

MacPro

Advanced Milk Procurement Solution



Automatic Milk Data
Collection and
Milk Procurement
Accounting Solution for
Milk Dairy Operations.

MacPro is an advanced Embedded Data Processing System for Milk Procurement Accounting, designed using “System On Modules” Technology, incorporating greater flexibility and improved versatility of the product.

This product runs on eLINUX OS & brings the power of desk top computing at a small embedded form factor. Carefully crafted desk-top form factor occupies very little desk space and consumes only a fraction of the power (<10%) consumed by regular desk top PC CPU, saving considerable monthly power bill.

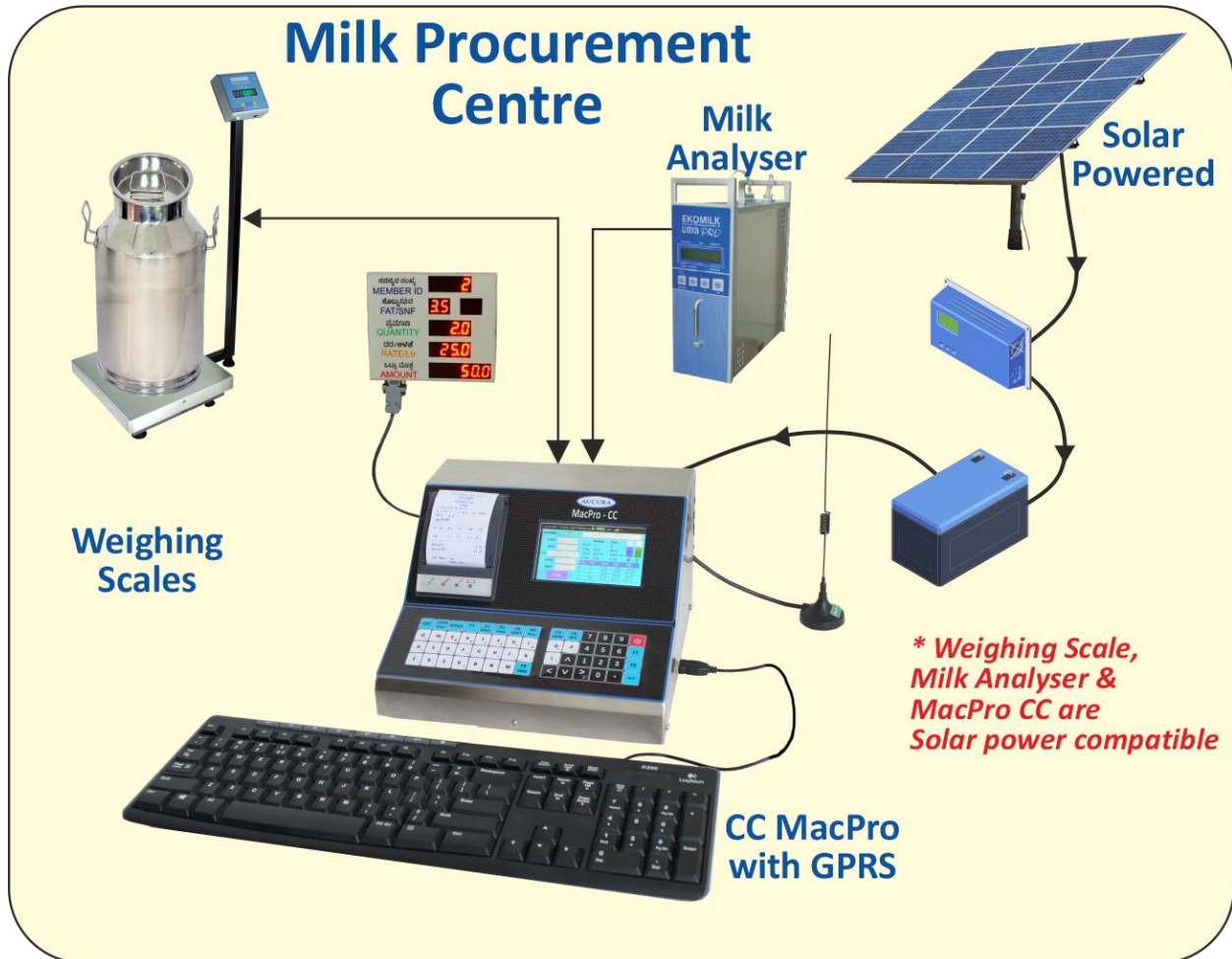
It's rugged hardware design withstands all the vagaries of plain, open and dusty environment of the milk procurement sites, requiring almost nil maintenance

Design and Developed by



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- Automatic capture of Reading from Weighing scale and Analyser
- Reduced Manual Work
- Automatic up-date of procurement data to HQ Server ERP
- Highly Reliable Embedded Hardware with Serial Interface to interface Milk Analyser & Weigh scale
- LMD approve High quality digital Electronic Weigh scales
- Integrated GSM data modem for on-line data transfer to remote dairy (self-owned) Server though GSM Network
- Supports 2G / 4G data modems (Dairy's choice)
- All the hardware modules are configurable to work on AC / DC power
- Optional Solar Power based Battery supported
- Low Power operation – max. of 15 watts power consumption
- MacPro-MPC Device for milk procurement from Members / Farmers – One per Milk

Milk Procurement Centre Report

Procurement Bill Wise Report

From Date : To Date : BMC Name :

Society Name : Shift NO : Shift Type :

Route Code : Cattle Type : OrderBy :

Milk Quantity Variation Zero Milk Quantity Zero FAT

Refresh

ExportXLS-1

ExportXLS-2

ExportPDF

BMC : MILK PRODUCT, Society : MU-D20-THULAIYANATHAM, From : 04-May-2021, To : 04-May-2021, Shift No : ALL, Shift : ALL, 8, Cattle : ALL

Summary Information

Cattle Type	BillCnt	Good Milk Qty	Avg FAT	Avg SNF	Avg CLR	Avg RATE	Tot AMT
Cow	14	193.100	4.5	8.3	27.8	29.19	5635.68
Total	14	193.100	4.5	8.3	27.8	29.19	5635.68

Detail Information

SIno	SFNo	ShiftType	BillDate	BillTime	Code	SocietyName	MemberID	Route	VanNumber	Cattle	FAT	SNF	CLR	Qty	Rate	Amount
1	848	Evening	04-May-2021	19:14:16	D20	MU-D20-THULAIYANATHAM	2	8		Cow	5.1	8.2	27.1	15.600	30.20	471.12
2	848	Evening	04-May-2021	19:10:41	D20	MU-D20-THULAIYANATHAM	4	8		Cow	4.7	8.1	26.9	20.400	29.14	594.46
3	848	Evening	04-May-2021	19:16:25	D20	MU-D20-THULAIYANATHAM	3	8		Cow	4.9	8.3	27.6	9.100	29.98	272.82
4	848	Evening	04-May-2021	19:25:54	D20	MU-D20-THULAIYANATHAM	5	8		Cow	4.4	8.8	29.9	10.000	29.98	299.80
5	848	Evening	04-May-2021	19:38:18	D20	MU-D20-THULAIYANATHAM	1	8		Cow	5.2	8.4	27.9	6.300	30.83	194.23
6	848	Evening	04-May-2021	19:54:18	D20	MU-D20-THULAIYANATHAM	6	8		Cow	4.3	8.4	28.4	32.100	28.92	928.33
7	848	Evening	04-May-2021	19:55:21	D20	MU-D20-THULAIYANATHAM	50	8		Cow	4.7	8.3	27.6	0.500	29.56	14.78

BMC Center



- Procurement detail are available in Advance for early planning in Processing Plants.
- Centralized Rate-chart management
- Easy to prepare Payment reports
- Collection centre equipment's health status monitoring and Management from BMC – is optional
- MacPro- BMC Device Set for milk procurement from Agents & Farmers – One set of master – slave devices Per Bulk Milk Procurement Plant (in master – slave configuration modes)
- Tricom make Platform Scales – 300 Kg to 750 Kg capacity
- Interface for BOWL & PF scales
- Interface to Milk Analysers (3/6/10 Analysers per MacPro Setup)

Bulk Milk Collection Centre Report

BMC Procurement Bill Wise Report

From Date : To Date : BMC Name :

Machine Name : Shift NO : Shift Type :

Milk Type : Route Code : Category :

Cattle Type : Agent Code :

OrderBy :

Edited Bill
 Milk Quantity Variation
 Zero Milk Quantity
 Zero FAT

Refresh

Export-1

Export-2

Name : MILK PRODUCT, From : 04-May-2021, To : 04-May-2021, Shift No : ALL, Shift : ALL, Milk Type : ALL, Route : ALL, Category : ALL, Cattle : ALL

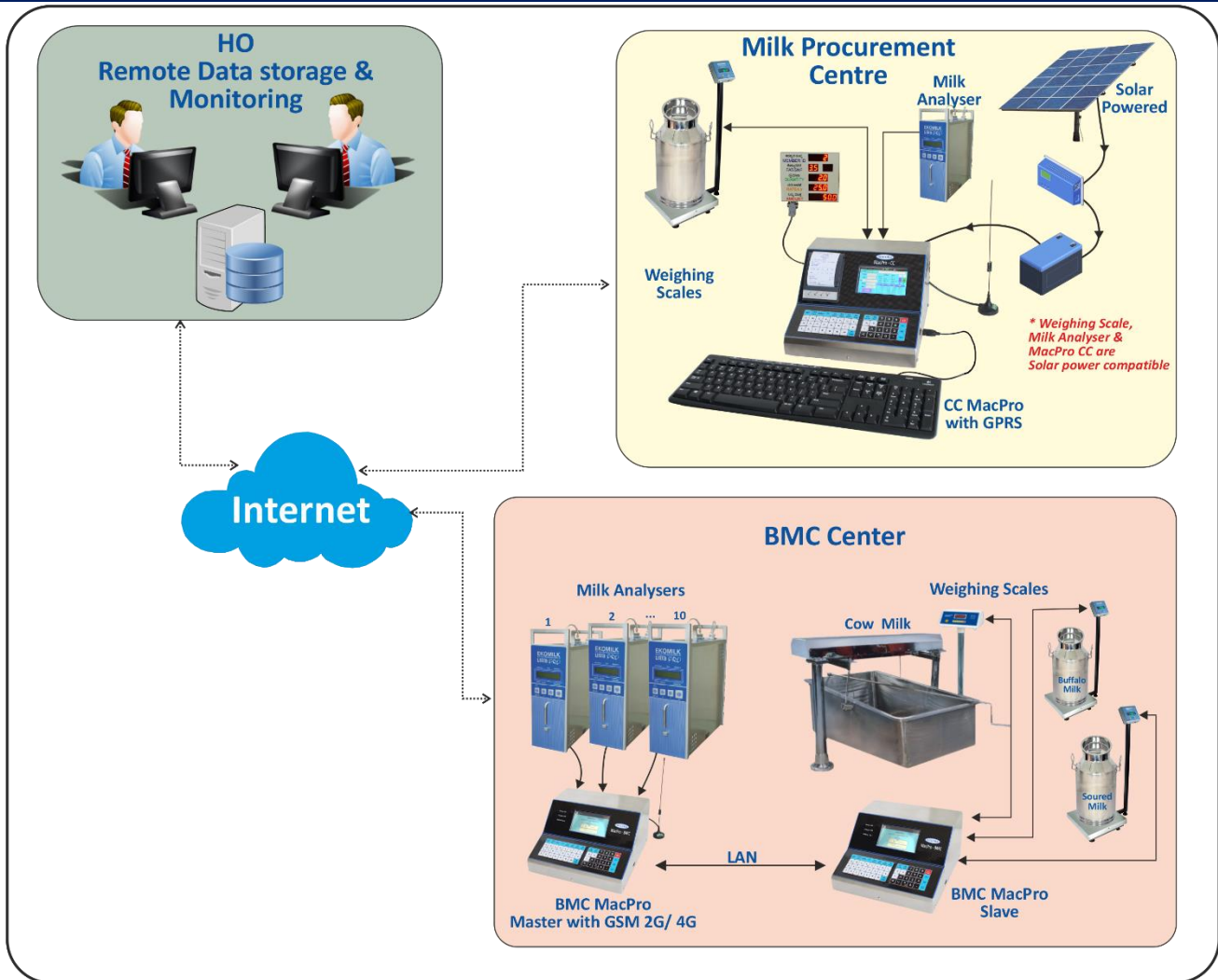
Summary Information

Cattle Type	Good Milk Qty	Soured Milk Qty	Total Qty	Avg FAT	Avg SNF	Avg CLR
Cow	42384.900	0.000	42384.900	4.4	8.1	27.4
Total	42384.900	0.000	42384.900	4.4	8.1	27.4

Detail Information

Sno	SFNo	ShiftType	ProcuredDate	User	Route	AgentID	VanNumber	Cans	Cattle	Qty	FAT	SNF	CLR	Soured	EditCount
1	1944	Evening	04-May-2021		A	2	TN	3	Cow	99.200	5.5	7.9	25.8	No	0
2	1944	Evening	04-May-2021		A	3	TN	1	Cow	10.400	3.9	8.1	27.8	No	0
3	1944	Evening	04-May-2021		A	5	TN	1	Cow	28.700	3.8	8.1	28.0	No	0
4	1944	Evening	04-May-2021		A	7	TN	2	Cow	48.700	4.2	7.9	27.0	No	0
5	1944	Evening	04-May-2021		A	8	TN	1	Cow	27.500	4.1	8.0	27.6	No	0
6	1944	Evening	04-May-2021		A	10	TN	1	Cow	24.600	3.8	8.2	28.3	No	0

Integrated Architecture



- Total solution covering the automation of Milk Procurement operations at Procurement Centres & BMC centres
- Handles the automatic use of Milk Analysers and the Weigh Scales at the Procurement Centres to avoid any manual errors while capturing data from these devices
- Offers Fool proof method of data collection from Milk Procurements to ensure (CC & BMC Centres) and automatic error free data transfer through fool proof data network up to dairy ERP Centres
- Eliminates or avoids all manual data handing errors & data transfer errors at all levels
- Increases the Data collection speeds
- Eliminates or Reduces man power costs, saving expenses for the dairy
- Reduces dependencies on the costly man power, which are in-efficient and under productive
- Eliminates the possibilities all types of mal-practices in the entire milk procurement process
- All procurement related parameters are handled Centrally
- The operations of individual devices such as milk analysers and weigh scales are monitored centrally
- Rugged Embedded unit, eliminates bulky and un-reliable PC based solutions
- GSM network based server connectivity.
- Automated system increases productivity at Collection center and Processing Plants
- Revenue is increased by early planning and less wastages & pilferages
- User Privileged based data presentation for different levels
- Transparent operation increases Farmer's confidence on the Dairy
- MIS reports for defining business strategies
- Easy to expand Automation (or Integration) for other operations (Milk product production, Distribution, Payment collection...)

Milk Procurement Comparison Report

Milk Procurement Comparison Chart

From Date : To Date : BMC Name :

Society Name : Shift Type :

Refresh

Export

"Name : MILK PRODUCT, Society Name : ALL, From : 04-May-2021, To : 04-May-2021 Shift : ALL,

Detail Information

DATE	SHIFT	CODE	CENTERNAME	BMC-PROCUREMENT VALUE						SOCIETY-PROCUREMENT VALUE					DIFFERENCE			
				FAT	SNF	RATE	QTY(Kg)	QTY(Ltr)	AMOUNT	FAT	SNF	RATE	QTY(Ltr)	AMOUNT	FAT	SNF	RATE	QTY(Ltr)
04-05-2021	AM	O3	MU-O-3-SENGALPATTI	4.1	8.2		264.800	255.845		5.0	8.5	31.57	258.000	8144.69	-0.9	-0.3		-2.155
04-05-2021	PM	O3	MU-O-3-SENGALPATTI	4.8	8.3		210.800	203.671		5.3	9.1	32.85	207.800	6826.29	-0.5	-0.8		-4.129
04-05-2021	AM	O7	MU-O-7-PACHAPERUMALPATTI	4.2	8.0		176.500	170.531		4.9	8.2	29.84	170.200	5079.43	-0.7	-0.2		0.331
04-05-2021	PM	O7	MU-O-7-PACHAPERUMALPATTI	4.4	8.1		130.300	125.894		5.2	8.3	30.87	125.800	3883.08	-0.8	-0.2		0.094
04-05-2021	AM	P4	MU-P4-KARUPPANAPATTY	4.4	8.3		80.000	77.295		4.4	8.3	25.69	76.000	1952.11	0.0	0.0		1.295
04-05-2021	PM	P4	MU-P4-KARUPPANAPATTY	5.0	8.5		64.600	62.415		4.4	8.4	31.13	61.800	1923.99	0.6	0.1		0.615
04-05-2021	AM	S28	MU-S-28-B.METUR	4.9	8.4		7.100	6.860		4.3	8.3	28.65	13.300	381.08	0.6	0.1		-6.440
04-05-2021	AM	S7	MU-S7-ERAGUDI	3.8	8.1		305.300	294.976		4.2	8.1	28.52	294.600	8401.24	-0.4	0.0		0.376
04-05-2021	PM	S7	MU-S7-ERAGUDI	4.5	8.2		233.500	225.604		4.5	8.2	28.90	226.500	6545.14	0.0	0.0		-0.896