

**Government of Karnataka
(Department of Agriculture)**

Commissionerate of Agriculture, No.1, Sheshadhri Road, Bengaluru-560001.

No:JDA(CI)/PMFBY/2025 Kharif notification/4/2025-26

Date:07.05.2025

CIRCULAR

Sub: Method of yield estimation of agricultural crops when sufficient number of Crop Cutting Experiments could not be conducted and the adoption of yield estimate of next higher unit is not possible for lack of sufficient data/ experiments defining the method of selection of "neighbouring IU with maximum correlation under PMFBY Crop-Insurance for agricultural crops notified from 2025-26.

Ref: 1. Operational guidelines 2023 of Pradhan Mantri Fasal Bima Yojana issued by the Government of India.
2. Tender notification No.JDA (CI)/Tender/43/2023-24, Dt:07.02.2024.
3. Govt order No.ಕೃ.ಇ 10 ಎಎಇ 2024, ಬೆಂಗಳೂರು, ದಿ:07.03.2024.

A. As per the vide paragraph 18.5.12 of reference 1, the procedure to be adopted for estimation of crop yield when sufficient number of Crop Cutting Experiments (CCE) could not be done has been spelled out. The said paragraph is cited as under-

"In instances where required number of CCEs could not be conducted due to non-availability of adequate cropped area, adverse weather conditions/ inadequate infrastructure etc., the yield estimate for such IUs can be generated by using methods such as

- i) adopting yield estimate of next higher unit, or
- ii) adopting the yield of a neighbouring IU with maximum correlation.

Priority of applicability of aforesaid two methods should be notified by the concerned States in the notification itself, failing which option of

yield estimate of next higher unit only would be considered as default. However, this clause shall only be applicable in unavoidable situations and shall be limited to only minimal number of IU units. It cannot be made a general rule to avoid CCEs. Special efforts should be made by the State to conduct adequate number of CCEs in all notified units in order to provide appropriate benefits to farmers. However, if State fails to submit/approve the CCE data within prescribed time then claims will be settled based on the yield data generated using technology.

B. In the tender notification for PMFBY for 2024-25, which is cited as reference 2, condition number 11 states that in one event of insufficient number of CCE done at an Insurance Unit (IU) level, the order of preference for computation of yield estimation shall be -

1. Adopting yield estimated of next higher unit.
2. Adopting the yield of neighbouring IU with maximum correlation.

C. Thus, in the event (endeavour will be to keep this at the minimum) of insufficient number of CCE at an IU level, if the next higher Unit yield too should not be possible to adopt (such cases have been seen in previous years) resort to adopting the yield of neighbouring IU with maximum correlation will have to be done.

D. However reference (1) has not elaborated as to how the "next higher IU with maximum correlation" is to be selected. For example if the concerned IU is a Gram Panchayat and hobli level adoption is not possible as per norms, it could be surrounded and being abutted by more than two Gram Panchayats. Which of the neighbouring Gram Panchayats is to be considered as that of maximum correlation? Similar could be the case where IU is Hobli, Taluk or District

E. With a view to select "IU with maximum correlation", the following is the basis and process for doing so.

- I. Since agricultural productivity/yield depends mostly on weather which depends on Longitude. Latitude and Altitude, and edaphic factors which varies with distance from any selected points, it is logical to presume, for the purpose of yield estimate adoption, that the IU that is nearest to the IU for which the estimation is required to be done

- II. It is thus notified that in case of an IU where the adoption of yield estimate (CCE results) of another equivalent IU of the same level (Gram Panchayath for Gram Panchayath, Hobli for Hobli, Taluk for Taluk and District for District) is to be done, the IU of maximum correlation will be the equivalent IU which is nearest to the IU in question.
- III. It is clarified that the term "nearest" would mean the smallest (also known as the bird flies) distance, measured between the headquarters /headquarter offices (Gram panchayath Office for Gram panchayath, Revenue Inspectors office for Hobli).

Based on the details received from Karnataka State Remote Sensing Applications Centre (KSRSAC), the neighbouring IU of maximum correlation with rank-1 has been notified in Government order as elaborated in reference 3.

- F. Accordingly, the neighbouring yield data will be generated in the portal. Until further changes are brought, this system shall be followed in case of all crops notified in 2025-26 and onwards.



Commissioner for Agriculture

Copy to:

1. The Secretary to Government, Department of Agriculture, M.S. Building, Bengaluru for kind information.
2. The Secretary to Government, Department of Horticulture & Sericulture, M.S. Building, Bengaluru for kind information.
3. The Director, Horticulture Department, Lalbagh, Bengaluru.
4. The Director, Department of Economics and Statistics, M.S. Building, Bangalore.
5. All the empanelled Insurance Companies.
6. All the Deputy Commissioner of Districts.
7. All the Chief Executive Officers of Zilla Panchayaths of the districts.
8. All Districts Joint Directors of Agriculture for information and needful action.