## NEWSLETTER NATIONAL SUGAR INSTITUTE KANPUR-208017 (U.P.) INDIA

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### Narendra Mohan Director

Since inception, the institute has endeavored not only to provide competent technical manpower but also the cost effective proven technologies to the sugar & allied industry. Considering this, the academic year 2017 witnessed many developments at the institute with the introduction of Post Graduate Diploma courses on "Sugarcane Productivity & Maturity Management" and on "Industrial Instrumentation & Process Automation". Realizing the importance of "Hands on" training, the newly established "Nano-Brewery" and "Ethanol" units have been made functional.

Diversification is going to be the key for success and considering this the institute has taken up R&D work on production of Bio-CNG from Press Mud and Biodetergent from sugarcane bagasse. Many more studies are in the pipeline and I shall keep you informed over the advancements. Last but not the least, our dream for having cleaner and greener sugar industry is now taking shape with National Sugar Institute working with Central Pollution Control Board helping the sugar industry in implementing measures for effective control of effluents etc.



Wishing you a very prosperous Crushing Season 2017-18 & Shubh Deepawali



#### TRAINING PROGRAMME ORGANIZED:

1. Four weeks Customized Training Programme for the Graduate Engineer Trainees of M/s EID Parry (India) Ltd., Chennai was conducted at the Institute. Theoretical as well as practical training was to the trainees on various imparted techniques of milling, boiler, co-generation, juice extraction, clarification, evaporation and crystallization etc. They were also exposed on various techniques of effluent/waste water treatment and on water conservation.





2. First phase of five days training programme Operation & Techniques of on "ETP water/effluent analysis" was conducted from 4-8th September, 2017. Dr. S. Soloman, Vice Chancellor, CSA University of Agri. & Tech., Kanpur inaugurated the function. The participants were educated on recent guidelines of CPCB and on various innovative techniques of effluent / waste water treatment and its analysis.



3. IInd phase of five days training programme on "ETP Operation & Techniques for water/effluent Analysis" was conducted from 18-22<sup>nd</sup> September, 2017. Shri Suresh Kumar Singh, Managing Director, UP Co-operative Sugar Factories Federation Ltd., Lucknow inaugurated the programme and highlighted the importance of the subject matter. Various technology providers and other experts made their presentation during the training programme.



#### **SEMINARS/CONFERENCES:**

1. One day all India seminar was jointly organized by NSI and SNSI on "Advance Technologies for Raw-Refined and Specialty Sugar Production" on 28<sup>th</sup> August, 2017 at Belagavi, Karnataka. The seminar was attended by large no. of delegates from Karnataka, Maharashtra and Tamil Nadu.



2. Shri Narendra Mohan, Director attended Annual Convention of DSTA at Belgavi and presented a paper on "Determination of Sugar Quality keeping in view market requirement"



3. Shri Narendra Mohan, Director inaugurated International **Symposium** and Expo at Kolhapur where he was also Conferred with "Bharativa Sugar Award" for overall outstanding performance as "Institutional Head-National Level". Dr. Vishnu Prabhakar Srivastava, Asstt. Professor, Organic Chemistry was conferred with "Bharatiya Sugar Award" for "Best overall performance in R&D".



4. Shri Narendra Mohan, along with Shri D. Swain, Prof. Sugar Engineering, Shri J.P. Srivastava, Chief Design Engineer, Dr. A. Bajpai, Prof. Sugar Technology and Dr. V.P. Srivastava, Assistant Prof., Organic Chemistry attended 75<sup>th</sup> Annual Convention of STAI from 3<sup>rd</sup> to 5<sup>th</sup> August, 2017at Kochi.



While Shri Narendra Mohan, Director was conferred with "Industry Excellence Award", Shri J.P. Srivastava got ISGEC Gold Medal-Engineering for Excellence. Four nos. research papers were also presented by the institute experts on this occasion.

5. Shri Narendra Mohan addressed the "Technical Conclave" organized by M/s Dhampur Sugar Group" on 12<sup>th</sup> August, 2017 at New Delhi where he delivered a lecture on "Recent advancements in processing".



6. Sugar Tech -2017 was jointly organized by NSI and CII on 20<sup>th</sup> September, 2017 at Lucknow. Hon'ble Minister of Sugarcane Development and Industries, Shri Suresh Rana and Principle Secretary (Sugar), Government of U.P also graced the occasion.

Various issues concerning sustainability, environment & modernization of sugar industry were discussed during the seminar. A paper entitled "Indian sugar industry - A way forward" was also presented by the institute.



#### **RESEARCH:**

The Institute during the period took up R&D work on the following:

**1. Isolation and purification of yeast strains from saccharine materials and their performance for fermentative production of alcohol-** The yeast strain isolated from spoiled sugar cane juice produced best results when diluted molasses was fermented by this strain with a fermentation value of 91.7% and ethanol yield of 218 l/ton.

The yeast isolated from rotten grapes also produced good results. Three selected strains were tested for their efficiency on molasses medium. The same were repeated to validate the results.



**2. Bio- CNG from Press Mud-** With an aim to utilize the press mud for production of Bio-CNG, different combinations of press mud, farm yard manure and spent wash have been tried. Overall gas formation patterns in ten selected treatments were studied with the help of gas analyzer, out of which five showed best results. Physico-chemical analysis of the slurry of best combinations is in progress.

**3. Studies on clarification of cane juice with bagasse derived bio-char-** The study has been taken up with an aim to utilize the bagasse fly ash in combination with bio char to check its clarification efficiency on cane juice, and other sugar liquors. In order to implement the bagasse fly ash as an adsorbent to clarify the sugarcane juice, the analysis of input parameters such as pol, brix, purity, conductivity ash, colour, turbidity, starch and dextran of sugarcane juice to be treated is under process for exploring further possible use.



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4. Mushroom Cultivation from different lignocellulosic substrates- To explore possibilities of utilization of bagasse as substrate for mushroom cultivation, studies have been taken up. The studies shall be extended further using other lignocellulosic substrates.

5. Studies on synthesis of glycosidic surfactants using by-product resources of sugar industry- Preliminary studies have been completed. Studies have been taken up further so as to enhance the yield of bagasse derived polypentosides based surfactant along with reducing the purification steps involved thereof. An experiment has been performed on 10 gm scale to synthesize the glycosidic surfactant. The purification and characterization of the product is under evaluation. Patent application on this topic has been filed.



6. Improvement in Sugar Quality by clarification of intermediate boiling house products- Experiments were carried out with B & C-Double Cured Sugar melt using different doses of phosphoric acid and hydrogen peroxide. Centrifugation of melt was also carried out to remove suspended impurities & significant removal of colour and turbidity was achieved. Experiments on the samples collected during 2016-17 season have been

completed. Compilation & analysis of data collected is in progress.

**7. Settling test using Lamella Clarifier -** The literature survey has been done and a Laboratory model for the experiment is under construction for the actual assessment of mud removal & quality parameters of clear juice. Lab trials on this new design of clarifier will be carried out during next crushing season.

## **RESEARCH PAPERS / POSTERS PRESENTED / PUBLISHED / SENT FOR PUBLICATION:**

1. "Sugar Warehouse Automation: Minimize Loss & Maximize Output" by Shri Brajesh Singh, published in 75th STAI Annual Convention proceeding held on 03-05<sup>th</sup> August 2017 at Kochi, Kerala.

2."Raw-Refined Sugar Production-Opportunities & Challenges" by Anushka Agarwal & Narendra Mohan presented during all India seminar jointly organized by NSI and S. Nijalingappa Sugar Institute on 28th August 2017 at Belagavi, Karnataka.

3. "Carbonation & Phosphatation Refinery: A Practical Approach" by Narendra Mohan and Mahendra Yadav presented during all India seminar jointly organized by NSI and S. Nijalingappa Sugar Institute on 28th August 2017 at Belagavi, Karnataka.

4. "Organic Sugar: A Real opportunity" by Ashutosh Bajpai and Vivek Pratap Singh presented during all India seminar jointly organized by NSI and S. Nijalingappa Sugar Institute on 28th August 2017 at Belagavi, Karnataka.

5. "Quality of Indian Sugars: Opportunities & Challenges" by Narendra Mohan & Anushka Agarwal presented during the technical session in one day National conference AMIFOST-2017 organized by Amity University on 26<sup>th</sup> September,2017 at Noida U.P.

6. "Indian sugar industry: A way forward" by Narendra Mohan, V P Srivastava, Shikha Singh & Anushka Agarwal presented during Sugar Tech- 2017 organized jointly by NSI-CII on 20<sup>th</sup> September, 2017 at Lucknow.

## TRAINING PROGRAMME FOR IAS/PCS PROBATIONERS:

1. Two batches of PCS Probationers visited Institute on 30<sup>th</sup> August, and 1<sup>st</sup> September, 2017 to participate in interactive sessions on "Issues related to sugarcane production, milling, marketing, and management.



2. IAS probationers took part in the training programme conducted at the institute on 5<sup>th</sup> September, 2017 on the topic "Issues related to Sugar and Ethanol Production for sustainability of the Sugar Industry".



### **CONSULTANCY:**

During July-September, 2017 consultancy services were provided to the following:

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1.	M/s Balrampur Chini Mills Ltd., Unit-
	Babhnan(Sugar Division) Distt- Gonda,
	U.P.
2.	M/s Tulsipur Sugar Company, Unit-
	Balrampur Chini Mills Ltd., Distt-
	Balrampur, UP.
3.	M/s Balrampur Chini Mills Ltd., Unit-
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	Balrampur Chini Mills Ltd., Distt-
	Balrampur, UP.
4.	M/s Dewan Sugar Ltd., Kanth Road
	Agwanpur, Distt-Moradabad, U.P.
5.	M/s Sonipat Coop. Sugar Mills Ltd.,
	Sonipat, Haryana.
6.	M/s DSCL Sugar, Unit-Hariawan, Distt-
	Hardoi, U.P.
7.	M/s Triveni Engineering & Industries
<i>.</i>	Ltd., Unit-Chandanpur, Distt-Amroha,
	U.P.
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8.	M/s Dalmia Bharat Chini Mills, Unit-
	Ramgarh, Distt-Sitapur, U.P.
9.	M/s Triveni Engineering & Industries
	Ltd., Unit-Milak Narayanpur, Distt-
	Rampur, U.P.
10.	M/s Upper Doab Sugar Mills, Shamli,
	Distt-Shamli, U.P.
11.	M/s Tikaula Sugar Mills, Ltd.,
	Muzaffarnagar, U.P.
12.	M/s The Bazpur Co-op Sugar factory
	Ltd., Bazpur, Uttarakhand.
13.	M/s The Kisan Sahkari Chini Mills Ltd.,
	Nadehi, U.S. Nagar, Uttarakhand.
14.	M/s Kichha Sugar Co. Ltd., Kichha, U.S.
17.	Nagar, Uttarakhand.
15.	M/s Daurala Sugar Works, Daurala,
15.	Distt-Meerut, U.P.
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16.	M/s Uttar Pradesh Rajya Chini Nigam
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	Ltd., Unit-Mohiuddinpur, Distt-Meerut, U.P.			
17.	M/s Triveni Engineering & Industries			
	Ltd., Unit-Sabitgarh, Distt-Bulandshahar,			
	U.P.			
18.	M/s Dhampur Sugar Mills, Ltd., Unit-			
	Dhampur, Distt-Bijnor, U.P.			
19.	M/s DSM Sugar Unit-Asmoli, Distt-			
	Muradabad, U.P.			
20.	M/s Sasa Musa Sugar Works Pvt. Ltd.,			
	Sasa Musa, Distt-Gopalganj, Bihar.			
21.	M/s Dwarikesh Sugar Industries Ltd.,			
	Unit-Afjalpur, Distt-Bijnor, U.P.			
22.	M/s E.I.D. Parry (India) Ltd., Dare,			
	Chennai, TamilNadu.			
23.	M/s Triveni Engineering & Industries			
24	Ltd., Unit-Khatauli, Muzaffarnagar, U.P.			
24.	M/s Triveni Engineering & Industries Ltd., Unit-Sabitgarh, Bulandshahr, U.P.			
25.	M/s Dwarikesh Sugar Industries Ltd.,			
20.	Unit-Dwarikesh Dham, Faridkot Bareilly,			
	U.P.			
26.	M/s D.S.M. Sugar Mills Ltd., Unit-Rajpura,			
	Sambhal, U.P.			
27.	M/s D.S.M. Sugar Mills Ltd., Unit-			
28.	Meerganj, Bareilly, U.P. M/s Saf Yeast Company Pvt. Ltd., Hardoi			
20.	U.P.			
29.	M/s Uttam Sugar Mills Ltd., Unit-			
	Libberheri, Haridwar, Uttarakhand.			
30.	M/s Uttam Sugar Mills Ltd., Unit-			
	Barkatpur, Haridwar, Uttarakhand.			
31.	M/s Uttam Sugar Mills Ltd., Unit -			
32.	Khaikheri, Haridwar, Uttarakhand. M/s Uttam Sugar Mills Ltd., Unit-			
52.	Shermau, Haridwar, Uttarakhand.			
33.	M/s Triveni Engineering & Industries			
	Ltd., Unit - Milak Narayanpur, Rampur,			
	U.P.			
34.	M/s Triveni Engineering & Industries			
25	Ltd., Unit- Rani Nagal, Moradabad, U.P.			
35.	M/s Daurala Sugar Works, Daurala, Meerut, U.P.			

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36.	M/s Dalmia Bharat Sugar & Industries Ltd., Unit-Jawaharpur, Sitapur, U.P.
37.	M/s Mawana Sugar Works, Mawana, Distt- Meerut, U.P.
38.	M/s Gobind Sugar Mills Ltd., Aria Estate, Distt- Kheri, U.P.
39.	M/s Seksaria Biswan Sugar Factory Ltd., Biswan, Distt- Sitapur, U.P.
40.	M/s L.H. Sugar Factory & Oil Mills Pvt. Ltd., Saukara, Distt- Pilibhit, U.P.
41.	M/s PBS Food (Sugar) Pvt. Ltd., Chandpur, Bijnor
42.	M/s Wave Industries Pvt. Ltd., Dhanaura, Distt- Amroha, U.P.
43.	M/s Wave Industries Pvt. Ltd., Distt- Bijnor, U.P.
44.	M/s Kanoria Sugar & Gen. Manufacturing Company Ltd., Captainganj, Distt- Kushinagar, U.P.
45.	M/s Chadha Sugar & Industries Pvt. Ltd., Distt- Gurdaspur, Punjab.
46.	M/s Rajasthan State Ganganagar Sugar Mills Ltd., Sri Ganganagar, Rajasthan.
47.	M/s Bajaj Hindustan Sugar Ltd., Rudhauli Distt- Basti, U.P.
48.	M/s Bajaj Hindustan Sugar Ltd., Utraula, Distt- Balrampur, U.P.
49.	M/s Bajaj Hindustan Sugar Ltd., Pratapur, Distt- Deoria, U.P.
50.	M/s Bajaj Hindustan Sugar Ltd., Kundarki, Distt- Gonda, U.P.
51.	M/s Bajaj Hindustan Sugar Ltd., Golagokarannath, Distt- Lakhimpur Kheri, U.P.
52.	M/s Bajaj Hindustan Sugar Ltd., Palia Kalan, Distt- Lakhimpur Kheri, U.P.
53.	M/s Bajaj Hindustan Sugar Ltd., Khambarkhera, Distt- Lakhimpur Kheri, U.P.

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Distt- Bijnor, U.P.59.M/s Bajaj Hindustan Sugar Ltd., Distt- kinauni, Meerut, U.P.60.M/s Bajaj Hindustan Sugar Ltd., Gangnauli, Distt- Saharanpur, U.P.61.M/s Wave Industries & Pvt. Ltd., Saharanpur, U.P.62.M/s Wave Industries & Pvt. Ltd., Unit- Bulandshahar, U.P.63.M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.64.M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.65.M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.66.M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.67.M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.68.M/s Triveni Engineering & Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.69.M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar70.M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.71.M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar		Budhana, Distt- Muzaffarnagar, U.P.	
<ul> <li>59. M/s Bajaj Hindustan Sugar Ltd., Distt-kinauni, Meerut, U.P.</li> <li>60. M/s Bajaj Hindustan Sugar Ltd., Gangnauli, Distt- Saharanpur, U.P.</li> <li>61. M/s Wave Industries &amp; Pvt. Ltd., Saharanpur, U.P.</li> <li>62. M/s Wave Industries &amp; Pvt. Ltd., Unit-Bulandshahar, U.P.</li> <li>63. M/s Simbhauli Sugar Ltd., Unit-Brijnathpur, Distt- Hapur, U.P.</li> <li>64. M/s Simbhauli Sugars Ltd., Unit-Simbhauli Sugar Simbhauli, Distt- Hapur, U.P.</li> <li>65. M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>66. M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>67. M/s Dhampur Sugar Mills Ltd., Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt-Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt-Merut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	58.	M/s Bajaj Hindustan Sugar Ltd., Bilai,	
<ul> <li>kinauni, Meerut, U.P.</li> <li>M/s Bajaj Hindustan Sugar Ltd., Gangnauli, Distt- Saharanpur, U.P.</li> <li>M/s Wave Industries &amp; Pvt. Ltd., Saharanpur, U.P.</li> <li>M/s Wave Industries &amp; Pvt. Ltd., Unit- Bulandshahar, U.P.</li> <li>M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.</li> <li>M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>		Distt- Bijnor, U.P.	
<ul> <li>M/s Bajaj Hindustan Sugar Ltd., Gangnauli, Distt- Saharanpur, U.P.</li> <li>M/s Wave Industries &amp; Pvt. Ltd., Saharanpur, U.P.</li> <li>M/s Wave Industries &amp; Pvt. Ltd., Unit- Bulandshahar, U.P.</li> <li>M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.</li> <li>M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar S Ltd., Unit- Simbhauli Sugar S Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	59.		
<ul> <li>Gangnauli, Distt- Saharanpur, U.P.</li> <li>M/s Wave Industries &amp; Pvt. Ltd., Saharanpur, U.P.</li> <li>M/s Wave Industries &amp; Pvt. Ltd., Unit- Bulandshahar, U.P.</li> <li>M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.</li> <li>M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>			
<ul> <li>M/s Wave Industries &amp; Pvt. Ltd., Saharanpur, U.P.</li> <li>M/s Wave Industries &amp; Pvt. Ltd., Unit- Bulandshahar, U.P.</li> <li>M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.</li> <li>M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	60.		
<ul> <li>Saharanpur, U.P.</li> <li>M/s Wave Industries &amp; Pvt. Ltd., Unit- Bulandshahar, U.P.</li> <li>M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.</li> <li>M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>			
<ul> <li>M/s Wave Industries &amp; Pvt. Ltd., Unit- Bulandshahar, U.P.</li> <li>M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.</li> <li>M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	61.	,	
<ul> <li>Bulandshahar, U.P.</li> <li>M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.</li> <li>M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	62	-	
<ul> <li>63. M/s Simbhauli Sugar Ltd., Unit- Brijnathpur, Distt- Hapur, U.P.</li> <li>64. M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>65. M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>66. M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>67. M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	62.		
<ul> <li>Brijnathpur, Distt- Hapur, U.P.</li> <li>64. M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>65. M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>66. M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>67. M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	62		
<ul> <li>64. M/s Simbhauli Sugars Ltd., Unit- Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>65. M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>66. M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>67. M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	05.	,	
<ul> <li>Simbhauli Sugar Simbhauli, Distt- Hapur.</li> <li>M/s Oswal Overseas Ltd., Nawabganj, Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	64.		
<ul> <li>Distt- Bareilly, U.P.</li> <li>M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>		,	
<ul> <li>66. M/s DSM Sugar Meerganj Unit of Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>67. M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt-Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt-Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	65.		
<ul> <li>Dhampur Sugar Mills Ltd., Distt- Bareilly, U.P.</li> <li>M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>		Distt- Bareilly, U.P.	
<ul> <li>U.P.</li> <li>67. M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt-Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt-Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	66.		
<ul> <li>67. M/s Dhampur Sugar Mills Ltd., Dhampur Distt- Bijnor, U.P.</li> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt-Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt-Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>			
<ul> <li>Distt- Bijnor, U.P.</li> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>			
<ul> <li>68. M/s Triveni Engineering &amp; Industries Ltd., Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	67.		
<ul> <li>A Sugar Unit- Deoband, Distt- Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	60		
<ul> <li>Saharanpur, U.P.</li> <li>M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	68.	, 0 0	
<ul> <li>69. M/s HPCL, Bio Fuels Ltd., Unit- Suguali, East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>			
<ul> <li>East Champaran, Bihar</li> <li>70. M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>	69		
<ul> <li>70. M/s Nanglamal Sugar Complex, Distt- Meerut, U.P.</li> <li>71. M/s PMV Maltings Pvt. Ltd., Mahua Khera Ganj Kashipur, Distt- U.S. Nagar</li> </ul>		,	
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Khera Ganj Kashipur, Distt- U.S. Nagar			
	71.	M/s PMV Maltings Pvt. Ltd., Mahua	
** 11 1			
Uttarkhand		Uttarkhand	

72. M/s Mankapur Chini Mills Ltd., Unit of Balrampur Chini Mills Distt- Gonda, U.P.

#### **EXTENSION LECTURES:**

1. Shri Manoj Kumar Upreti, General Manager (Production), Balrampur Chini Mills Ltd. delivered a lecture on "Innovative techniques in Standalone Refineries in different part of world to improve their Sustainability" on 1st August, 2017 at the Institute.



2. Shri Rajeev Gupta, General Manager-Marketing, M/s Jindal Stainless Ltd delivered a Lecture on "Causes of Corrosion and use of Stainless Steels" in sugar industry on 18<sup>th</sup> August, 2017 at the Institute.



3. Dr. (Mrs.) Priyanka Singh, Scientific Officer U.P. Council of Sugarcane Research, Shahjahanpur delivered a lecture on "Sugarcane Management for higher Sugar Recovery" at the institute.



4. Shri Jivan Jyoti Bhagat, Director, STM Projects, N. Delhi delivered a very informative



lecture for the benefit of staff and students on "Water Management and Laboratory Practices". He also took keen interest in the institute activities.

5. Shri S.K. Bhojraj, a renowned consultant and



President (Sugar), Crystal Engineers, Pune delivered a very informative and interactive lecture for the benefit of staff and students on "Evaporator Configuration for Higher Steam Economy".

6. Mr. Rajesh Singh, Sr. Manager (QC), Triveni Engineering & Industries Ltd., delivered a lecture on "DLP & GMP for manufacturing of Plantation white & refined sugar" covering various aspects of laboratory analysis.



7. Dr. Protibha Nath Banerjee, Scientist, University of Dodoma, Tanzania, delivered a lecture on "By- product Utilization in a Bio refinery Concept: Non- Cellulosic Heteropolysaccharide from Sugarcane Bagasse".

#### **INDEPENDENCE DAY:**

On 71th Independence Day, the Director, hoisted the National Flag at the Institute and addressed the staff, students and faculty members. He called upon the students to follow the mantra of ADD i.e. Attitude, Discipline and Dedication for achieving success in life. The prizes were also distributed to the winners of various competitions organized during the Swachhta pakhwada.



#### **NEW INDIA PLEDGE:**

"New India Pledge" was administered to the staff and students of the institute in connection with 75th Year of "Quit India Movement" and 70th year of Independence.



#### **ORIENTATION PROGRAMME:**

An Orientation programme was organized for the fresh batch of students admitted during the academic session 2017-18 in various courses conducted by the Institute. Shri Narendra Mohan, Director addressed the students and stressed upon the need for maintaining disciplines in all sphere of life. Hostel Warden's and Education In-charge also briefed the newcomers about the various rules and regulations etc. of the institute.



#### **FRESHER'S WELCOME PARTY:**

The students of various courses organized a function to celebrate the Fresher's Party on 19<sup>th</sup> August, 2017. Many activities viz. singing, dance and drama etc. were performed by the senior students. After various rounds to test the overall personality, Mr. Amarnath Singh, (Instrumentation & Automation, Ist yr) & NSI Ms Anshu Singh, (Sugar Tech. Ist yr) were chosen as Mr. and Ms. NSI respectively.



#### **TEACHERS DAY:**

The students of various courses organized a function to celebrate the Teacher's Day on 5<sup>th</sup> September 2017. On the occasion of teacher's day, Shri Narendra Mohan, Director, while remembering the contribution of Dr. S. Radha Krishnan, delivered a lecture highlighting the

role of teacher in character and career building of students.



#### **TREE PLANTATION:**

Institute continued its efforts for creating awareness about environment protection and in the process a programme on "Tree Plantation" was organized at the institute jointly with Juhari Devi PG Girls College, Kanpur on 24<sup>th</sup> August, 2017.



#### **VISHWAKARMA POOJA:**

"Vishwakarma Pooja" was organized in the Experimental Sugar Factory, Instrumentation Division & Agricultural Farm on 17<sup>th</sup> September, 2017. Large no. of staff members and students participated in the function.



### हिंदी पखवाड़ा:

सरकारी कामकाज में राजभाषा के रुप में हिन्दी के प्रति जागरुकता लाने तथा उसके उत्तरोत्रर विकास हेतु संस्थान में दिनांक 01 सितम्बर से 15 सितम्बर 2017 तक हिन्दी पखवाड़ा मनाया गया। हिंदी पखवाड़ा के दौरान आयोजित विविध प्रतियोगिताओं में विजेता स्टाफ़ एवं छात्रों को पुरस्कार से नवाजा गया। हिन्दी पखबाडे का उद्घाटन डॉ0 अरविन्द सिंह, विभागाध्यक्ष, क्राइस्ट चर्च महाविद्यालय, कानपुर ने किया। हिन्दी पखबाडे के दौरान आयोजित विभिन्न प्रतियोगिताओं में निम्न संस्थान कर्मी प्रथम रहे।

हिन्दी टिप्पण आलेखन प्रतियोगिता	श्री सन्तोष कुमार त्रिपाठी
हिन्दी निबन्ध प्रतियोगिता	श्री दयाशंकर मिश्रा
हिन्दी निबन्ध प्रतियोगिता (केवल एम.टी.एस. कर्मचारियों के लिए)	श्री बाल किशन मीणा
हिन्दी टंकण प्रतियोगिता	श्री रमाकान्त
हिन्दी व्याख्यान प्रतियोगिता	श्री दयाशंकर मिश्रा
हिन्दी प्रचार-प्रसार प्र <mark>तियोगिता</mark>	श्री एस.के. त्रिवेदी
हिन्दी सामान्य ज्ञान प्रश्नोत्ररी प्रतियोगिता	श्री रमाकान्त
हिन्दी सामान्य ज्ञान प्रश्नोत्ररी प्रतियोगिता (केवल एम.टी.एस. कर्मचारियों के लिए)	श्री धर्मेन्द्र कुमार शाह



## राजभाषा पारितोषिक:

राजभाषा पारितोषिक योजना के अंतर्गत वर्ष 2016-17 के दौरान राजभाषा नीति के "क" एवं "ख" क्षेत्र के अंतर्गत संस्थान को उत्कृष्ट कार्यान्वयन हेतु तृतीय स्थान प्राप्त ह्आ है।



#### **ANNUAL SPORTS:**

Annual Sports under the auspices of Council of Students Activities were organized from 11 to 23<sup>rd</sup> September, 2017 at the Institute. Besides team events e.g. Inter Class Cricket & Volleyball, individual events for Chess, Table Tennis, Badminton and Athletics etc. were also organized. Boys & Girls studying in the various courses actively participated in games and sports.

Winners (Boys) of indoor and outdoor games are as under:

	Winner
Badminton	Dev Prakash Gupta-DIFAT-1 <sup>st</sup> Yr.
Carom (single)	Abhishek-SE-2 <sup>nd</sup> Yr.
Carom (Double)	Nikunj & Akhilesh-DIIPA
Table Tennis	Anand Hari-SE-2 <sup>nd</sup> Yr.
Table Tennis	Saignik Ganguli & Arnab Nandi-
Badminton(Doubl	Shobhit Taygi, Ansuman Singh -
Chess	Piyush-DIFAT
Cricket	Sugar Technology 3 <sup>rd</sup> Year.
Javellin Throw	Gaurav Yadav – ST-2 <sup>nd</sup> Yr.
Discus Throw	Shobhit Taygi-SE-2 <sup>nd</sup> Yr.
The second second	Kuldeep Shukla – ST-1 <sup>st</sup> Yr.
Volleyball	Sugar Engineering Final Year.

Winners (Girls) of indoor and outdoor games are as under:

Event	Winner
Badminton	Amrita Yadav - CCQC
Chess	Akanksha Mishra -Research
Table Tennis	Akanksha Mishra -Research
Athletics (100M)	Sangeeta Verma-DIFAT-1 <sup>st</sup> Yr.
Javelin Throw	Sangeeta Verma-DIFAT-1 <sup>st</sup> Yr.
Carom	Ranjana Kashyap-ST-2 <sup>nd</sup> Yr





#### SCIENTIFIC SOCIETY ANNUAL FUNCTION:

The inaugural function of the Scientific Society under the Council of Student's Activities was organized on 25<sup>th</sup> September, 2017 at National Sugar Institute, Kanpur.

The function was graced by Shri S. K. Bhojraj, one of the most eminent and versatile Sugar Technologist. Prizes were also given to the winners of various competitions.



#### रक्तदान शिविरः

संस्थान में दिनांक 28 सितंबर 2017 ,को मायांजलि चैरिटेबल ब्लड बैंक तथा रोटरी क्लब ,कानपुर के सहयोग से रक्तदान शिविर का आयोजन किया गया। इसमें संस्थान के अधिकारियों, कर्मचारियों एवं छात्र -छात्राओं द्वारा रक्तदान किया गया।



# PREPARATION & SALE OF SUGAR STANDARDS GRADES:

Meeting of the Committee of Experts constituted by the Govt. of India under the Chairmanship of Director, National Sugar Institute for approval of Sugar Standards Grades for the season 2017-18 was held on 28<sup>th</sup> September, 2017.





Meeting was attended by representatives from Bureau of Indian Standards, NFCSF, STAI, Indian Institute of Sugarcane Research and Indian Institute of Toxicological Research, Lucknow. The distribution of Standards will commence from 3<sup>rd</sup> October, 2017. The details are available on institute website www.nsi.gov.in.

#### SWACHHTA PAKHWADA:

Swachhta Pakhwada is being organized from 15th September, 2017 to 02nd October, 2017. During the Swachhta Pakhwada various activities such as drawing competition on "Swachhta Hi Sewa", Nukkad Natak, Eassy & Poem competition were organized.





During the Swachhta Pakhwada activities, oath on "Swachhta Hi Sewa" was administered to the staff and students.

#### **PLACEMENTS:**

Campus interviews were conducted by the following sugar factories and other companies to recruit students of various courses.

- 1. M/s DSCL Sugars Ltd., UP.
- 2. M/s Dhampur Sugar Mills Ltd., UP.
- 3. M/s Avadh Sugar & Energy Pvt. Ltd., UP.
- 4. M/s Dalmia Bharat Sugar & Industries Ltd.
- 5. M/s Balrampur Chini Mills Ltd., UP.
- 6. M/s Uttam Sugar Mills Ltd., UP.
- 7. M/s Wave Industries Pvt. Ltd., UP.
- 8. M/s ISGEC Ltd., Noida, U.P.
- 9. M/s K.M. Sugar Mills Ltd. Faizabad, UP.
- 10. M/s LEHUI India Ltd., Vadodara, Gujarat
- 11. M/s Daurala Sugar Works Ltd., Meerut,
- 12. M/s Mawana Sugar Works Ltd., Meerut.
- 13. M/s SEDL, Mohali, Haryana
- 13. M/s Catalyst Ltd., Guru gram, Haryana

Further interviews have been confirmed by M/s Global Cane Sugar, New Delhi and M/s Parwati Sweetners Ltd., Gwalior, Madhya Pradesn.

