



**Dr. Bakshi Ram**  
**Director**

F.No 19-6/2020/Tech/19-NK-R&D/

15.10.2020

**GENERAL CIRCULAR - I**

Dear Sir/Ma'am,

ICAR-Sugarcane Breeding Institute, Coimbatore in collaboration with University of Agricultural Sciences, Dharwad, S.Nijalingappa Sugar Institute, Belagavi and the sugar industries of Northern Karnataka would be organizing the **19<sup>th</sup> Sugarcane Research and Development Workshop of Northern Karnataka** during **December 2020** in the premises of **S.Nijalingappa Sugar Institute, Belagavi** to discuss the following topics:

1. Review of action taken on the recommendations of the previous workshop
2. Varietal management to improve & sustain sugar recovery in factories throughout the season
3. Varietal position in sugar factories
4. Performance of new sugarcane varieties & AICRP (S) Varietal trials
5. Sugarcane seed nursery programme

Besides these, there will be a Special Lecture on 'Production technologies for Organic sugarcane cultivation' and a 'general interactive session' before the plenary session on the second day.

**S.Nijalingappa Sugar Institute, Belagavi** would be hosting the workshop.

You may please prepare the manuscripts of the papers covering these topics as per the guidelines enclosed and send the same to the undersigned by **November 06, 2020 (Friday)**. The guidelines can also be downloaded from <http://sugarcane.icar.gov.in> or <http://caneinfo.icar.gov.in>

As we are planning to bring out the papers presented at the workshop in printed form (*Compendium of Research Articles & Status Papers*; ISSN: 0973-8185), your papers may be prepared and sent to the undersigned **in time**. The papers (prepared using MS Word 2003) can be sent by email to [sbiextension@yahoo.com](mailto:sbiextension@yahoo.com).

With kind regards,

Yours sincerely,

**(BAKSHI RAM)**

**P.S :** For topic – ii, factories may please provide the **daily sugar recovery percentage of main season and special season** (for 2019-20, 2018-19 and 2017-18) well before the deadline to [sbiextension@yahoo.com](mailto:sbiextension@yahoo.com) for compilation.

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## GUIDELINES FOR PREPARING PAPERS

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### ***Topic i : Review of action taken on the recommendations of the previous workshop***

Sugar factories/Cane Commissionerate/Department of Agriculture and research institutions are requested to furnish the details of action taken on the recommendations made in the previous workshop as per the details given hereunder:

S.No	Recommendation/Action point	Action taken
1.	Micro irrigation/fertigation should be encouraged by the factories for both water -use and fertilizer- use efficiency	
2.	Suitable profitable intercrops which are compatible with sugarcane for increasing farmers' income should be advocated by the factories	
3.	Planting dates with varietal composition should be observed for extending the crushing season of sugar industry	
4.	No factory should encourage growing varieties which are not released/notified by state/ CVRC notification	
5.	Every factory should have all types of varietal composition (Early and mid-late) for proper maintenance of sugar recovery	
6.	Use of early maturing varieties and their multiplication should be encouraged at early and fag end of the season.	
7.	Sugar factories should periodically evaluate new varieties for location- specific adoption.	
8.	After a lengthy discussion on the performance of SNK 09293 , it was recommended to test this variety in comparison with Co 86032 variety in Northern Karnataka, before its consideration. Until such time the variety may not be multiplied in the larger interest of farmers and the sugar industry in the region.	
9.	New varieties could be evaluated by the sugar factories by conducting their own trials	
10.	Representatives of sugar industry and the Director, SNSI, Belagavi may be included as members of the State Varietal Release Committee.	
11.	Seed replacement is to be done with quality disease-free planting material once in five years	
12.	Sugar factories should provide periodical 'advisory' information, besides early warnings, to help farmers in deciding upon a course of action to manage pests and diseases optimally or to respond to early warnings.	

### ***Topic ii: Varietal management to improve & sustain sugar recovery in factories throughout the season***

- Brief history of your factory – its location, crushing capacity, normal level of capacity utilization, crushing period, crushing months (normal dates of start and closure).
- Details of area of operation – location of area from which cane is drawn, irrigation potential ,cropping pattern in the area, rainfall pattern, cane yield levels, constraints in improving cane yield levels such as salinity, alkalinity, drought, water logging, pests and diseases.

- Extent of planting season in your factory zone and the crushing season of your factory.
- Recovery % in your factory during the last 10 years. Differences in recovery % obtained at various phases of the season i.e., early, mid and late. If there is a decline/increase, enumerate the reasons for the same. A recovery graph for the whole season may be provided
- Duration of crushing, total cane crushed, total sugar bagged during the last 10 years – major reasons for the increase/decline.
- New varieties evaluated in your factory area and their performance particulars, in the last 5 years
- System of registration of cane supply to your factory –Procedure adopted for issuing cutting orders for factory supply – practice of conduct of pre- harvest maturity survey as a pre-requisite for issuing cutting orders - average time gap between harvest and crush.
- Details about the development work such as varietal trials you have undertaken to improve the recovery (during the last three years) - budget allotment - its impact on average cane yield and sugar recovery of your factory
- Suggestions for improving recovery level at your factory through varietal management – Explain your action plan for achieving higher recovery in your factory.
- Type of Mill in your factory –imbibition per cent –total losses during the last 5 years and losses at various levels
- What are the early, mid and late varieties you are adopting during the last 5 years? – Indicate the percentage of area under each variety, what are their yields/ha, expected recovery/sucrose % juice in each variety. Please provide in **tabular** form.
- Constraints experienced in cane productivity – varietal interventions for possible overcoming of constraints such as early/late drought, water logging, pests, diseases, lodging, tannery-affected soils, flowering etc.,
- Specific varietal demands of the factory, such as short duration, early, mid or late, variety for special season, mechanization -etc

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**Topic iii: Varietal position in sugar factories**

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Sugar factory personnel to provide the following details:

**2017-18**

S.No	Variety	Area covered	Percentage	Highest yield t/ ha	Yield at the time of introduction (t/ha) (Mention year of introduction)	Yield, at present (t/ha)

**2018-19**

S.No	Variety	Area covered	Percentage	Highest yield t/ ha	Yield at the time of introduction (t/ha) (Mention year of introduction)	Yield, at present (t/ha)

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**2019-20**

S.No	Variety	Area covered	Percentage	Highest yield t/ ha	Yield at the time of introduction (t/ha) (Mention year of introduction)	Yield, at present (t/ha)

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**Topic iv: Performance of new sugarcane varieties & AICRP (S) Varietal trials**

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Scientists from ICAR-Sugarcane Breeding Institute, Coimbatore and Research Stations of Northern Karnataka would be presenting the characteristics of new sugarcane variety and their performance in Northern Karnataka. All the participants may give their observations on the performance of new varieties especially with reference to cane yield (average and highest yield recorded) quality (including SMT and BMT results), performance in different soil types and months of planting & optimum age at harvest. Incidence of pest and diseases, tolerance to abiotic constraints such as drought, water-logging etc. may also be indicated.

The results of AICRP trials conducted in Northern Karnataka would be presented.

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**Topic v: Seed Nursery Programme**

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Details of three-tier seed nursery programme adopted by the factory to sustain the yield of sugarcane varieties to be provided.

Particulars	Area in hectares
Area under primary nursery Variety 1. Variety 2. Variety 3.	
Area under secondary nursery Variety 1. Variety 2. Variety 3.	
Area under commercial nursery Variety 1. Variety 2. Variety 3.	

Breeder seed production programme of the Research stations of Northern Karnataka would be discussed. Sugar factories will present their seed nursery programmes and indicate breeder seed requirements.

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**Please note:**

Kindly provide the data in tabular form, wherever required. You may include additional information if you feel that this would help in enhancing the purpose of the workshop. Please restrict your paper to the main themes of the workshop