



# SMART DAIRY SOLUTIONS

Direct Supplies from Reputed Manufacturers at Competitive Prices



# Smart Dairy Solutions

Welcome to a new chapter in our commitment to the dairy industry!

Recognising the pivotal role that quality equipment plays in the dairy industry, NCDFI, in collaboration with NDDB Dairy Services (NDS), ventured into 'Smart Dairy Solutions', i.e., supply of top-quality Dairy / Farm Equipment, etc., to various stakeholders.

We aim to understand and meet the unique needs of milk producer organisations, i.e., NCDFI member dairy cooperatives and the milk producer companies promoted by NDS. We are committed to achieving cost-effectiveness through efficient negotiation and securing beneficial deals by assimilating the requirements of milk producer organisations across the country. By pooling the requirement, uniting our efforts and leveraging collective bargaining power, we work to ensure that all stakeholders in our collective endeavours benefit from the strategic collaborations.



**National Cooperative Dairy  
Federation of India Limited**

Estd. 1970

National Cooperative Dairy Federation of India Ltd (NCDFI) is part of a vertically integrated multi-tier structure, which encompasses 28 State Cooperative Dairy Federations/apex unions at the state/UT level, 240 District Cooperative Milk Producers' Unions, and 2.30 lakh Village Cooperative Milk Producers' Societies at the grassroots level.

NCDFI, being an apex organisation, plays a pivotal role in facilitating the operations of dairy cooperatives through coordination, networking, and advocacy. The core activities of NCDFI encompass coordinating the institutional sale of milk and milk products to the Ministry of Defence, ITBP, and IRCTC. Additionally, NCDFI plays a vital role in genetic improvement through the distribution of Superior Animal Genetics (SAG) brand semen doses, fosters cooperative development through capacity building, and provides an electronic trading platform, NCDFI eMarket, to ensure transparency, equity, and economic advantages for the various member dairy cooperatives.



NDDB Dairy Services (NDS), a wholly-owned subsidiary of National Dairy Development Board (NDDB), serves as the operational arm for field activities related to promoting Milk Producer Companies (MPCs) and Productivity Services apart from providing technical and management services. NDS facilitates the establishment of 'Producer Owned Enterprises', operating on principles of mutual assistance. It has successfully established 22 MPCs across 10 states covering 145 districts, notable among them being Maahi, Shreeja, Paayas, etc.

Additionally, NDS oversees two major semen stations in Tamil Nadu and Maharashtra, along with the management of one semen station each in Gujarat and Uttar Pradesh, all of which stand as among the largest and the best semen stations in the country. NDS is committed to providing affordable, high-quality genetics to dairy farmers and performs key operations encompassing semen production, embryo production, fodder production, animal sales, training and more.

Embark on this journey with us as we strive to elevate the standards of the dairy industry together. Thank you for choosing us as your trusted partner in dairy excellence.





## At a Glance

Category	Brand
Frozen Semen Doses Embryos & Live Stock	
Milking Machines	
Cow Mats	
Milk Cans	
Cow Collar Device	
Cryocans	 
Ear Tags	
Applicators	
AI Sheaths	
AI Applicator Device	
Veterinary Gloves	



# Milking Machines

## Product Specifications

Sr.No.	Particulars	1 Cluster-1 Bucket(Cow)/2 Cluster-2 Bucket(Cow)
1	Make	IDMC
2	Type	Fixed/Trolley
3	No of Milking Cluster	1 /2 Nos
4	No of Milking Bucket	1 /2 Nos
A	Vacuum System	
A1	Vacuum Tank material of construction, Capacity, Safety	Hot dip galvanized, minimum capacity 15 ltr, transparent lid
A2	Electric motor with cable	1 hp single phase, 1440 rpm with on off switch (1 No)
A3	Vacuum Pump	Direct coupled with motor, oil lubricated, 190 LPM (1 No)
A4	Vacuum Line (only specification as a guide line)	40 mm 6 kg density PVC pipes and fittings make : 50 ft (not in the scope of supply to be purchased by farmer)
A5	Vacuum Regulator	Spring Loaded vacuum 44 to 48 kPa adjustable (1 No)
A6	Vacuum gauge	Dial Type, 0 to (-)100 kPa/(-) 360 mm Hg range (1 No)
A7	Vacuum valves	3 Nos for single bucket / 6 Nos for double bucket
B	Milking Can Assembly (with Lid)	(1/2)
B1	Quantity in No	One/ Two
B2	Milk can , material of construction	AISI 304
B3	Capacity	25 ltr
B4	Finishing and carrying	Seamless finish, with Can carrying handle and rounded bottom (Dairy Finish)
C	Pulsator-Mounted on can lid with adaptor/ check valves:	
C1	Qty	1 No pneumatic per bucket
C2	Pulse Rate/ Pulse ratio	60 pulses per min/ 60:40
D	Milk Tube	
D1	Qty (No)	1.9 mtr Food grade
D2	Short pulsation tube	With every teat cup short pulsation tube for pulsation of liners
D3	Double pulsation tube	It is attached to pulsator and milk claw
D4	Food safety	Nontoxic, food grade, comply Bfr /FDA standards
E	Milking Cluster / Claw	
E1	Qty (No)	1 No per bucket
E2	Cluster weight/ Claw volume	Minimum 2000 gram/ minimum 300 CC transparent
E4	Air bleed/ nozzle	Should have air admission hole
E5	Liners	Nontoxic, food grade, comply Bfr / FDA standards
E6	Cleaning	Sets of cleaning brush included one long brush for milk tube cleaning and short brush for rubber liner cleaning
E7	SS teat cups	SS 304 suitable to liners



## Milking Machines (Mini Milker)

Robust, small, easy to handle, lightweight and portable

Entire structure made of SS304

Sturdy wheels for farm conditions

0.75 hp Monobloc self-lubricated vacuum pump with flow rate of 150LPM @ 50kPa

Alternating Pneumatic pulsator set at 60:40 ratio and 70 ppm

300 cc milk claw with optimum weight, sturdy with high flow rate

20 ltr SS304 Can and cover

Regulator, gauge set at optimum milking vacuum







## Milking Machines

(Single/Double Bucket Fixed Type)

Vacuum System is separately installed not to disturb the animals

Easy to install vacuum pipeline close to the cows

Easy to operate two buckets assembly's milking two cows at a time

Efficient, hygienic, and consistent milking

Gentle to the teat and udder tissue

Faster and better than hand milking

Low on maintenance and prompt after-sales service

Easy and pleasant for the milker - more natural for the animal

Quick, complete and safe milking of cows





## Milking Machines (Trolley Type)

Easy to operate

Trolley model is easily maneuverable

Efficient, hygienic, and consistent milking

Gentle to the teat and udder tissue

Faster and better than hand milking

Low on maintenance and prompt after-sales service

Easy and pleasant for the milker – more natural for the animal

Quick, complete and safe milking of cows





## Cow Mats

The health, well-being and overall productivity of cows & buffaloes depend upon lying down and resting time

This resting time is in turn influenced by the lying surface within cow sheds and barns

70% of rumination, a vital aspect of bovine health occurs during periods of lying down, and longer rumination times directly influence productivity

Rubber mats of diverse designs and varying thickness are an efficient solution to cushion rigid concrete flooring

Our range of mats offer swift remedy, elevating cow comfort by providing a soft, hygienic and inviting resting surface for cows and buffaloes

Exclusively designed to fit most Indian cows and buffalo breeds

Soft and comfortable for quick relief from exhaustion

Easy to install and easy to maintain

Excellent lasting grip for both wet and dry conditions

Anti-fungal and Anti-microbial

Long lasting compared to foam mats



### Product Details

Thickness	: 16 mm
Size	: 4' width x 6.5' length
Weight	: 28 to 30 kg
Make	: IDMC
Variants	: Regular / Interlock





## SS Milk Cans

### Product Details

Capacity	: 10 litres ( $\pm 5\%$ )
Raw material hardness	: Less than 220 BHN
Weight	: 1.550 kg ( $\pm 5\%$ )
Overall height	: 285 mm ( $\pm 5\%$ )
Depth	: 250 mm ( $\pm 5\%$ )
Inside dial	: 224 mm ( $\pm 5\%$ )
Mouth	: 172 mm ( $\pm 5\%$ )
Diameter of bottom bend	: 205 mm ( $\pm 5\%$ )
Wall thickness	: 0.7 mm ( $\pm 5\%$ )
Bottom thickness	: 0.7 mm ( $\pm 5\%$ )
Pattern	: Without Joint (Monoblock)
Variants	: SS N1 / SS 304 Grades



The body of Milk Can is made without welding to avoid cracking and corrosion

Manufactured by  
Steel Authority of India Ltd (SAIL), a Maharatna Company





## Collar Device

### 24x7 Monitoring for Heat & Health

- 95% Plus Accuracy
- For Buffaloes, Crossbred & Indigenous Cows

### Eating & Rumination

- Increased milk yield
- Alerts for low rumination indicating poor health
- Monitor overall wellbeing

### Health Monitoring

- Better animal health 365 days a year
- Early identification of diseases

### Heat Cycle Detection

- Highly accurate heat detection
- Alerts for optimal window for Artificial Insemination



### Product Details

Warranty	5 Years
Battery Life	5 Years (Charging not required)
Location Tracking	GPS Enabled
ConnectedCow Platform	5 Years (Free)
Installation and Services and Support	5 Years (Free)



# Cryocans

Sr.	Container Name	Capacity (Ltrs)	Static Evaporation Loss Rate Ltrs/day	Static Holding Time (No. of Days)	Canister OD (mm)	Canister Height (mm)	No. of Canisters	Straw Capacity (Single level)		Straw Capacity (Double level)		Model
								0.5 ml	0.25 ml	0.5 ml	0.25 ml	
1	BA-0.5	0.56	0.118	5	26	120	5	110	250	-	-	
2	DS-1	0.9	0.097	9	26	120	1	60	120	-	-	
3	BA-1.5	1.5	0.097	15	17	120	5	110	250	-	-	
4	BA-2X	2.2	0.125	18	38	120	6	720	1,560	-	-	
5	BA-03	3.9	0.135	29	38	120	6	720	1,560	-	-	
6	BA-7	7.9	0.135	58	38	120	6	720	1,560	-	-	
7	BA-11	11.6	0.14	83	38	120/280	6	720	1,560	1,440	3,120	
8	BA-11X	11	0.25	44	68	120/280	6	2,190	4,920	-	-	
9	BA-20	20.5	0.118	174	38	120/280	6	720	1,560	1,440	3,120	



**Cryocans**

Sr.	Container Name	Capacity (Ltrs)	Static Evaporation Loss Rate Ltrs/day	Static Holding Time (No. of Days)	Canister OD (mm)	Canister Height (mm)	No. of Canisters	Straw Capacity (Single level)		Straw Capacity (Double level)		Model
								0.5 ml	0.25 ml	0.5 ml	0.25 ml	
10	BA-23	23.5	0.35	67	68	120	9	3,285	7,380	-	-	
11	BA-35	33.5	0.118	282	38	120/280	6	720	1,560	1,440	3,120	
12	BA-42	41.4	0.21	197	56	280	7	-	-	3,850	8,470	
13	Jumbo-12	47.3	0.38	124	72	280	11	-	-	11,000	24,000	
14	TA-1.5	1.5	0.097	15	26	120	1	60	120	-	-	
15	TA-26	25.5	0.25	102	-	-	-	-	-	-	-	
16	TA-35	33.3	0.3	111	-	-	-	-	-	-	-	
17	TA-55	51.5	0.43	120	-	-	-	-	-	-	-	















**INOXCVA<sup>®</sup>**  
HISTORICALLY FUTURISTIC



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Sr.	Container Name	Capacity (Ltrs)	Static Evaporation Loss Rate Ltrs/day	Static Holding Time (No. of Days)	Canister OD (mm)	Canister Height (mm)	No. of Canisters	Straw Capacity (Single level)		Straw Capacity (Double level)		Model
								0.5 ml	0.25 ml	0.5 ml	0.25 ml	
1	IDS-1	1.15	0.080	14	1.1/28	4.7/120	1	75	150	-	-	
2	IX-2	1.75	0.080	21	1.0/25	4.7/120	5	290	600	-	-	
3	IR-03	3.9	0.135	29	1.5/38	4.7/120	6	720	1,560	-	-	
4	IR-7	7.8	0.114	68	1.5/38	4.7/120	6	720	1,560	-	-	
5	IR-10	10.5	0.117	90	1.5/38	4.7/120	6	720	1,560	1,440	3,120	
6	IX-20	20.5	0.097	211	1.5/38	4.7/120	6	720	1,560	1,440	3,120	
7	IX-35	34	0.118	282	1.5/38	4.7/120	6	720	1,560	1,440	3,120	
8	IX-47	47	0.370	127	2.8/72	11/280	11	-	-	8,000	18,000	
9	IN-30	31.3	0.280	112	-	-	-	-	-	-	-	
10	IN-50	50	0.400	125	-	-	-	-	-	-	-	





## Ear Tags & Applicators

Polyurethane Tags that are durable, tamper proof, tear resistant and have a high flexibility

Resistant to abrasion, UV Radiation and microbial attacks

Customised permanent indelible laser marking

Free and frictionless rotation of male and female tag. Allows aeration and prevents infections

Plastic and metal tip male tag

Light weight, aluminium die cast universal applicator to suit all sizes of MTPI ear tags

Applicator is automatic spring loaded, has a quick release upper jaw and comes with dual locking facility



Applicator



42 x 50 mm



57x80 mm/55x67 mm



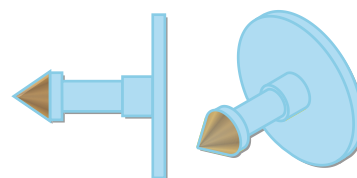
58 x 68 mm



35 x 45 mm



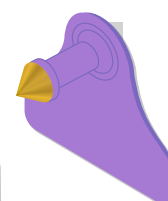
38 x 48 mm



Round Male Tag



Round Tag 28 mm



Male Tag 36 x 40 mm



# Veterinary Shoulder Protect Gloves

## Product Details

LD White / Colour

430 to 450 gm

480 to 500 gm

580 to 600 gm

HM White / Colour

270 to 280 gm





## AI Single Packed Sheaths

### Product Details

Unique 4 side seal pouch packing

Rear end can tear off easily for loading sheaths into AI syringe without touching sheaths

Automatic packing with minimum chances of human error

No involvement of human hand touching which avoids contamination

Packing is done in clear room atmosphere to maintain hygiene

Very safe handling and transportation

Ideal packing for Door-to-Door Insemination

Factory sterilisation effect lasts till end use

No contamination & efficient conception results





## AI Applicator Device

### Product Details

Suitable for 0.25 ml straws very precisely made for best insemination results

Made from special medical grade Stainless Steel with proper tensile strength

All components are made on CNC machines to maintain uniform dimensions

Supplied with moulded container with threaded cap so that AI device can be disinfected using disinfectant in container itself



# Contact



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(A unit of NDDB Dairy Services)

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in f    NCDFIcoop



Reputed manufacturers of dairy equipment, accessories, tools, consumables, veterinary items, etc., are invited to collaborate in this initiative.