

SUGARSOFT – Laboratory

PRESENTED BY:



About Us

Cosmosoft Business Solutions (Pvt.) Ltd. is an customized ERP software solutions designed & Implementation Services company based in Lahore, Pakistan since 1997. Pakistan. We have over decades of experience in decision support business solutions that promised high productivity, cost-effectiveness, on-time reporting and integration of all business' processes.

We have successfully implemented our SARP ERP System in Sugar Industry, Engineering & Construction industry, Food manufacturing & FMCG, textile, printing and packaging, marketing & Advertising, Auto & Spare parts manufacturing, trading and services companies.

Our Clients

- **Madina Sugar Mills Pvt Ltd.**
- **Ashraf Sugar Mills Ltd.**
- **SGM Sugar Mills Ltd.**
- **Sindh Abadgar's Sugar Mills Ltd.**
- **Two Star Industries Pvt. Ltd.**
- **Popular Sugar Mills Ltd.**
- **Chashma Sugar Mills Ltd, (Unit I & II)**
- **Premier sugar Mills & distillery Company Ltd.**
- **Chaudhry Sugar Mills Ltd.**
- **Mehran Sugar Mills Ltd.**
- **Jauharabad Sugar Mills Ltd.**
- **Huda Sugar Mills Ltd.**
- **Pasrur Sugar Mills Pvt Ltd.**
- **Noon Sugar Mills Ltd.**
- **Kanjwani Sugar Mills Ltd.**
- **Rehman Hajra Sugar Mills Ltd.**
- **Zamand Sugar Mills Ltd.**
- **JK Sugar Mills Ltd. (I & 2)**
- **Alman Sayyam Sugar Mills Pvt. Ltd.**

Modules



Cane Lab



Process Lab

Introduction

Terminologies

Pol / Pol % : An approximate measure of the sucrose content of the sugar.

Brix %: Brix is a measure of the amount of dissolved solids in a liquid (Sugar + Non-Sugar Contents).

Juice Purity : $\text{Pol \%} / \text{Brix} \times 100$

Recovery : Percentage of Recovery In a sample of 100 KG of Sugarcane.

Hardware Devices :

Pol / Pol % : Polarimeter

Brix % : Refractometer



Polarimeter



Refractometer

Cane Lab – Vehicle Sampling

Bar Code

Cane Sampling

Pol %	Juice Purity:	Recovery:
12.69	95.41	9.05

InPut

Bar Code:

100096

J.Ratio 1

Mill. Ext 0.75

BHR 0.97

BHE 0.98

Pol 51.25

Brix 13.3

Remarks:

Get Reading

Calculate Recovery

New

Save

Close

form loaded

form load ends

Cane Lab Reports - #01

Sugar Mills Ltd.

106 Block D Johar Town Lahore Punjab Pakistan

Season 2014-2015 Shift

Recovery Summary Circle /Village Wise

From : 01-Nov-2014 To : 01-Jun-2015

Print Date 10/08/2018 1:56:52PM

Circle Name	Source Name	N.O.U	Weight Kg	Pol Red	Pol Per	Brix	Purity	Min Recovery	Max Recovery	Avg Recovery
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01 Mureed Shakh

0101	Bappar	47	971,040	0.00	18.36	20.03	91.68	8.00	11.32	9.95
0102	Kundri Wala	63	1,269,605	0.00	18.54	20.02	92.59	8.12	11.89	10.32
0103	Malook Miani	60	1,205,105	0.00	18.29	20.04	91.30	7.85	11.41	9.85
0104	Pir Bux	60	1,268,560	0.00	18.26	20.01	91.28	7.80	11.31	9.77
0105	Chandiyo	35	757,830	0.00	18.28	19.99	91.39	7.41	11.35	9.81
0106	Bond	14	270,295	0.00	18.75	20.19	92.89	9.04	11.17	10.27

Circle Total:	279	5,742,435	0.00	18.37	20.03	91.74	7.41	11.89	9.97
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Cane Lab Reports - #02

Sugar Mills Ltd.

106 Block D Johar Town Lahore Punjab Pakistan

Season 2014-2015 Shift

Recovery Summary Circle /Grower Wise

From : 01-Nov-2014 To : 01-Jun-2015

Print Date 10/08/2018 1:54:19PM

Circle Name	Source Name	N.O.U	Weight Kg	Pol Red	Pol Per	Brix	Purity	Min Recovery	Max Recovery	Avg Recovery
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01 Mureed Shakh

01-01-001	Imdad Ali Khan Dehar	2	29,570	0.00	19.22	22.13	86.87	9.25	9.43	9.34
01-01-002	Farooq Khan	1	17,140	0.00	19.23	20.75	92.67	10.83	10.83	10.83
01-01-003	Habib Ullah	1	26,640	0.00	19.78	21.20	93.30	10.06	10.06	10.06
01-01-006	Riaz Ahmed	1	20,065	0.00	17.63	19.10	92.30	9.90	9.90	9.90
01-01-009	Faiz Ellahi	3	67,930	0.00	19.21	20.95	91.69	10.01	11.32	10.75
01-01-010	Muhammad Hussain	2	41,250	0.00	17.74	19.28	92.00	9.28	9.57	9.43

Cane Lab Reports - #03

Sugar Mills Ltd.

106 Block D Johar Town Lahore Punjab Pakistan

Season 2014-2015 Shift

Recovery Summary Circle /Variety Wise

From : 01-Nov-2014 To : 01-Jun-2015

Print Date 10/08/2018 1:52:30PM

Circle Name	Source Name	N.O.U	Weight Kg	Pol Red	Pol Per	Brix	Purity	Min Recovery	Max Recovery	Avg Recovery
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01 Mureed Shakh

CPF-237	2	48,465	0.00	16.76	17.78	94.24	9.17	9.89	9.53
SPF-234	277	5,693,970	0.00	18.38	20.04	91.72	7.41	11.89	9.98

Circle Total:	279	5,742,435	0.00	18.37	20.03	91.74	7.41	11.89	9.97
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02 Machka

SPF-234	173	3,807,795	0.00	18.46	31.19	91.54	8.01	11.56	10.23
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Circle Total:	173	3,807,795	0.00	18.46	31.19	91.54	8.01	11.56	10.23
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Cane Lab Reports - #04

Sugar Mills Ltd.

106 Block D Johar Town Lahore Punjab Pakistan

Cane Sampling Detail Source Wise

From : 01-Nov-2014 To : 01-Jun-2015

Season 2014-2015 Shift

Print Date 10/08/2018 1:48:45PM

Card No	Grower Name	Indent	Vehicle No	W.O No	Token Date	Shift	Pol Red	Pol Per	Brix Per	Purity	Recovery	
0101	Mureed Shakh											
24	01-05-089	Muhammad Qasim	11	GSM-307	13	06/01/2015 11:52:54	A	0.00	15.93	18.50	86.11	7.41
25	01-03-002	Mumtaz Ahmed	12	GSM-309	14	06/01/2015 11:59:51	A	0.00	17.89	19.30	92.69	8.73
26	01-03-111	Lal Bux	13	GSM-308	15	06/01/2015 12:06:12	A	0.00	16.31	18.00	90.61	7.85
31	01-01-012	Muhammad Ashraf Pathan	14	GSM-315	16	07/01/2015 19:53:48	B	0.00	16.98	19.20	88.44	8.04
32	01-01-098	Abdul Ghafar	15	GSM-316	17	07/01/2015 19:55:16	B	0.00	16.52	18.05	91.52	8.00
35	01-05-020	Lal Muhammad	17	GSM-318	19	07/01/2015 20:58:43	B	0.00	17.64	19.10	92.36	8.59
36	01-05-079	Muhammad Ismail	16	GSM-319	18	07/01/2015 21:29:43	B	0.00	16.94	18.40	92.07	8.23

Cane Lab Reports - #05

Sugar Mills Ltd

106 Block D Johar Town Lahore Punjab Pakistan

Season : 2021-2022

Shift:

Token Lab Sampling Not Performe

From : 18-Nov-2017 To : 18-Nov-2021

Print Date : 18/11/2021 10:20:38AM

Card No	Grower Name	Village	Pass Book No	Indent No	Token Date /Time	Reg No	Work Order	Vehicle No	Token Status	Recovery
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CHAK JHUMRA

1101

GS-CHAK JHUMRA

CART

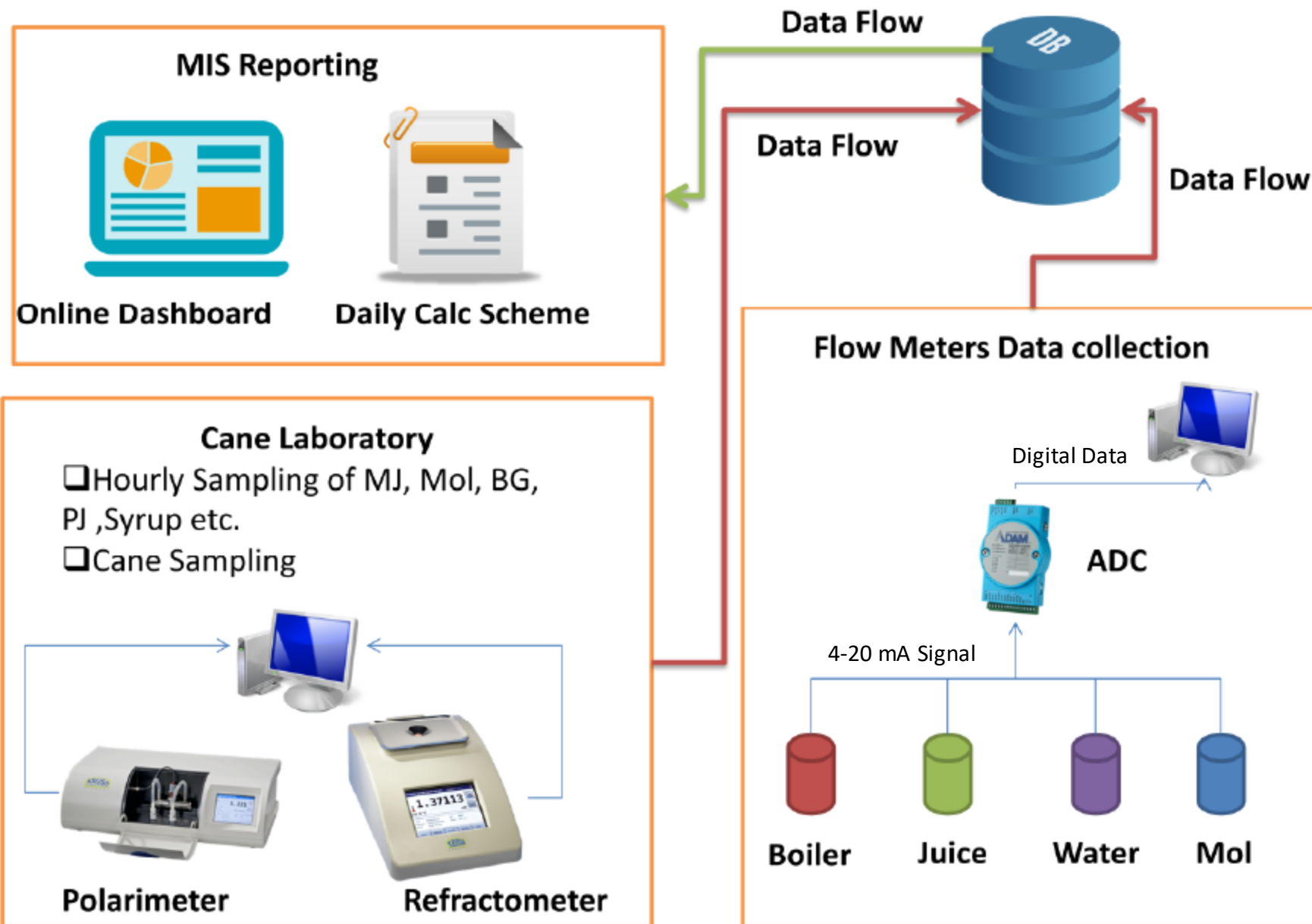
1	Zulfiqar Ali Ab	.	11-01-00001	42	09/11/2021 15:27	0000000	0	CPR	200.00	0.00
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TRUCK

2	Zulfiqar Ali Ab	.	11-01-00001	41	11/11/2021 14:28	0000000	0	CPR	228.00	0.00
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Grand Total

2



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Hourly Analysis	
BAGASSE	
CLEAR JUICE	
FILTER CAKE	
FINAL MOLASSES	
LAST MILL JUICE	
MIXED JUICE	
PRIMARY JUICE	
SYRUP	
CLEAR SYRUP	
DEF. JUICE	
MELT LIQUOR	
FINE LIQUOR	
WATER	

Crushing Day : 18/11/2021

Tandem : Old Tandem


Connect Device

Get Device Values

Save Data

Remove	Mark	Time	Brix	Pol	Moisture	Remarks
Remove	<input type="checkbox"/>	18/11/2021 08:00 AM				
Remove	<input type="checkbox"/>	18/11/2021 09:00 AM				
Remove	<input checked="" type="checkbox"/>	18/11/2021 10:00 AM				
Remove	<input type="checkbox"/>	18/11/2021 11:00 AM				
Remove	<input type="checkbox"/>	18/11/2021 12:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 01:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 02:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 03:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 04:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 05:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 06:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 07:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 08:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 09:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 10:00 PM				
Remove	<input type="checkbox"/>	18/11/2021 11:00 PM				
Remove	<input type="checkbox"/>	19/11/2021 12:00 AM				
Remove	<input type="checkbox"/>	19/11/2021 01:00 AM				
Remove	<input type="checkbox"/>	19/11/2021 02:00 AM				
Remove	<input type="checkbox"/>	19/11/2021 03:00 AM				
Remove	<input type="checkbox"/>	19/11/2021 04:00 AM				
Remove	<input type="checkbox"/>	19/11/2021 05:00 AM				
Remove	<input type="checkbox"/>	19/11/2021 06:00 AM				
Remove	<input type="checkbox"/>	19/11/2021 07:00 AM				

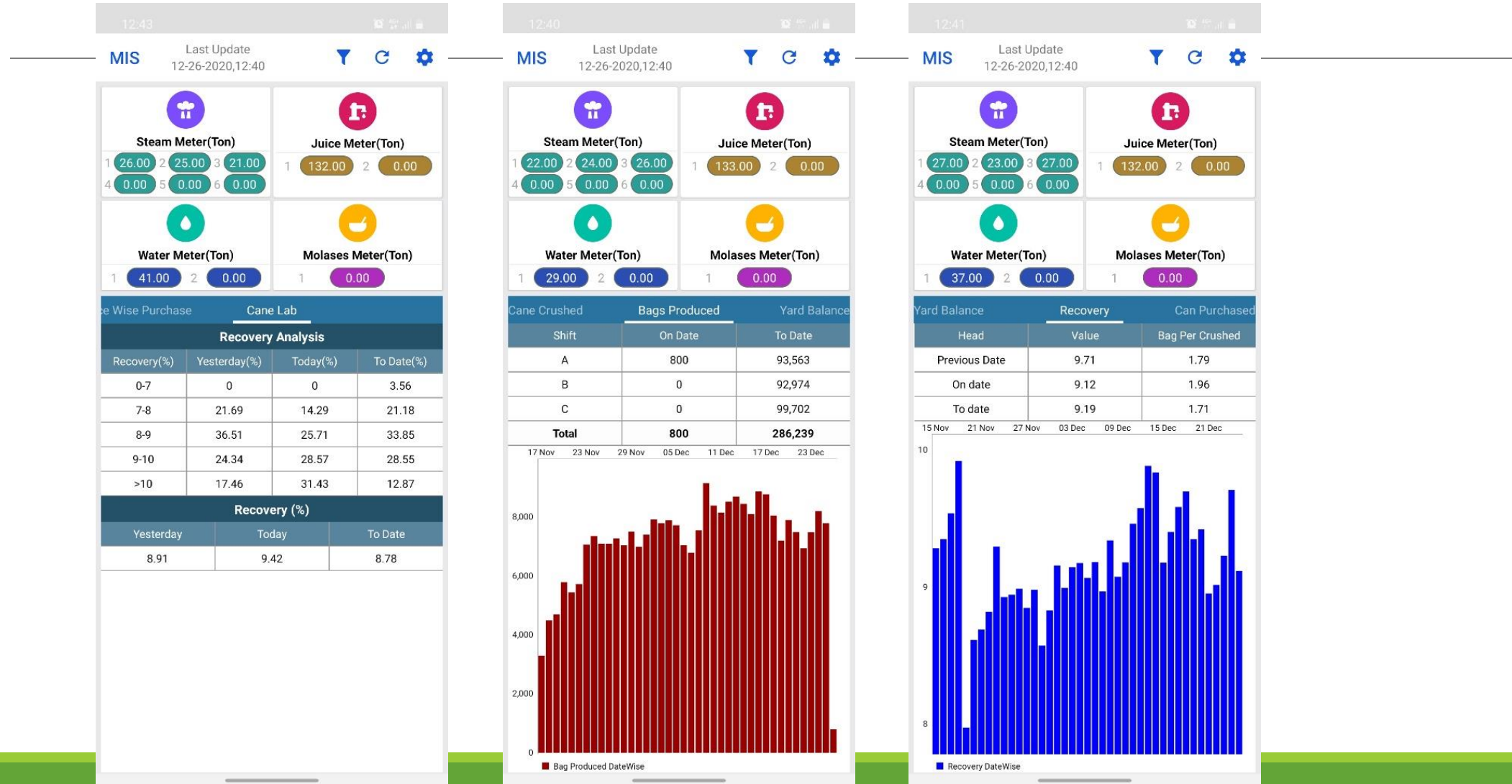
Process Lab – Daily Calculating Scheme

Daily Calculating Scheme			
Transaction Date : <input type="text" value="29/11/2019"/>		Un-Posted	
Pol Brix Percentage			
Pol % Bagas :	<input type="text" value="1.720"/>	Brix % Bagas :	<input type="text" value="2.596"/>
Pol % in Clear Juice :	<input type="text" value="10.710"/>	Brix % in Clear Juice :	<input type="text" value="13.730"/>
Pol % Cake :	<input type="text" value="2.680"/>	Moisture % Cake :	<input type="text" value="76.100"/>
Pol % in Final Molasses :	<input type="text" value="38.000"/>	Brix % in Final Molasses :	<input type="text" value="95.000"/>
Pol % in Last Mill Juice :	<input type="text" value="1.630"/>	Brix % in Last Mill Juice :	<input type="text" value="2.460"/>
Pol % in Mixed Juice :	<input type="text" value="10.070"/>	Brix % in Mixed Juice :	<input type="text" value="13.360"/>
Pol % in Primary Juice :	<input type="text" value="14.210"/>	Brix % Primary Juice :	<input type="text" value="18.530"/>
Pol % in Syrup :	<input type="text" value="0.000"/>	Brix % in Syrup :	<input type="text" value="0.000"/>
Pol % Clear Syrup :	<input type="text" value="0.0000"/>	Brix % Clear Syrup :	<input type="text" value="0.0000"/>
Pol % Melt Liquor :	<input type="text" value="0.0000"/>	Brix % Melt Liquor :	<input type="text" value="0.0000"/>
Pol % Fine Liquor :	<input type="text" value="0.0000"/>	Brix % Fine Liquor :	<input type="text" value="0.0000"/>
Purity LMJ :	<input type="text" value="66.260"/>	Purity Clear Juice :	<input type="text" value="78.004"/>
Moisture % in Bagas :	<input type="text" value="51.620"/>		
Misc Fields		Cane	
Fiber % Cane :	<input type="text" value="14.000"/>	Cane Crushed(Kg) :	<input type="text" value="1125350.000"/>
Bagasse Consumed :	<input type="text" value="873.6800"/>	Cane Crushed(Monds) :	<input type="text" value="28133.75"/>
Bagasse Saved :	<input type="text" value="344.0050"/>	Cane Crushed(Tons) :	<input type="text" value="1125.35"/>
Bagasse Saved :	<input type="text" value="344.0050"/>	Sugar Bagged :	<input type="text" value="0.000"/>
Estimated Sugar :	<input type="text" value="0.0000"/>	Sugar Made (Tons) :	<input type="text" value="0.0000"/>
Pole in Open Cell :	<input type="text" value="85.6800"/>	Sugar In Process :	<input type="text" value="101.394"/>
		Rate Of Crushing(24Hrs) :	<input type="text" value="1125.350"/>
		Actual Hours Crushing :	<input type="text" value="23:45"/>
		Rate Of Crushing/Hr :	<input type="text" value="47.383"/>
		Flow Meters	
		Water Added :	<input type="text" value="469.223"/>
		Mixed Juice Tons :	<input type="text" value="1256.500"/>
		Molasses Sent Out :	<input type="text" value="0.000"/>
		Steam Produced :	<input type="text" value="710.000"/>
		Steam % Cane :	<input type="text" value="63.091"/>
		Stoppages	
		Technical Stoppage :	<input type="text" value="00:15"/>
		Chemical Stoppage :	<input type="text" value="00:00"/>
		Electrical Stoppage :	<input type="text" value="00:00"/>
		General Cleaning :	<input type="text" value="00:00"/>
		NO Cane :	<input type="text" value="00:00"/>
		Cutter Chokee :	<input type="text" value="00:00"/>
		MISC :	<input type="text" value="00:00"/>
		Total Stoppage :	<input type="text" value="00:15"/>
		Remarks :	
		MILL NO.4&5 PRESSURE FEEDER CHAIN BROKEN 500 Ton Baggas Consumed on Trail	

Process Lab Reports

1. DAILY CALCULATING SCHEME(DCS)
2. DAILY MANUFACTURING REPORT
3. RT4
4. DAILY CRUSHING, PRODUCTION AND MILL STOPAGGES REPORT
5. SUGAR CANE CHEMICAL ANALYSIS MORNING REPORT

Dashboards – Android Mobile App



Dashboards – Android Mobile App





thanks

THANK YOU

Say thank you.
Say it often, and say it with meaning.

Marne Levine