

Proposed Work Plan Wheat Quality (2024-25)

Proposed work plan for 2024-25 to be discussed during the meeting to be held on September 2-3, 2024 in hybrid mode at VS Mathur Hall is given below:

NIVT and IVT

NIVT and IVT entries will be analysed for grain appearance score, hectoliter weight, protein content, and sedimentation value in both *aestivum* and durum wheat genotypes. In addition, phenol reaction in bread wheat and yellow berry and yellow pigment in durum wheat will also be analysed.

- **NIVT 1A** (Irrigated Timely Sown) samples from Ludhiana, Delhi, Hisar, Pantnagar, Durgapura, (NWPZ), and Kanpur, RPCAU-Pusa, Varanasi and Sabour (NEPZ) **and** **5A (NWPZ)** (Restricted Irrigation Timely Sown) from Pantnagar, Ludhiana, Delhi, Hisar, Durgapura, will be analysed at PAU, Ludhiana.
- **NIVT 1B** (Irrigated Timely Sown) from Ludhiana, Delhi, Hisar, Durgapura, Pantnagar (NWPZ), Kanpur, RPCAU-Pusa, Varanasi and Sabour (NEPZ) **and** **NIVT 6** (Irrigated early sown) (NWPZ) from Ludhiana, Hisar, Delhi, Pantnagar samples will be analysed at RAU, Durgapura.
- **NIVT 2** (Irrigated Timely Sown) samples from Indore, Vijapur, Junagarh, Powarkheda (CZ), and Dharwad, Pune and Niphad (PZ) **and** **NIVT 6 (CZ)** from Indore, Vijapur, Junagarh, Powarkheda will be analysed at SDAU, Vijapur.
- **NIVT 3A** (Irrigated Late Sown) Entries from Ludhiana, Hisar, Pantnagar, Delhi, Durgapura, (NWPZ) and RPCAU-Pusa, Sabour, Kanpur, Varanasi (NEPZ) **AND** **NIVT 5A (NEPZ)** (Restricted Irrigation Timely Sown) from RPCAU-Pusa, Sabour, Kanpur, Varanasi will be analysed at GBPUA&T, Pantnagar Centre.
- **NIVT 3B** (Irrigated Late Sown) samples from Vijapur, Indore, Powarkheda, Junagarh (CZ) and Dharwad, Niphad, Pune (PZ) will be analysed by the quality laboratory at ARS, Niphad.
- **NIVT 4** (Irrigated Timely Sown *T. durum*) samples from Vijapur, Indore, Powarkheda, Junagarh (CZ) and Dharwad, Niphad, Pune (PZ) will be analysed by the quality laboratory at ARI, Pune.
- **NIVT 4** (Irrigated Timely Sown *T. durum*) samples from Ludhiana, Delhi, Hisar, Pantnagar (NWPZ) will be analysed ICAR-IIWBR, Karnal.

- **NIVT 5B** (Restricted Irrigation Timely Sown, both durum and aestivum) samples from Vijapur, Indore, Powarkheda, Junagarh (CZ) and Dharwad, Niphad, Pune (PZ) will be analysed at UAS, Dharwad.
- Karnal centre (NIVT 1A, 1B, 3A, 4, 5A and 6) will be analysed at ICAR-IIWBR, Karnal.
- **IVT (NHZ)** samples from Shimla, Almora and Malan will be analysed at ICAR-IIWBR, Karnal.

AVT and HYPT

- AVT and HYPT samples from all the centres mentioned in NIVTs and IVTs will be analyzed by ICAR-IIWBR, Karnal for various quality parameters including baking evaluation of IInd year entries and checks. Grain hardness index of selected centres of AVT/HYPT will be evaluated at ICAR-IARI, New Delhi.

QCWBN: All QCWBN samples will be analyzed at ICAR-IIWBR, Karnal.

Salinity/alkalinity nursey: All SATSN samples will be analyzed at ICAR-IIWBR, Karnal.

- **For iron and zinc estimation, only hand-thrashed samples should be sent separately.**
- **For promotion of QCWBN entries, iron and zinc should be ≥ 43 ppm each while protein should be more than 13%. In continuation to the proposed wheat quality benchmarks (59th AICRPW&B Research workers' meet, Aug 24-25, 2020), the entry should meet all three traits to ascertain better wheat quality.**

All trials should be conducted as per the standard agronomic practices.

- The last dates for supplying the samples by respective centres are finalized as follow:

NHZ	15 th June 2025
NWPZ & NEPZ	20 th May 2025
CZ	15 th May 2025
PZ	30 th April 2025
- All the wheat grain samples, duly cleaned and properly packed in polythene bags separately, enclosed in cloth bags should be sent by registered post parcel.
- All the co-operators, who will analyze the wheat samples of various NIVTs should send the data to ICAR-IIWBR, Karnal positively by 15th July, 2025, by e-mail in the format used in annual report.