

Technologies Developed by ICAR-NDRI, Karnal

Theme: Innovative Dairy Products		
S. No.	Technology Title	Inventors
1.	NUTRIMIX	Ashish Kumar Singh, P.N. Raju, Amol Sahare, R.R.B. Singh and Sumit Arora
2.	BLUEBERRY FORTIFIED PROBIOTIC DAHI FOR HEALTH PROMOTION	Chand Ram and Neha Tanwar
3.	TECHNOLOGY OF BHAPA DAHI	Kaushik Khamrui, Samuel Nayak and Writdhama Prasad
4.	TECHNOLOGY FOR PREPARATION OF CHOCOLATE BHAPA DAHI	Kaushik Khamrui, Naveen Yadav and Writdhama Prasad
5.	TECHNOLOGY FOR PREPARATION OF CURCUMIN FORTIFIED GHEE	Kaushik Khamrui, Jui Lodh and Writdhama Prasad
6.	TECHNOLOGY FOR THE PREPARATION OF HIGH ANTIOXIDANT ACTIVITY BUFFALO CASEIN HYDROLYSATES	Rajesh Kumar, Rajeev Kapila, Nischal Mayur Ashok Rao, Somya, Gulshan Dass, Harisha, Bodemala, Bimlesh Mann and Suman Kapila
7.	TECHNOLOGY OF REDUCED CALORIE PEDA	Gunvantsinh Rathod and Kaushik Khamrui
8.	WHEY JALJEERA DRINK	Ashish Kumar Singh, Sudhir Singh, G.R. Patil and R.R.B. Singh
9.	WHEY TAMARIND DRINK	Ashish Kumar Singh, Sanket Borad and R.R.B. Singh
10.	WHEY MANGO DRINK	Ashish Kumar Singh, Sudhir Singh, G.R. Patil and R.R.B. Singh
11.	BAJRA LASSI	Ashish Kumar Singh, Sudhir Kumar Tomar, S.K. Kanawjia and Yogesh Khetra
12.	MILK PROTEIN-ENRICHED BAJRA SNACKS	Ashish Kumar Singh, P.N. Raju, Sanket Borad and R.R.B. Singh
13.	WHEY-SKIM MILK-MILLET BASED COMPLEMENTARY FOOD	Ramesh Moda, Ashish Kumar Singh, P.N. Raju and R.R.B. Singh
14.	MILK PROTEIN-ENRICHED IRON FORTIFIED BAJRA BISCUIT	Latha Sabikhi, Ashish Kumar Singh, Devang Jani, Gayatri and Sumit Arora
15.	TECHNOLOGY FOR PREPARATION OF SHELF STABLE, NUTRITIONALLY RICH SMOOTHIES USING DAIRY AND NON-DAIRY INGREDIENTS	Sathish Kumar M.H., Latha Sabikhi, D.K. Thompson, Devarja H.C. and Sumit Arora
16.	LOW-CALORIE AND FIBER FORTIFIED MISTI DAHI	P.N. Raju and Dharam Pal
17.	A PROCESS FOR IRON FORTIFICATION OF PANEER USING EDIBLE COATING	P.N. Raju, Parameshwar S. Jotarkar, Ashish Kumar Singh and Sumit Arora
18.	TECHNOLOGY FOR THE MANUFACTURE OF ALOE VERA SUPPLEMENTED PROBIOTIC LASSI	Shaik Abdul Hussain, G.R. Patil and R.R.B. Singh
19.	READY-TO-RECONSTITUTE KHEER MIX	A.A. Patel, G.R. Patil, R.R.B. Singh, Neeraja Tyagi, Vishal Tripathi and Alok Jha
20.	READY-TO-RECONSTITUTE RASMALAI MIX	G.R. Patil, R.R.B. Singh, A.A. Patel, S.K. Nayak and Sangeeta Mishra
21.	READY-TO-RECONSTITUTE BASUNDI MIX	Prateek Sharma, R.R.B. Singh, G.R. Patil and A.A. Patel
22.	LONG-LIFE MILK-CAKE	Anil Kumar, G.R. Patil, R.R.B. Singh and A.A. Patel

23.	EXTENDED SHELF LIFE FUNCTIONAL PANEER	S.N. Rajkumar, R.R.B. Singh, G.R. Patil and A.A. Patel
24.	LOW FAT OVEN BAKED GULABJAMUN	G.R. Patil, R.R.B. Singh, Ashish Kumar Singh, A.A. Patel, Anuradha Singh and Rekha Dahiya
25.	ARJUNA HERBAL GHEE	Rajani Kant, G.R. Patil, R.R.B. Singh and A.A. Patel
26.	TECHNOLOGY OF A FUNCTIONAL MILK DRINK	Kaushik Khamrui and Nripendra Kumar Maurya
27.	TECHNOLOGY FOR MANUFACTURE OF FETA CHEESE FROM COW/ BUFFALO MILK	S.K. Kanawjia, Sanjeev Kumar and Yogesh Khetra
28.	TECHNOLOGY OF A FUNCTIONAL MILK DRINK	Kaushik Khamrui and Nripendra Kumar Maurya
29.	TECHNOLOGY OF REDUCED FAT CHANNA BASED DAIRY SPREAD	Kaushik Khamrui, Kumar Amit Raj and Writdhama Prasad
30.	TECHNOLOGY OF LOW SODIUM PROCESSED MOZZARELLA CHEESE	Yogesh Khetra, S.K. Kanawjia and G.S. Meena
31.	A PROCESS FOR THE PREPARATION OF LOW CHOLESTEROL GHEE	Darshan Lal, Vivek Sharma, Raman Seth, Manoj Kumar and Amit Kumar
32.	ENZYME MODIFIED CHEESE TECHNOLOGY	Bikash C. Ghosh and S. Jaydip Narotambhai
33.	TECHNOLOGY OF PREPARATION OF A REDUCED CALORIE NATURALLY CARBONATED SWEETENED FERMENTED DAIRY BEVERAGE	Sudhir Kumar Tomar, Falguni Patra and Ashish Kumar Singh
34.	STRAWBERRY WHEY DRINK	Shilpa Vij and Samlesh
35.	HEALTH PROMOTING SOY YOGHURT	Shilpa Vij and Deepika Yadav
36.	LACTOSE FREE SOY DAHI	Shilpa Vij and Subrota Hati
37.	PROBIOTIC WHEY DRINK WITH ANTIDIARRHEAL ACTIVITY	Shilpa Vij and Vandna
38.	CURCUMIN SOY WHEY DRINK	Shilpa Vij and Deepender
39.	BIOFUNCTIONAL FRUIT YOGHURT	Shilpa Vij and Jagrani Minj
40.	TECHNOLOGY ON PROBIOTIC FERMENTED MANGO WHEY DRINK	ShilpaVij
41.	TECHNOLOGY FOR THE PREPARATION OF ENCAPSULATED CURCUMIN FOR ITS APPLICATIONS IN DAIRY FOODS	Bimlesh Mann, Rajan Sharma, Rajesh Kumar, Richa Singh and Ramesh Pothuraju
42.	TECHNOLOGY FOR THE PREPARATION OF CASEINOPHOSPHPEPTIDES ENRICHED MILK PROTEIN PRODUCT	Bimlesh Mann, Rajan Sharma, Rajesh Kumar and Prabin Sarkar
43.	PROCESS TECHNOLOGY FOR PALADA PAYASAM MIX PREPARATION BY DRY CRYSTALLIZATION METHOD IN A MECHANICAL UNIT	Menon Rekha Ravindra, B. Surendra Nath and Gajanan P. Deshmukh
44.	TECHNOLOGY FOR PREPARATION OF MILK BASED SPRAY DRIED NANOENCAPSULATED CURCUMIN FORMULATION	Bimlesh Mann, Ankita Hooda, Rajan Sharma, Rajesh Kumar and Richa Singh
45.	PRODUCTION OF MILK PROTEIN CONCENTRATE 60 (MPC60), A HIGH PROTEIN LOW LACTOSE POWDER FROM BUFFALO MILK	Ganga Sahay Meena, Ashwajit Tejram Patil, Neelam Upadhyay, Yogesh Khetra, Sanket G. Borad and Ashish Kumar Singh
46.	PRODUCTION OF BUFFALO MILK BASED MILK PROTEIN CONCENTRATE 60 (MPC60) POWDER WITH IMPROVED SOLUBILITY	Ganga Sahay Meena, Shinde Ankush Punjaram, Neelam Upadhyay, Yogesh Khetra, Sanket G. Borad and Ashish Kumar Singh

47.	PROCESS OPTIMIZATION OF COW MILK PROTEIN CONCENTRATE 70 (MPC70) WITH IMPROVED FUNCTIONAL PROPERTIES	Ganga Sahay Meena, Ashish Kumar Singh and Vijay Kumar Gupta
48.	TECHNOLOGY OF LONG-LIFE KHEER MOHAN	Ganga Sahay Meena, Gaurav, Yogesh Khetra and Raghu H.V.
49.	TECHNOLOGY OF EXTENDED SHELF-LIFE SORGHUM LASSI	Shaik Abdul Hussain and F.C. Garg
50.	TECHNOLOGY OF HIGH PROTEIN ICE CREAM	Suchismita Roy, Shaik Abdul Hussain, Writdhama Prasad and Yogesh Khetra
51.	FUNCTIONAL BUTTER WITH HYPOCHOLESTEROLEMIC ATTRIBUTES	Devaraja H.C., Kaushik Khamrui, Satish Kumar, Suman Kapila and Rajan Sharma
52.	TECHNOLOGY OF FRUIT YOGHURT	B.C. Ghosh, Sathish Kumar M.H., Monika Sharma, Devaraja H.C. and K. Jayaraj Rao
53.	TECHNOLOGY FOR OMEGA-3 RICH MIXED FAT TABLE SPREAD	Neelam Upadhyay, Kuldeep Kamble and Ashish Kumar Singh
54.	FLAVOURED MILK AND CURD FORTIFIED WITH PLANT SOURCE OF OMEGA-3 FATTY ACID	Monika Sharma, Devaraja H.C., Pramod Bhivasen Tambade, B.C. Ghosh and Laxmana Naik N
55.	TECHNOLOGY FOR SPREADABLE BUTTER FORTIFIED WITH VEGETARIAN SOURCE OF OMEGA-3 FATTY ACID	Monika Sharma, Devaraja H.C. and Pandule Vishal Shrirang
56.	SPRAY-DRIED MILK-MALTED MILLET BEVERAGE MIX	P. Heartwin Amaladhas, F. Magdaline Eljeeva Emerald, B. Surendra Nath, H.V. Vikram Simha and P. Arun Kumar
57.	TECHNOLOGY OF PREPARATION OF COW MILK PROTEIN POWDER BASED SANDESH	Sumit Arora, Amila S, Vivek Sharma, Hemant Gawande, Rita and Ashish Kumar Singh
58.	GILOY-GOAT MILK BEVERAGE	Heena Sharma, Ashish Kumar Singh, Sanket Borad, Gaurav Kr Deshwal and Sunita Meena
59.	TECHNOLOGY FOR THE PREPARATION OF SPRAY DRIED WHEY PROTEIN CONCENTRATE-IRON (WPC-FE) COMPLEX FORTIFIED BISCUITS	Kamal Gandhi, Indrajeet Singh Banjare and Sumit Arora
60.	PROCESS TECHNOLOGY FOR DRY-CRYSTALLIZED PHIRNI MIX	Menon Rekha Ravindra, Monika Sharma and H C Devaraja
61.	PROCESS TECHNOLOGY FOR DRY-CRYSTALLIZED KHEER MIX	Menon Rekha Ravindra, Monika Sharma and H C Devaraja
62.	PROCESS TECHNOLOGY FOR DRY-CRYSTALLIZED GASAGASE PAYASAM MIX	Menon Rekha Ravindra, Monika Sharma and H C Devaraja
63.	COW GHEE ENRICHED WITH NATURAL POLYPHENOLS FOR ENHANCED SHELF LIFE	Laxmana Naik N., Shivli Jha, Priyanka Singh Rao, K. Jayaraj Rao, Sathish Kumar M.H., Rekha R. Menon and F. Magdalene
64.	TECHNOLOGY FOR PREPARATION OF PROTEIN RICH CHEESE SQUEEZE	Devaraja, H.C., Jayaraj Rao, K., Sathish Kumar M.H., Monika Sharma and Manoj Kumar C.T.
65.	TECHNOLOGY FOR PREPARATION OF MILK-MILLET BASED PROTEIN RICH DAIRY DIP	Devaraja, H.C., Jayaraj Rao, K., Monika Sharma, Sathish Kumar M.H. and Gopal Gadewar
66.	TECHNOLOGY FOR PREPARATION OF MILK-MILLET BASED COMPOSITE DAIRY SPREAD	Devaraja, H.C., Jayaraj Rao, K., Monika Sharma, F Magdaline Eljeeva Emerald and Mr. Omkar D.T.

67.	TECHNOLOGY FOR THE PREPARATION OF LOW LACTOSE KHOA	Raman Seth, Ankur Aggarwal and Kamal Gandhi
68.	TECHNOLOGY OF GHEE RESIDUE INCORPORATED ENERGY BAR	Monika Sharma, Amanchi A Sangma, K Jayaraj Rao, Menon Rekha Ravindra and Laxmana Naik N
69.	TECHNOLOGY FOR THE PREPARATION OF INDIAN ARTISANAL CHEESE	Latha Sabikhi, Pravin Bhongle, Jeetmal Meena, Sathish Kumar MH and Yogesh Khetra
70.	TECHNOLOGY FOR PRODUCTION OF REDUCED SUGAR BURFI WITH NATURAL SWEETENERS	Sathish Kumar, M.H., Amal Biswas, K.V., Jayaraj Rao, K., Devaraja H. C. and Laxmana Naik, N.
71.	A PROCESS FOR THE SEPARATION OF GLYCOMACROPEPTIDE AND OTHER PROTEIN FRACTIONS FROM CHEESE WHEY	Rajan Sharma, Neelima Sharma, Y.S. Rajput, Kamal Gandhi and Bimlesh Mann
72.	TECHNOLOGY OF RICOTTA CHEESE FROM BUFFALO MILK	Sangita Ganguly, Yogesh Khetra, P. Narender Raju and Latha Sabikhi
73.	TECHNOLOGY OF PROBIOTIC RICOTTA CHEESE FROM BUFFALO MILK	Sangita Ganguly, Bhagwat Sameer Kisan, Yogesh Khetra, P. Narender Raju and Latha Sabikhi
74.	GHEE-RESIDUE POWDER AND PROCESS OF PREPARING THE SAME	Ganga Sahay Meena, Aakash Gill, Yogesh Khetra, A. K. Singh, Sumit Arora
75.	A PROCESS FOR PREPARATION OF MILK PROTEIN FORTIFIED EGGLESS MUFFINS	Kaushik Khamrui, Rishi Kumar Puri and Writdhama Prasad
76.	TECHNOLOGY FOR REDUCED ENERGY CONSUMPTION DURING THE CLARIFICATION STEP OF GHEE PREPARATION	Wrtidhama Prasad, Shubham Kumbhare, Kaushik Khamrui and Shaik Abdul Hussain
77.	PRODUCTION AND ENCAPSULATION OF DPP-IV INHIBITORY PEPTIDES IN DOUBLE EMULSION MATRIX	Shaik Abdul Hussain, Ashok Kumar, Swapnil Ramrao Patange, Latha Sabikhi, Sathish Kumar, M.H., Prashant Shelke, Rajani, C.S., Yogesh Khetra and Sunita Meena
78.	PREPARATION OF MILK KEFIR/WHEY KEFIR DRINK	B.C.Ghosh, M.H. Sathish Kumar, Sonanki Mitra, and Abila
79.	GREEN TECHNOLOGY FOR TEXTURE MODIFICATION OF GHEE	B Surendra Nath, and Laxmana Naik N.
80.	GHEE RESIDUE INCORPORATED CHOCOLATE DAIRY SPREAD	Monika Sharma, Abhishek Singh Kanwar, Devaraja HC and Menon Rekha Ravindra
81.	AN ENERGY EFFICIENT METHOD FOR GHEE FLAVOUR SIMULATION IN BUTTEROIL	Writdhama G Prasad, Piyush Poharkar, Kaushik Khamrui, Shaik Abdul Hussain and Ankit Deep
82.	GOAT MILK BASED PROBIOTIC YOGHURT	Dr. Ashish Kumar Singh, Mr. Dharani Kumar M, Dr. Latha Sabikhi, Dr. Narender Raju Panjagari, Dr. Sumit Arora, Dr. Sudhir Kumar Tomar, Dr. Heena Sharma and Mr. Gaurav Kr Deshwal

Theme: Technologies for Ensuring Quality and Safety of Dairy Products

83.	A NEW RAPID TEST FOR DETECTION OF DETERGENT IN MILK	Rajan Sharma, Y.S. Rajput and Amit Kumar Barui
84.	A NEW STRIP BASED TEST FOR DETECTION OF NEUTRALIZERS IN MILK	Rajan Sharma, Priyae Brath Gautam, Y.S. Rajput and Bimlesh Mann
85.	A NEW STRIP-BASED TEST FOR DETECTION OF UREA IN MILK	Rajan Sharma, Priyae Brath Gautam, Y.S. Rajput and Bimlesh Mann
86.	STRIP BASED TEST FOR DETECTION OF GLUCOSE IN MILK	Rajan Sharma, Y.S. Rajput, Bimlesh Mann and Panchal Bhaveshkumar R

87.	STRIP BASED TEST FOR DETECTION OF HYDROGEN PEROXIDE IN MILK	Rajan Sharma, Y.S. Rajput, Bimlesh Mann and Priyae Brath Gautam
88.	STRIP BASED TEST FOR DETECTION OF MALTODEXTRIN IN MILK	Rajan Sharma, Y.S. Rajput, Bimlesh Mann and Panchal Bhaveshkumar R
89.	A STRIP BASED TEST FOR DETECTION OF SUCROSE IN MILK	Rajan Sharma, Priyae Brath Gautam, Y.S. Rajput and Bimlesh Mann
90.	A STRIP FOR DETECTION OF SODIUM CHLORIDE IN MILK	Rajan Sharma, Y.S. Rajput and Bimlesh Mann
91.	LATERAL FLOW ASSAY-BASED METHOD FOR RAPID DETECTION OF PRESENCE OF BUFFALO MILK IN COW MILK	Rajan Sharma, Archana Verma, Nitin Shinde, Kamal Gandhi and Bimlesh Mann
92.	PAPER STRIP ASSAY FOR RAPID DETECTION OF PESTICIDE RESIDUES	Naresh Kumar, N. Tehri, R. Gopaul, P.K. Sharma, Morab S. and Raghu H.V.
93.	PAPER STRIP BASED ASSAY FOR DETECTION OF ANTIBIOTIC RESIDUES IN MILK	Naresh Kumar, Anand S.P., Shukla R., Suman, P.K. Sharma and Raghu H.V.
94.	TECHNOLOGY TO PREPARE A KIT FOR THE DETECTION OF VEGETABLE OIL/ FATS IN GHEE	Vivek Sharma, Anupama Rani and Sumit Arora
95.	DETECTION OF BUFFALO MILK IN COW MILK USING HANSA TEST SERUM	Archana Verma
96.	METHODOLOGY TO CONFIRM THE PRESENCE OF LARD IN GHEE	Vivek Sharma, Tanmay Hazara, Sumit Arora, Rekha Sharma and Sachinandan De
97.	TWO STAGE ENZYME BASED ASSAY FOR DETECTION OF L. MONOCYTOGENES IN MILK	Naresh Kumar, M. Balhara, G. Thakur, Raghu H.V., V.K. Singh and Kouser S.
98.	TWO STAGE ENZYME ASSAY FOR DETECTION OF ENTEROCOCCI IN MILK AND MILK PRODUCTS	Naresh Kumar, G. Kaur, G. Thakur, Raghu H.V., N.A. Singh, N. Raghav and V.K. Singh
99.	SPORE BASED KIT FOR DETECTION OF ANTIBIOTIC RESIDUES IN MILK AT DAIRY FARM	Naresh Kumar, A. Khan, S. Arora, Raghu H.V., M. Balhara, P.K. Sharma and S. Shaikh
100.	RAPID TEST FOR DETECTION OF E. COLI IN MILK	Naresh Kumar, Ramakant L., Avinash, Bhawna A., Raghu H.V., M. Balhara, S. Kadyan and V. Kumar
101.	RAPID TEST FOR DETECTION OF COLIFORMS IN MILK	Naresh Kumar, Ramakant L., Avinash, Bhawna A., Raghu H.V., M. Balhara, S. Kadyan and V. Kumar
102.	DNA BASED METHOD FOR DIFFERENTIATION OF COW, BUFFALO, SHEEP, GOAT AND CAMEL MILK	Sachinandan De, Sushil Kumar and Devika Goutam
103.	DNA BASED METHOD FOR DIFFERENTIATION OF COW, BUFFALO, SHEEP, GOAT AND PIG MEAT	Sachinandan De, Sushil Kumar and Devika Goutam
104.	PCR READY TEMPLATE DNA PREPARATION BY QUICK BACTERIAL LYSIS SOLUTION	Sachinandan De, Rajib Deb and Parul Chaudhary
105.	APTAMER FOR AFLATOXIN M1	Y.S. Rajput, Shilpi Malhotra and Rajan Sharma
106.	APTAMER FOR BETACASOMORPHIN-7	Y.S. Rajput, Abhishek and Rajan Sharma
107.	PCR BASED METHOD FOR DIFFERENTIATING A1 AND A2 MILK	Sachinandan De and Kailash Jaishwal
108.	TECHNOLOGY ON SPORE BASED STRIP FOR RAPID DETECTION OF SS-LACTAM GROUP IN MILK	Naresh Kumar and Prashant Goel

109.	ELECTROSPUN SMART OXYGEN INDICATING TAG	Narender Raju Panjagari, Shivam Panwar, Ashish Kumar Singh, P.S. Minz and G. K. Deshwal
110.	STRIP BASED TECHNOLOGY FOR EARLY DETECTION OF SUB-CLINICAL AND CLINICAL MASTITIS	Naresh Kumar, Kriti Dua and Bhawani, N
111.	SPORE BASED TECHNOLOGY FOR RAPID DETECTION OF ANTIBIOTIC GROUPS IN AQUA-PRODUCTS	Naresh Kumar, Ramya S and Raghu, H V
112.	PAPER-BASED STRIP FOR THE RAPID DETECTION OF FORMALIN IN MILK	Kamal Gandhi, Farhin Sayyad, Rajan Sharma, Priyae Brath Gautam and Harshitha CG
113.	PANI-PEC PAPER STRIP SENSOR FOR THE DETECTION OF E. COLI IN MILK	Raghu HV, Anjali MK, Bharat G and Naresh Kumar
114.	PANI-PEC PAPER STRIP SENSOR FOR THE DETECTION OF TOTAL BACTERIAL COUNT IN MILK	Raghu HV, Mohit Singh, Prajapathi M and Naresh Kumar
115.	PAPERSTAPH ASSAY FOR VISUAL DETECTION ON STAPHYLOCOCCUS SPECIES IN BOVINE MILK	Sachinandan De, Rajib Deb, Prasanna Pal and Ashutosh Ludri
116.	TECHNOLOGY OF MAKING UNIVERSAL CONTROL LINE IN LATERAL FLOW ASSAY	Y.S. Rajput, Dhiraj K. Nanda and Rajan Sharma
117.	RAPID ANTIMICROBIAL SUSCEPTIBILITY ASSAY FOR DETECTION OF EXTENDED-SPECTRUM β -LACTAMASE, AMPICILLINASE C- β -LACTAMASE AND CARBAPENEM RESISTANCE IN E. COLI ISOLATED FROM MILK	Dr. Naresh Kumar & Prasant Goel
118.	DETECTION OF SORBITOL IN MILK USING PAPER BASED DISCS.	Dr. Vivek Sharma, Ms. Shailja Shinde, Dr. Sumit Arora, Dr. Priyanka Singh Rao, Dr. Richa Singh and Ms. Karra Madhavi Latha
119.	ON-PACKAGE SMART INDICATOR FOR <i>NUTRIMIX</i>	Dr. Narender Raju Panjagari, Mr. Lal Chand Sharma and Dr. Ashish Kumar Singh
120.	ON-PACKAGE SMART INDICATOR FOR SANDESH, A CHHANA-BASED CONFECTION	Dr. Narender Raju Panjagari, Ms. Uma Karprapu, Dr. Sangita Ganguly and Dr. Ashish Kumar Singh
121.	ON-PACKAGE SMART INDICATOR FOR <i>KHOA</i>	Dr. Narender Raju Panjagari, Mr. Rakesh Kumar Raman, Mr. Gautam Kumar and Dr. Ashish Kumar Singh
Theme: Innovative Dairy Equipments		
122.	COOLING SYSTEM FOR VISCOUS DAIRY PRODUCTS	I.K. Sawhney, P.S. Minz, Anshuman Raj Gurjar and Avijit Shaw
123.	PILOT PLANT IN-LINE SYSTEM FOR MANUFACTURE OF TRADITIONAL INDIAN DAIRY PRODUCTS	P.S. Minz, I.K. Sawhney, Birkram Kumar and S.P. Agarwal
124.	PROTOTYPE OF IMPROVED BUTTER MELTING SYSTEM	I.K. Sawhney, Aswin Warriar and P.S. Minz
125.	CONICAL PROCESS VAT (CPV)	S.P. Agarwal, I.K. Sawhney, Birkram Kumar and P.S. Minz
126.	SINGLE STAGE SCRAPED SURFACE HEAT EXCHANGER	P.S. Minz, I.K. Sawhney and Birkram Kumar
127.	MICROPROCESSOR BASED AUTOMATED INSTRUMENTATION SYSTEM FOR PNEUMATIC PANEER HOOP CUM-PRESS UNIT	Chitrnanayak Sinha, M. Manjunatha, F. Magdaline EE and K. Jayraj Rao

128.	RICE PRE CONDITIONING TYPE KHEER MAKING EQUIPMENT	P.S. Minz, Chitranayak Sinha, P.N. Raju and Ashish Kumar Singh
129.	FOOD COLOUR MEASUREMENT SYSTEM COLOUR DESK D1	P.S. Minz, I.K. Sawhney, Chitranayak Sinha and A.K. Dodeja
130.	DEVELOPMENT OF WHEY DEWATERING MECHANISM FOR CHANNA	Vairat Amita D., Chitranayak Sinha, P.S. Minz, J.K. Dabas and Khushbu Kumari
131.	DEVELOPMENT OF AUTOMATIC ENDO-EXO THERMAL UNIT FOR DAHI	Chitranayak Sinha, Ashish Kumar Singh, J.K. Dabas, P.S. Minz and Vairat Amita D.
132.	HYBRID BAKING OVEN	F. Magdaline Eljeeva Emerald, P. Heartwin Amaladhas, M. Manjunatha and B.C. Ghosh
Theme: Innovative Dairy Cultures		
133.	PROBIOTIC BACTERIAL CULTURE FOR PREPARATION OF FERMENTED MILK PRODUCTS WITH IMMUNO MODULATORY ATTRIBUTES	Rajeev Kapila, Suman Kapila, Rohit Sharma, Vamshi Saliganti, Meena Kapasiya and Gulshan Dass
134.	TECHNOLOGY OF SOUR DAHI USING PROLIFIC ACIDIFYING LACTIC CULTURES	Pradip V. Behare, Sudhir Kumar Tomar and Surajit Mandal
135.	MISTI DOI WITH FAST ACIDIFYING HIGH SUGAR TOLERATING LACTIC CULTURE(S)	Surajit Mandal, Sudhir Kumar Tomar and Pradip V. Behare
136.	COST EFFECTIVE FOOD GRADE MEDIUM FOR LACTOBACILLUS SP	Surajit Mandal and Sudhir Kumar Tomar
137.	DIRECT PRODUCT PROBIOTIC (DPP) FORMULATION OF LACTOBACILLUS CULTURE	Surajit Mandal and Sudhir Kumar Tomar
138.	WHEY BASED MEDIUM FOR LACTIC ACID BACTERIA	Surajit Mandal and Sudhir Kumar Tomar
139.	BIOPROCESS FOR DIRECT VAT SET (DVS) MISTI DAHI CULTURE	Surajit Mandal, Sankara Rao N., Siddivinayaka, Sudhir Kumar Tomar and Pradip V. Behare
140.	EXOPOLYSACCHARIDES PRODUCING LACTIC CULTURES FOR PREPARATION OF LOW-FAT LASSI	Pradip V. Behare, Sudhir Kumar Tomar and Surajit Mandal
141.	EXOPOLYSACCHARIDES PRODUCING LACTIC CULTURE FOR PREPARATION OF LOW-FAT DAHI	Pradip V. Behare, Surajit Mandal and Sudhir Kumar Tomar
142.	PROBIOTIC BACTERIAL CULTURE FOR PREPARATION OF FERMENTED MILK PRODUCTS FOR HEALTHY GUT	Rajeev Kapila and Suman Kapila
143.	INDIGENOUS PROBIOTIC LACTOBACILLUS STRAIN LBS2	Sunita Grover, Rashmi H.M. and V.K. Batish
144.	INDIGENOUS PROBIOTIC LACTOBACILLUS STRAIN LRHS3	Rashmi H.M., Sunita Grover and V.K. Batish
145.	INDIGENOUS PROBIOTIC LACTOBACILLUS STRAIN LRE120	Sunita Grover, Rashmi H.M. and V.K. Batish
146.	INDIGENOUS PROBIOTIC LACTOBACILLUS STRAIN LBS4	Sunita Grover, Rashmi H.M. and V.K. Batish
147.	INDIGENOUS PROBIOTIC LACTOBACILLUS RHAMNOSUS NCDC 610	Sudhir Kumar Tomar, Pradip V. Behare, Sandip Basu and Ashish Kumar Singh
148.	INDIGENOUS PROBIOTIC LACTOBACILLUS FERMENTUM NCDC 400 STRAIN	Pradip V. Behare, M. Kolhekar, Sudhir Kumar Tomar and A.K. Mohanty
149.	FAST ACIDIFYING YOGHURT CULTURE FOR GREEK-STYLE YOGHURT	Surajit Mandal, Sudhir Kumar Tomar, Pradip V. Behare, Jyoti and Ravi S. Wankhede
150.	PROBIOTIC CULTURE TO AUGMENT NEONATAL HEALTH OF CALVES	Sachin Kumar, Amrish Kumar Tyagi, Rashmi H.M., Nitin Tyagi, Vinay V.V. and Anukarna Singh

151.	NATIVE VITAMIN B12 PRODUCING LACTOBACILLUS REUTERI NCDC 958/VTCC610B FOR PRODUCTION OF VITAMIN B12 BIO-FORTIFIED SOY CURD	S. K. Tomar, Manorama Kumari, Harshil Kumar Patel and Pradip V. Behare
152.	INDIGENOUS PROBIOTIC STRAIN LACTOBACILLUS PLANTARUM LP91 (MTCC 5690)	Sunita Grover, V K Batish and Rashmi H M
153.	INDIGENOUS PROBIOTIC STRAIN LACTOBACILLUS FERMENTUM LF1 (MTCC 5689)	Sunita Grover, V K Batish and Rashmi H M
154.	TECHNOLOGY OF LOW-FAT SHRIKHAND BY USING EXOPOLYSACCHARIDES (EPS) PRODUCING LACTIC CULTURES	Pradip V. Behare, Harisha M. R. S. K. Tomar and Sanket Borad

Theme: Technologies for Nutrition of Dairy Animals

155.	TOTAL MIXED RATIONS	S.S. Kundu
156.	MANUFACTURING PROCESS FOR FEED BLOCKS	S.S. Kundu
157.	AREA SPECIFIC MINERAL MIXTURE FOR DAIRY ANIMALS	Veena Mani
158.	DEGCURE MIXTURE FOR THE TREATMENT OF DEGNALA DISEASE	Chander Datt
159.	ANIONIC MINERAL MIXTURE FOR REDUCING POSTPARTUM PROBLEMS IN CATTLE AND BUFFALOES	Harjit Kaur, Veena Mani and Amrish Kumar Tyagi
160.	TRACE MINERAL FORTIFIED ANIONIC MINERAL MIXTURE FOR ADVANCED PREGNANT CATTLE AND BUFFALOES	Veena Mani, Harjit Kaur, Amrish Kumar Tyagi and Chander Datt
161.	ADDITIVE COMBINATION FOR IMPROVEMENT IN QUALITY OF SUGARCANE TOPS SILAGE	Nitin Tyagi, Digvijay Singh, Nutan Chauhan, Neelam Kumari Pradeep Vishnu Behare, Sachin Kumar and A.K. Tyagi
162.	CATION BASED MINERAL SUPPLEMENT FOR LACTATING DAIRY ANIMALS	Veena Mani, Chander Datt, Goutam Mondal and Shimla Yadav
163.	AUTOCHTHONOUS CALVES-ORIGIN PROBIOTIC LIMOSILACTOBACILLUS REUTERI BFE7	Sachin Kumar, A.K. Tyagi, Nitin Tyagi, Rashmi H.M., Anukarna Singh and Vinay VV
164.	POST-PARTUM REPRODUCTION AUGMENTING POLYHERBAL MIXTURE FOR DAIRY CATTLE AND BUFFALOES	A. Kumaresan, Phule Japheth, P. S. Oberoi and A. Manimaran
165.	AREA-SPECIFIC MINERAL MIXTURE (KALMINERS) FOR LIVESTOCK IN THE LOWER GANGETIC REGION OF WEST BENGAL	Late M. K. Ghosh, Ajoy Mandal, A. Chatterjee and M. Karunakaran
166.	“KIDLIFE”- MILK SUPPLEMENT TO ENHANCE THE SURVIVABILITY AND GROWTH OF KIDS	Late M. K. Ghosh, Ajoy Mandal, M. Karunakaran and T. K. Dutta

Other Technologies

167.	BUFFALO MAMMARY EPITHELIAL CELL LINE (BUMEC ND1)	A.K. Mohanty, J.K. Kaushik, Sudarshan Kumar and A.K. Dang
168.	A DEVICE FOR DIALYSIS OF SAMPLES IN MICROLITER VOLUME	Y.S. Rajput and Reena Sodhi
169.	A MULTIPURPOSE DEVICE FOR DIALYSIS, CONCENTRATION AND BUFFER EXCHANGE OF SAMPLES IN MICROLITER VOLUME	Y.S. Rajput and M.P. Divya

170.	NOVEL RNA ISOLATION METHOD FROM LIVER TISSUE OF RECALCITRANT ANIMAL SPECIES TO OBTAIN NGS (NEXT GENERATION SEQUENCING) QUALITY	Suneel Kumar Onteru, Dheer Singh, Davinder Sharma and Naresh Golla
171.	NOVEL RNA ISOLATION METHOD FROM ADIPOSE TISSUE OF RECALCITRANT ANIMAL SPECIES TO OBTAIN NGS (NEXT GENERATION SEQUENCING) QUALITY	Suneel Kumar Onteru, Dheer Singh, Davinder Sharma and Naresh Golla
172.	LIPID AND WATER SOLUBLE YELLOW NATURAL COLOURING INGREDIENT FROM BIO-WASTE	Neelam Upadhyay, Swati Tiwari, Hemant Thawkar, Ravinder Malhotra and Ashish Kumar Singh
173.	TECHNOLOGY FOR PREPARATION OF ENCAPSULATED FLAXSEED OIL FOR ITS APPLICATIONS IN FOODS	Neelam Upadhyay, Hemant Thawkar, Ganga Sahay Meena and Ashish Kumar Singh
174.	SPERM FUNCTION-BASED BULL FERTILITY ASSESSMENT TECHNOLOGY	A. Kumaresan
175.	DUAL TECHNIQUE RUMEN PROTECTED B-COMPLEX VITAMINS	Dr. Bandla Srinivas and Dr. Dhinesh Kumar Ramaswamy
176.	BUFFALO SALIVA SCOPE, AN ESTRUS IDENTIFICATION KIT	Suneel Kumar Onteru, Dheer Singh, Ravinder, Gangu Naidu
177.	EXTENDER FOR THE PRESERVATION OF BLACK BENGAL BUCK SEMEN	M. Karunakaran, Ajoy Mandal, Mohan Mondal, Subrata Kumar Das