, Bulandshahr, Sriganaganagar
CZ	7	Indore, Powarkheda, Jabalpur, BISA-Jabalpur, Bilaspur, Junagadh, Vijapur
Total	14	

Details of test entries

Contributing Centres	No. of entries	Name of entries
Delhi	4	HD3566, HD3567, HD3568, HI1735
Ludhiana	5	PBW 1015, PBW 1016, PBW 1017, PBW 1018, PBW 1019
IIWBR-Karnal	5	DBW565, DBW566, DBW567, DBW568, DBW569
Hisar	2	WH 1378, WH 1379
Pantnagar	1	UP 3192
Vijapur	1	GW 591
Junagadh	1	GJW 1118
Powarkheda	1	MP 1427
Bilaspur	1	CG1064
Pvt.	1	IFSA Wheat 02 (Gaurav)
Checks	3	DBW327, PBW872, HD3463(I)
Total	25	

Experimental details

Design	:	Simple Lattice (5x5)
Replications	:	Two
Plot size	:	6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	:	150% RFD+ FYM15 t/ha+ Growth Regulators*
Time of sowing	:	NWPZ: Oct. 25 – Nov.5; CZ: Nov 1-10
Seed requirement	:	6 Kg per entry

* **Note:** Two sprays as tank mix-Chlormequat chloride @ 0.2%+ tebuconazole @ 0.1% of commercial product dose at First Node and Flag leaf (Tank mix application). Use 400 l/ha of water for spraying.

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Northern Hills Zone
Initial Varietal Trial, 2026-27
IVT-RF-TS-TAS

Trial conducting centres

State	Centres	Name of the centres
Himachal Pradesh	3	Malan, Shimla, Bajaura
Uttarakhand	3	Almora, Majhera, Gaja
J&K	2	Khudwani, Wadura
Manipur	1	Imphal
Total	9	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IARI, Shimla	6	HS725, HS726, HS727, HS728, HS729 HS730
CSKHPKV, Malan	6	HPW 525, HPW 526, HPW 527, HPW 528, HPW 529, HPW 530
VPKAS, Almora	6	VL 2073, VL 2074, VL 2075, VL 2076, VL 2077, VL 2078
GBPUA&T, Pantnagar	2	UP 3193, UP 3194
Checks	3	HS507, HS562, VL907
Total	23	

Experimental details

Design	: R.B.D.
Replications	: Four
Plot size	: 3.5 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	: 60:30:20 (N:P:K)
Time of sowing	: Oct. 15-31
Seed rate (kg/ha)	: 100
Seed requirement	: 5 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Northern Hills Zone
Advance Varietal Trial, 2026-27
AVT-RF-TS-TAS

Trial conducting centres

State	Centres	Name of the centres
Himachal Pradesh	3	Malan, Shimla, Bajaura
Uttarakhand	3	Almora, Majhera, Gaja
J&K	2	Khudwani, Wadura
Manipur	1	Imphal
Total	9	

Details of test entries

Contributing Centres	No. of entries	Name of entries
VPKAS, Almora	3	VL2061*, VL2063 *,VL2067
Shimla	1	HS719
CSKHPKV, Malan	3	HPW514, HPW515, HPW519
Checks	4	HS507, HS562, VL907, VL2041
Total	11	

Experimental details

Design	:	R.B.D.
Replications	:	Six
Plot size	:	3.5 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	:	60:30:20 (N:P:K)
Time of sowing	:	October 15-31
Seed rate (kg/ha)	:	100
Seed requirement	:	5 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Northern Hills Zone
Advance Varietal Trial, 2026-27
IVT-RI-LS-TAS

Trial conducting centres

State	Centres	Name of the centres
Himachal Pradesh	3	Shimla, Malan, Bajaura
Uttarakhand	3	Almora, Majhera, Gaja
Manipur	1	CAU-Imphal
Total	7	

Details of test entries

Contributing Centres	No. of entries	Name of entries
CSKPHKV, Malan	3	HPW 531, HPW 532, HPW 533
IARI, RS, Shimla	3	HS731, HS732, HS733
VPKAS, Almora	3	VL 3044, VL 3045, VL 3046
Checks	2	VL892, HS490, + Identified
Total	11	

Experimental details

Design	:	R.B.D.
Replications	÷	Four
Plot size	:	3.5 x 1.08m (6 rows)
Fertilizer dose (kg/ha)	:	90:60:40 (N:P:K)
Time of sowing	:	December 1-15
Seed rate (kg/ha)	:	125
Seed requirement	:	4 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Northern Hills Zone
Advance Varietal Trial, 2026-27
IVT/AVT-VHA-RF-TS

Trial conducting centres

State	Centres	Name of the centres
Himachal Pradesh	2	Dalang- Maidan, Kukumseri
Ladakh (UT)	2	Leh, Kargil
Total	4	

Details of test entries

Contributing Centres	No. of entries*	Name of entries
IARI, RS, Shimla	2	HS734, HS735
VPKAS, Almora	2	VL 2075, VL 3046
Checks	2	HS375, HS490
Total	6	

*May include any promoted entry

Experimental details

Design	:	R.B.D.
Replications	:	Six
Plot size	:	3.5 x 1.08m (6 rows)
Fertilizer dose (kg/ha)	:	60:30:20 (N:P:K)
Time of sowing	:	April-May, 2027
Seed rate (kg/ha)	:	100
Seed requirement	:	4 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

North Western Plains Zone
Advance Varietal Trial, 2026-27
AVT-IR-TS-TAS

Trial conducting centres

State	No.	Centres
Punjab	2	Ludhiana, Gurdaspur
Haryana	3	Hisar, Karnal, Bawal
Rajasthan	2	Sriganganagar, Durgapura
Uttar Pradesh	3	Bulandshahr, Modipuram, Nagina
Uttarakhand	1	Pantnagar
J & K	1	Jammu
Delhi	1	Delhi
Total	13	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	1	DBW513
IARI, Delhi	1	HD3570 ^M
BAU, Sabour	1	BRW4000 ^Q
PAU, Ludhiana	3	PBW992, PBW995, PBW997
CSAUA&T, Kanpur	1	K2503
Checks	3	DBW222, PBW826, HD3386
Total	10	

^M MABB entry, ^Q:Superior grain quality

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	150:60:40 (N:P:K)
Time of sowing	:	November 1-15
Seed rate (kg/ha)	:	100
Seed requirement	:	16 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

North Western Plains Zone
Advance Varietal Trial, 2026-27
AVT-IR-TS-TDM

Trial conducting centres

State	No.	Centres
Punjab	2	Ludhiana, Gurdaspur
Haryana	2	Hisar, Karnal,
Rajasthan	2	Sriganganagar,Durgapura
Uttar Pradesh	3	Bulandshahr, Modipuram, Nagina
Uttarakhand	1	Pantnagar
Delhi	1	Delhi
Total	11	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IARI, Indore	1	HI8859*(d)
Checks	4	PDW314, PDW291, WHD943, HD3386 (aest.)
Total	5	

* denotes final year entry,

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	150:60:40 (N:P:K)
Time of sowing	:	November 1-15
Seed rate (kg/ha)	:	100
Seed requirement	:	16 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

North Western Plains Zone
Advance Varietal Trial, 2026-27
AVT-IR-LS-TAS

Trial conducting centres

State	No.	Centres
Punjab	2	Ludhiana, Gurdaspur
Haryana	2	Hisar, Karnal
Rajasthan	1	Durgapura
Uttar Pradesh	3	Nagina, Bulandshahr, Modipuram
Uttarakhand	1	Pantnagar
J & K	1	Jammu
Delhi	1	Delhi
Total	11	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	5	HD3505*, HD3507*, HD3508* ^Q , HD3529, HD3569 ^M
PAU, Ludhiana	3	PBW979*, PBW980*, PBW1005
IIWBR, Karnal	2	DBW495*, DBW524
CCSHAU, Hisar	3	WH1353*, WH1355*, WH1368
CSAUA&T, Kanpur	1	K2507
Checks	6	PBW771, HD3428, HI1621, DBW173, JKW261, HD3059
Total	20	

* denotes final year entry, ^Q:Superior grain quality ^MMABB entry

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.16m (12 rows)
Fertilizer dose (kg/ha)	:	120:60:40 (N:P:K)
Time of sowing	:	December 5-15
Seed rate (kg/ha)	:	125
Seed requirement	:	16 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. Will be invalid if not approved by the Director

**North Western Plains Zone
Advance Varietal Trial, 2026-27
AVT-RI-TS-TAS**

Trial conducting centres

State	No.	Centres
Punjab	2	Ludhiana, Gurdaspur
Haryana	3	Hisar, Karnal, Bawal
Uttar Pradesh	3	Modipuram, Nagina, Bulandshahr
Rajasthan	2	Sriganganagar, Durgapura
Uttarakhand	1	Pantnagar
J&K	1	Jammu
Delhi	1	Delhi
Total	13	

Details of test entries

Contributing Centres	No. of entries	Name of entries
SKUAST, Jammu	1	JAUW742
SVPUA&T, Meerut	1	SVPWL2409
BHU, Varanasi	1	HUW868
IIWBR, Karnal	1	DBW530
Checks	4	PBW644, NIAW3170, DBW296, HI1653
Total	8	

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Irrigations	:	Two (pre-sowing & one irrigation at 45-50 DAS)
Fertilizer dose (kg/ha)	:	90:60:40 (N:P:K)
Time of sowing	:	Oct. 25 – Nov. 5
Seed rate (kg/ha)	:	100
Seed requirement	:	18 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**North Western Plains Zone
Advance Varietal Trial, 2026-27
AVT-IR-ES-TAS**

Trial conducting centres

Zone	No.	Centres
NWPZ	7	Delhi, Ludhiana, Ladowal, Hisar, Karnal, Modipuram, Sriganganagar
Total	7	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	1	DBW538
Checks	4	WH1270, DBW327, DBW372, PBW 872
Total	5	

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	150% RFD+ FYM15 t/ha+ Growth Regulators*
Time of sowing	:	Oct. 25– Nov. 5
Seed rate (kg/ha)	:	100
Seed requirement	:	12 Kg per entry

*** Note:** Two sprays as tank mix-Chlormequat chloride @ 0.2%+ tebuconazole @ 0.1% of commercial product dose at First Node and Flag leaf (Tank mix application). Use 400L/ha of water for spraying

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**North Eastern Plains Zone
Advance Varietal Trial, 2026-27
AVT-IR-TS-TAS**

Trial conducting centres

State	No.	Centres
Uttar Pradesh	4	Kanpur, Prayagraj, Ayodhya, Varanasi
Bihar	2	Sabour, RPCAU-Pusa
West Bengal	3	Coochbehar, Kalyani, Burdwan
Jharkhand	2	Ranchi, Dumka
Assam	1	Shillongani
Total	12	

Details of test entries

Contributing Centres	No. of entries	Name of entries
BAU, Sabour	1	BRW4000
UBKV, Coochbehar	1	UBW27 ^Q
Checks	4	DBW187, DBW386, PBW826, PBW915
Total	6	

* denotes final year entry ^Q:Superior grain quality

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	150:60:40 (N:P:K)
Time of sowing	:	November 1-15
Seed rate (kg/ha)	:	100
Seed requirement	:	18 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**North Eastern Plains Zone
Advance Varietal Trial, 2026-27
AVT-IR-LS-TAS**

Trial conducting centres

State	No.	Centres
Uttar Pradesh	4	Kanpur, Prayagraj, Ayodhya, Varanasi
Bihar	2	Sabour, RPCAU-Pusa
West Bengal	4	Coochbehar, Kalyani, Burdwan, Manikchak
Jharkhand	1	Ranchi
Assam	1	Shillongani
Total	12	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	1	HD3505*
IIWBR, Karnal	2	DBW491*, DBW522
BAU, Sabour	1	BRW4009
UBKV, Coochbehar	1	UBW28
BAU, Ranchi	1	JKW337
PAU, Ludhiana	1	PBW1003
Checks	6	HI1563, HD3118, PBW771, HD3428, HI1621, PBW833
Total	13	

* denotes final year entry

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.16m (12 rows)
Fertilizer dose (kg/ha)	:	120:60:40 (N:P:K)
Time of sowing	:	December 5-15
Seed rate (kg/ha)	:	125
Seed requirement	:	22 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**North Eastern Plains Zone
Advance Varietal Trial, 2026-27
AVT-RI-TS-TAS**

Trial conducting centres

State	No.	Centres

Details of test entries

Contributing Centres	No. of entries	Name of entries
Total		

Experimental details

Design	:	
Replications	:	
Plot size	:	
Irrigation	:	
Fertilizer dose (kg/ha)	:	
Time of sowing	:	
Seed rate (kg/ha)	:	
Seed requirement	:	

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Central Zone
Advance Varietal Trial, 2026-27
AVT-IR-TS-TAS

Trial conducting centres

State	No.	Centres
Gujarat	4	Vijapur, SK Nagar, Junagadh, Dhandhuka
Madhya Pradesh	6	Jabalpur, Sagar, Gwalior, Powarkheda, Indore, Jhansi
Chhattisgarh	2	Bilaspur, Raipur
Rajasthan	1	Udaipur
UP	1	Banda
Total	14	

Details of test entries

Contributing Centres	No. of entries	Name of entries
ARS, Niphad	1	NIAW4828 ^Q
IARI, Delhi	1	QBP2512(QCBWN)
IARI, Indore	1	HI1716
SDAU, Vijapur	2	GW569*, GW575(QCBWN)
PAU, Ludhiana	1	PBW1001 ^Q
Lok Bharti	1	LOK86 ^Q
Checks	3	GW322, MACS6768, MACS6222
Total	10	

* denotes final year entry, ^Q:Superior grain quality

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	120:60:40 (N:P:K)
Time of sowing	:	November 5-15
Seed rate (kg/ha)	:	100
Seed requirement	:	18 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Central Zone
Advance Varietal Trial, 2026-27
AVT-IR-TS-TDM

Trial conducting centres

State	No.	Centres
Gujarat	4	Vijapur, SK Nagar, Junagadh, Dhandhuka
Madhya Pradesh	6	Jabalpur, Sagar, Gwalior, Powarkheda, Indore, Jhansi
Chhattisgarh	2	Bilaspur, Raipur
Rajasthan	1	Udaipur
UP	1	Banda
Total	14	

Details of test entries

Contributing Centres	No. of entries	Name of entries
ARI, Pune	2	MACS4163(d), MACS4167(d)
ARS, Niphad	2	NIDW1585(d), NIDW1590(d) ^Q
IARI, Indore	5	HI8861(d)*, HI8865*(d) ^Q , HI8866(d), HI8867(d), HI8868(d)
SDAU, Vijapur	2	GW1377(d), GW1378(d)
JAU, Junagadh	1	GJW2222(d)
Parbhani	1	PBND0833(d)
JNKVV, Powerkheda	1	MPO1417(d)
MPUAT, Udaipur	1	PWU87(d)
Dharwad	1	UAS491(d)
Jhansi	1	RLBDW03(d) ^Q
Checks	3	HI8713(d), HI8737(d), MACS4135(I)(D),
Total	20	

* denotes final year entry, ^Q:Superior grain quality

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	120:60:40 (N:P:K)
Time of sowing	:	November 5-15
Seed rate (kg/ha)	:	100
Seed requirement	:	18 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Central Zone
Advance Varietal Trial, 2026-27
AVT-IR-LS-TAS

Trial conducting centres

State	No.	Centres
Gujarat	4	Vijapur, SK Nagar, Junagadh, Lok-Bharti
Madhya Pradesh	4	Jabalpur, Gwalior, Powarkheda, Indore
Chhattisgarh	2	Bilaspur, Raipur
UP	1	Banda
Total	11	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IARI, Indore	2	HI1719, HI1720 ^Q ,
SDAU, Vijapur	1	GW583,
IIWBR, Karnal	1	DBW527 ^Q ,
JAU, Junagadh	1	GJW1113,
UAS, Dharwad	1	UAS3042 ^Q
Checks	3	HD2932, GW556, HI1683
Total	9	

* denotes final year entry ^Q:Superior grain quality

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6m x 2.16m (12 rows)
Fertilizer dose (kg/ha)	:	90:60:40 (N:P:K)
Time of sowing	:	Dec. 5-15
Seed rate (kg/ha)	:	125
Seed requirement	:	15 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Central Zone
Advance Varietal Trial, 2026-27
AVT-RI-TS-TAD

Trial conducting centres

State	No.	Centres
Gujarat	4	Vijapur, SK Nagar, Dhandhuka, Junagadh,
Madhya Pradesh	5	Powarkheda, Jabalpur, Sagar, Indore, Jhansi
Chhattisgarh	2	Bilaspur, Raipur
Rajasthan	1	Udaipur
UP	1	Banda
Total	13	

Details of test entries

Contributing Centres	No. of entries	Name of entries
VNMKV, Parbhani	1	PBN0169,
PDKV, Akola	1	AKAW5561 ^Q
JNKV, Jabalpur	1	JWJ3640
IGKV, Bilaspur	1	CG1059 ^Q
ARS, Niphad	2	NIAW4812 ^Q , NIAW4895
IARI, Indore	3	HI8870(d) ^Q , HI8869(d) ^Q , HI1723 ^Q
ARI, Pune	1	MACS6898
SDAU, Vijapur	2	GW573*, GW584
Checks	6	DBW110, CG1040, DBW359, HI8851(d), HI8627(d), HI8823(d)
Total	18	

* denotes final year entry, ^Q:Superior grain quality

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Irrigations	:	Two (pre-sowing & one irrigation at 40-45 DAS (Limit of 3 Irrig. in Gujarat)
Fertilizer dose (kg/ha)	:	90:60:40 (N:P:K)
Time of sowing	:	Oct. 25 – Nov. 05
Seed rate (kg/ha)	:	100
Seed requirement	:	18 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Central Zone
Advance Varietal Trial, 2026-27
AVT-IR-ES-TAS
Trial conducting centres

Zone	No.	Centres
CZ	7	Indore, Powarkheda, BISA-Jabalpur, JNKVV-Jabalpur, Bilaspur, Junagadh, Vijapur
Total	7	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	1	DBW538 ^Q
Checks	4	DBW327, MP1399, DBW445(I), HD3463(I)
Total	5	

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	150% RFD+ FYM15 t/ha+ Growth Regulators*
Time of sowing	:	1-10 November
Seed rate (kg/ha)	:	100
Seed requirement	:	9 Kg per entry

* **Note:** Two sprays as tank mix-Chlormequat chloride @ 0.2%+ tebuconazole @ 0.1% of commercial product dose at First Node and Flag leaf (Tank mix application). Use 400L/ha of water for spraying

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Peninsular Zone
Advance Varietal Trial, 2026-27
AVT-IR-TS-TAD

Trial conducting centres

State	No.	Centres
Maharashtra	7	Niphad, Pune, Dhule, Akola, Parbhani, Nashik, Karad
Karnataka	4	Dharwad, Ugar-Khurd, Kalloli, Nippani
Total	11	

Details of test entries

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	2	HD3543* ^Q , QBP2512(QCWSN)
ARI, Pune	1	MACS6899
IARI, Indore	4	HI1717 ^Q , HI8866(d), HI8867(d) HI1726(QCWSN)
MPUAT, Udaipur	1	PWU07 ^Q ,
Checks	6	GW222, MACS6222, DWR162, HI8849, MACS4135(d), MACS3949
Total	14	

* denotes final year entry ^Q: Superior grain quality

Experimental details

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N:P:K)
Time of sowing	: November 5-15
Seed rate (kg/ha)	: 100 kg/ha
Seed requirement	: 15kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Peninsular Zone
Advance Varietal Trial, 2026-27
AVT-IR-LS-TAS

Trial conducting centres

State	No.	Centres
Maharashtra	7	Niphad, Pune, Nashik, Akola, Dhule, Karad, Parbhani
Karnataka	5	Dharwad, Ugar-Khurd, Bagalkot, Kalloli, Nippani
Total	12	

Details of test entries

Contributing Centres	No. of entries	Name of entries
JAU, Junagadh	1	GJW1113
JNKV, Jabalpur	1	JWJ3629 ^Q
IIWBR, Karnal	1	DBW527
ARI, Pune	1	MACS6901
ARS, Niphad	1	NIAW4884
UAS, Dharwad	1	UAS3042
Checks	3	HD2932, HI1687, DBW426
Total	9	

* denotes final year entry ^Q:Superior grain quality

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6m x 2.16m (12 rows)
Fertilizer dose (kg/ha)	:	90:60:40 (N:P:K)
Time of sowing	:	Dec.5-15
Seed rate (kg/ha)	:	125
Seed requirement	:	15 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Peninsular Zone
Advance Varietal Trial, 2026-27
AVT-RI-TS-TAD

Trial conducting centres

State	No.	Centres
Maharashtra	6	Akola, Pune, Niphad, Nashik, Parbhani, Karad
Karnataka	5	Dharwad, Nippani, Bagalkot, Ugar-Khurd, Kalloli
Total	11	

Details of test entries

Contributing Centres	No. of entries	Name of entries
ARS, Niphad	2	NIAW4649*, NIAW4812 ^Q
ARI, Pune	1	MACS6898
BUAT, Banda	1	BUDW5
IGKV, Bilaspur	1	CG1059 ^Q
IARI, Indore	1	HI8862(d)*
IIWBR, Karnal	1	DBW503*
UAS, Dharwad	1	UAS3038* ^Q ,
Checks	6	HI1605, NIAW3170, NIAW4267, NIDW1149(d), UAS478(d), UAS446(d)
Total	14	

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Irrigations	:	Two (pre-sowing & one irrigation at 40-45 DAS)
Fertilizer dose (kg/ha)	:	90:60:40 (N:P:K)
Time of sowing	:	Oct. 25 – Nov. 5
Seed rate (kg/ha)	:	100
Seed requirement	:	15kg per entry +

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

SPL –Trial (Dicoccum), 2026-27
SPL-DIC-IR-TS-PZ

Trial conducting centres

Zone	No.	Centres
PZ	10	Pune, Karad, Niphad, Washim, Dharwad, Ugar khurd, Kalloli, Mudhol, Mandya, Wellington
Total	10	

Details of test entries

Contributing Centres	No. of entries	Name of entries
ARI, Pune	3	MACS5069, MACS5070, MACS5071
Checks	3	HW1098, DDK1029, MACS6222
Total	6	

Experimental details

Design	:	R.B.D.
Replications	:	Four
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	120:60:40 (N:P:K)
Time of sowing	:	1-15 November
Seed rate (kg/ha)	:	100
Seed requirement	:	15 Kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Special Trial (NUE), 2026-27

Trial conducting centres

Zone	No.	Centres
NWPZ	5	Delhi, IIWBR Karnal, Ludhiana, Hisar, CSSRI Karnal*
NEPZ	4	Ayodhya, BHU Varanasi, Sabour, Coochbehar
Total	9	

*CSSRI: N₂O Emission; NH₄⁺/NO₃⁻ Forms,

Details of test entries

Contributing Centers	No. of entries	Name of entries
IARI IIWBR Ludhiana Checks		HD3086, DBW371, HD3369, DBW222, DBW303, HI1612.
Total		

Experimental details

Design	: Simple Lattice (4*4)
Replications	: Two
Plot size	: Gross: 6 x 1.20m (6 rows);
Fertilizer dose (kg/ha)	: 75% Rec. N(112.5N); P:K (60:40)
Time of Application	: 3 Split Doses (1/3 rd Basal:1/3 rd CRI and 1/3 rd at Booting)
Time of sowing	: Nov. 1-15,
Seed rate (kg/ha)	: 100
Seed requirement	: 5 kg per entry

Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

Physiological Trial/ Nursery

Heat & Drought Tolerance Screening Trial (HDTST), 2026-27

Conducting centres

Zone	No.	Centres
NWPZ	3	Hisar, Karnal, Ludhiana
NEPZ	3	Ranchi, Sabour, RPCAU-Pusa
CZ	3	Junagadh, Indore, Vijapur
PZ	3	Pune, Dharwad, Niphad
Total	12	

Details of trial entries

SN	Contributing centres	No. of Entries	Name of entries
1	IWBR, Karnal		
2	Indore		
3	PAU, Ludhiana		
4	IARI, New Delhi		
5	Bilaspur		
	Checks		
Total entries			

Experimental details

Design	:	Simple lattice
Replications	:	Two
Plot size	:	6 rows of 3m length spaced 20cm apart (3.6m ²)
Treatments	:	3 (timely and late sown with minimum 21 days and maximum 1 month difference between the two sowings and one rainfed condition)
Time of sowing	:	NWPZ&NEPZ:TS: Nov.1-15 LS: Minimum 21 days and maximum 1 month difference between two sowings, RF-Oct.25-Nov.5th CZ&PZ:TS: Nov.5-15 LS: Minimum 21 days and maximum 1 month difference between two sowings, RF-Oct.25-Nov.5th
Fertilizer dose (Kg/ha)	:	As per the recommendation of the zones
Seed rate (kg/ha)	:	TS:100, LS:125, RF:125
Seed requirement	:	5kg. per entry

Observations to be recorded: Germination%, Days to heading, Days to anthesis, Days to maturity, Plant height (cm), Total biomass of each net plot at harvest (g), Productive tillers of one full row length, Grain yield of each gross plot (g), 1000-grains weight (g), Grain number per spike, Grain weight per spike. Two recordings of NDVI at 15 days after sowing and again at 21 days after anthesis. Canopy temperature at 15 days and 21 days after anthesis, Chlorophyll content at 15 days and 21 days after anthesis

NATIONAL GENETIC STOCK NURSERY (NGSN) [Suggested Crossing Block]

Conducting Centres

Zone	No	Centres
NHZ	3	Almora, Malan, Khudwani
NWPZ	7	IIWBR-Karnal, CSSRI-Karnal, Jammu, Hisar, Pantnagar, Ludhiana, Durgapura
NEPZ	8	Ayodhya, Kanpur, Sabour, RPCAU-Pusa, Ranchi, Coochbehar, Kalyani, IARI-Hazaribagh
CZ	11	Indore, Gwalior, Jabalpur, Udaipur, Vijapur, Bilaspur, Junagadh, Lok-Bharti, Powarkheda, Mandor, Sagar
PZ	5	Pune, Dharwad, Akola, Niphad, Parbhani
Total	34	

Details of entries & Checks

NGSN consists latest released/identified varieties, genetic stocks, confirmed elite lines from national nurseries, proven elite lines (with 3 years testing and/or published information)	
Contributing Centres	
Checks	
Total	

Experimental details

Design	:	Augmented Block Design
Plot size	:	02 row plot of 2.5m length spaced at 20cm apart (1.0 m ²)
Fertilizer dose	:	As recommended
Time of sowing	:	NWPZ/NEPZ: November 1-15; CZ / PZ: November 5-20
Seed requirement	:	750g seed each entry; 2.0 kg check varieties

Observations: Grain yield/plot (g), days to heading, days to maturity, plant height, tillers/m row, 1000 grains weight, rusts, leaf blight, powdery mildew, loose smut, other diseases (artificial epiphytotic conditions)

Utilization report: 1. As donor in hybridization 2. Direct selection 3. Germplasm enrichment (trait)

30th SEGREGATING STOCK NURSERY (SSN)

Conducting Centres

Zone	No.	Centres
NHZ	3	Khudwani, Wadura, Almora
NWPZ	4	Jammu, Hisar, Pantnagar, Durgapura
NEPZ	5	Ayodhya, Kalyani, Ranchi, Sabour, Burdwan
CZ	8	Bilaspur, Durgapura, Jabalpur, Udaipur, Lok-Bharati, Junagadh, Powarkheda, Sagar
PZ	5	Akola, Parbhani, Pune, Dharwad, Niphad
Total	25	

Details of cross combinations

Contributing Centres	No. of crosses	Priority trait(s)
IIWBR Karnal		Yellow rust, spot blotch, quality, abiotic stress, pre-breeding
IARI, Delhi		Yield, adaptation, pre-breeding, quality, leaf rust, stem rust
Ludhiana		Yellow rust, quality, adaptation, KB, pre-breeding
Hisar		Leaf rust, drought, heat, adaptation
Pantnagar		Yellow rust, leaf rust, heat, KB, quality
Almora		Winter x spring
Pune		Stem rust, quality, heat, drought, pre-breeding
Vijapur		Heat, short duration, bold grain, quality
Total		

Experimental details

Design	:	Augmented Block Design
Plot size	:	4 row plot of 2.5 m length spaced at 20cm apart
Fertilizer dose	:	As recommended for the centre
Time of sowing	:	NHZ / NWPZ / NEPZ (November 1-15); CZ / PZ (November 5-20);
Seed requirement	:	250g seedforeach cross combination

Utilization Report: No. of cross combinations / plants selected (Selected / preferred traits).

Drought and Heat Tolerance Screening Nursery (DHTSN), 2026-27

Conducting centres

Zone	No.	Centres
NWPZ	2	Hisar, Karnal
NEPZ	2	RPCAU-Pusa, Sabour
CZ	2	Junagadh, Indore
PZ	2	Pune, Dharwad
Total	8	

Contributing Centres: Indore, Niphad, Vijapur, Dharwad, Pune, IARI, Hisar, Ludhiana, Karnal

No. of Entries: 5 to 7 promising entries/ centre

Checks: C306, MP3288, K1317, DBW110, NI5439 **Registered Genetic Stocks:** WH730, DBW150

Experimental details

Design: Augmented/Alpha lattice

Plot size: 1.5m length x 3rows (spaced 20cm apart)

Agronomy: As per the package of practices

Seed requirement: 1.5 kg.per entry

Observations to be recorded:

Agromorphological observations: Germination percentage, Days to heading, Days to anthesis, Days to maturity, Plant height (cm), Total biomass at harvest (g), Productive tillers of one full row length, Grain yield / plot (g), 1000-grain weight (g), Grain number/spike, Grain weight/spike.

Physiological parameters: Two recordings of NDVI (one month after sowing & 21 days after anthesis), Canopy temperature, Chlorophyll fluorescence and Chlorophyll content (15 days & 21 days after anthesis), respectively.

Salinity/Alkalinity Tolerance Screening Nursery 2026-27

Conducting centres

Zone	Number of Centres	Conducting Centres
Haryana	3	ICAR-CSSRI Karnal, ICAR-IIWBR Hisar, HAU Hisar
Punjab	2	Muktsar, Bathinda
UP	3	ICAR-CSSRI Lucknow, Daleep Nagar, Ayodhya
Gujarat	2	ICAR-CSSRI Bharuch, Vijapur
Total	10	

***These centers are tentative and all possibilities will be explored for trial conductance**

Details of trial entries

SN	Cooperating Centre	Entries
1	CSSRI Karnal	
2	IIWBR Karnal	
3	CCSHAU Hisar	
4	PAU Ludhiana	
5	CSAUAT Kanpur	
6	NDUAT Faizabad	
7	Vijapur	
	Checks	4 (Kh65, KRL210, DBW 187, GW 322)
	Total	30 (26 entries + 4 checks)

Experimental Details

Design : Augmented Design
Replication/Sets : Two
Plot size : 5 x 0.60m (3 rows): (3m²)
Fertilizer dose (kg/ha) : 120:60:40 (N:P:K)
Time of sowing : **HAR/PUN:** Nov. 5-20; **UP/GUJ:** 10-25 Nov
Seed requirement : Entries: 900 gm
Checks: 3Kg

Quality Component Wheat Biofortification Nursery

Nursery Conducting Centers

Zone	Number	Centers
NWPZ	4	Ludhiana, Karnal, New Delhi and Pantnagar
NEPZ	2	Kanpur, Varanasi and Ranchi
CZ	4	Indore, Vijapur, Powarkheda and Junagadh
PZ	3	Dharwad, Pune and Niphad
Total	13	

Details of Test Entries

Contributing Center	No. of Entries	Name of Entries
IARI Delhi	3	
IIWBR Karnal	3	
PAU Ludhiana	3	
Hisar	2	
Pantnagar	2	
Kanpur	2	
Varanasi	2	
IARI Indore	2	
Vijapur	2	
Powarkheda	2	
Junagadh	1	
Dharwad	2	
Niphad	2	
Pune	2	
Ranchi	1	
Checks	5	DBW 187, DBW327, GW 322, HD 3386, MACS 6222
Total	31+5	

Experimental details

Design	:	Simple Lattice (6x6)
Replications	:	2
Plot size	:	Gross: 4X0.8(4 rows)
Fertilizer dose (kg/ha)	:	NW/NE: 150:60:40 (N:P:K) CZ/PZ: 120:60:40
Time of Sowing	:	05-20 Nov
Seed rate	:	100kg/ha
Seed requirement	:	2.500 Kg

Samples will be analyzed at ICAR-IIWBR, Karnal for grain appearance score, test weight, protein content, grain hardness index, sedimentation value, Fe and Zn content. Hand threshed samples using cloth should be provided for Fe and Zn analysis separately.

DISCUSSION POINT

Action points emerged from pre workshop meeting

- Reducing dependency on international nurseries
- Establishment of breeding hub

Wheat breeding centres utilize both indigenous breeding material and international germplasm.

Exotic and international germplasm has contributed significantly but greater emphasis is required on the **systematic utilization of Indian germplasm, locally adapted elite lines, released varieties, landraces and trait-specific indigenous donors.**

*A coordinated approach is therefore proposed to enhance the generation of new variability through targeted hybridization and to establish a **Breeding Hub** for efficient planning, execution, advancement and utilization of breeding material.*

- **Fixing a dedicated quota in NIVTs for lines developed through in-house crossing programmes**
It will help in strengthens overall hybridization programme
- **Reduced no. of testing centres and quality of the trial data- a cause of concern and should be taken care of in the trial season ahead.**
- **Priority traits/target genes in the pre-breeding program should be identified.**
- **Empowering of Zonal Coordinators with more responsibility (Beside trial constitution)**

*Beside trial constitution, assign greater responsibility to Zonal coordinator for **planning, coordination, monitoring and quality assurance** of varietal evaluation within their respective zones*

- **How to integrate public and private sector in national wheat & barley program?**
- **Collective breeding programme instead of individual programme should be priority.**

Other points to be discussed

- **Proposal for increasing quota from 25 to 36 in NIVT5A**
- **Strict Implementation of Data Management Policy (2025) of ICAR**
Provides framework for data generation → storage → sharing → reuse
- **A large proportion of trials in NEPZ and PZ are being rejected due to sowing date. Is any discussion is required on date of sowing?**
- **New trial on Nutrient Use Efficiency at 75%of recommended dose**

Zone	No.	Centres
NWPZ	5	Delhi, IIWBR Karnal, Ludhiana, Hisar, CSSRI Karnal*
NEPZ	4	Ayodhya, BHU Varanasi, Sabour, Coochbehar
Total	9	

CSSRI: N₂O Emission; NH₄⁺/NO₃⁻ Forms

- Need to revisit the promotion criteria from QCBWN

Entry name	NWPZ			NEPZ			CZ			PZ		
	Prot.	Zn	Fe	Prot.	Zn	Fe	Prot	Zn	Fe	Prot.	Zn	Fe
GRU22/30	13.1	40.3	29.4	12.6	38.7	21.7	14.3	38.7	32.8	13.7	42.1	35.7
HI1726	13.4	42.6	37.3	12.2	36.7	28.7	14.0	42.2	38.9	14.4	43.6	40.7
MACS-6949	13.4	40.9	36.9	13.1	40.6	31.1	14.7	43.0	45.9	14.3	40.5	40.1
MACS6222©	13.1	42.0	35.8	12.5	37.9	29.0	14.4	42.9	41.9	13.4	43.3	42.0
DBW443©	13.5	42.5	41.0	12.1	41.0	27.2	15.2	42.6	41.5	14.0	44.5	41.6
WBL4231	13.4	40.7	41.5	12.6	39.9	28.2	14.6	40.1	42.5	14.2	41.8	43.9
UASQ340	13.5	41.8	36.3	12.9	39.1	30.2	15.0	46.0	45.1	13.8	43.3	41.5
GW-2025-1047	13.7	42.6	37.6	12.9	38.0	27.0	14.4	42.8	40.3	14.6	46.0	45.2
CRPQK25-01	13.5	42.4	38.0	13.1	41.9	29.2	15.1	40.9	41.8	14.7	43.5	39.3
GW-575	12.8	40.7	37.9	12.3	39.6	28.4	14.2	42.5	37.5	13.5	42.8	39.6
BHU3	12.6	40.1	38.2	11.9	40.9	25.7	13.7	43.0	44.7	13.3	42.0	39.3
GW-576	12.0	42.3	35.5	9.8	35.7	22.6	13.1	44.1	44.0	13.4	45.8	47.2

Promotion Criteria: Yield adv. + any two (Protein content:13% or more; Zinc and Iron content >42ppm)

Promotion of entries should be based on statistical analysis rather than on predefined benchmark values

