# Presenting



# Sugar Mills Loading Points (LP) Management



8

# **Depot Purchase Management**



# COSMOSOFT BUSINESS SOLUTIONS (PVT.) LTD. About us

Cosmosoft Business Solutions (Pvt.) Ltd. is a leading Sugar Industry Automation & ERP Design & Development Firm operating since 1997 in Pakistan. Our Sugar Industry clientage are including,

- Madina Sugar Mills Ltd.
- > Ashraf Sugar Mills Ltd.
- SGM Sugar Mills Ltd.
- > Sindh Abadgar's Sugar Mills Ltd.
- > Popular Sugar Mills Ltd.
- > Chashma Sugar Mills Ltd, (Unit I & II)
- > Premier sugar Mills & distillery Company Ltd.
- > Huda Sugar Mills Ltd.
- > Jauharabad Sugar Mills Ltd.
- Mehran Sugar Mills Ltd.

- > Pasrur Sugar Mills Ltd.
- > Chaudhry Sugar Mills Ltd.
- **▶ Brother Sugar Mills Ltd.**
- >United Ethanol Industries Ltd.
- Alman Seyyam Sugar Mills (Pvt.)Ltd.
- > Premier Ethanol Industries Ltd.
- Noon Sugar Mills Ltd.
- >TandlianWala Sugar Mills Ltd.
- Two Star Industries (Pvt.) Ltd.

# SARP SUGAR ERP MODULES



#### **SARP Sugarsoft Modules**

- EagleEye GPS based Cane Surveys Management System (android).
- ☐ Cane indenting integrated with E-Survey
- 1. GPS base L.P Monitoring, GPS Base Area Management.
- ☐ GPS based Depot Purchase Management System (android)
- ☐ Cane Procurement.
- ☐ Cane Accounting
- ☐ Loan and markup management system.
- ☐ Cane Costing
- ☐ Automated Laboratory Management and cane sampling.
- ☐ SMS Alerts.
- ☐ Token based Payments Management

#### **SARP ERP Modules**

- ☐ General Ledger, Cash & Bank, Taxation Management
- □ Account Payables
- □ Account Receivable
- Purchase Management
- Inventory Management
- HR, Biometric Attendance & Payroll Management
- □ Sugar Sales Management
- Fixed Assets Management.
- Cost center Wise Reporting.
- □ Budgeting Management
- Web-based MIS Dashboards

# VTS Flow Diagram – Without VTS

Rate: PKR 190 Distance: 100 KM









Rate: PKR 180 Distance: 30 KM

Area-02



2. Driver can get check post slip of higher rate area by visiting it without vehicle.

3. No data for cane supply planning, that how much cane is on the way.







Vehicle has the slip of Area-01, Although he picked cane from Area-02





Get Succeeded steel your

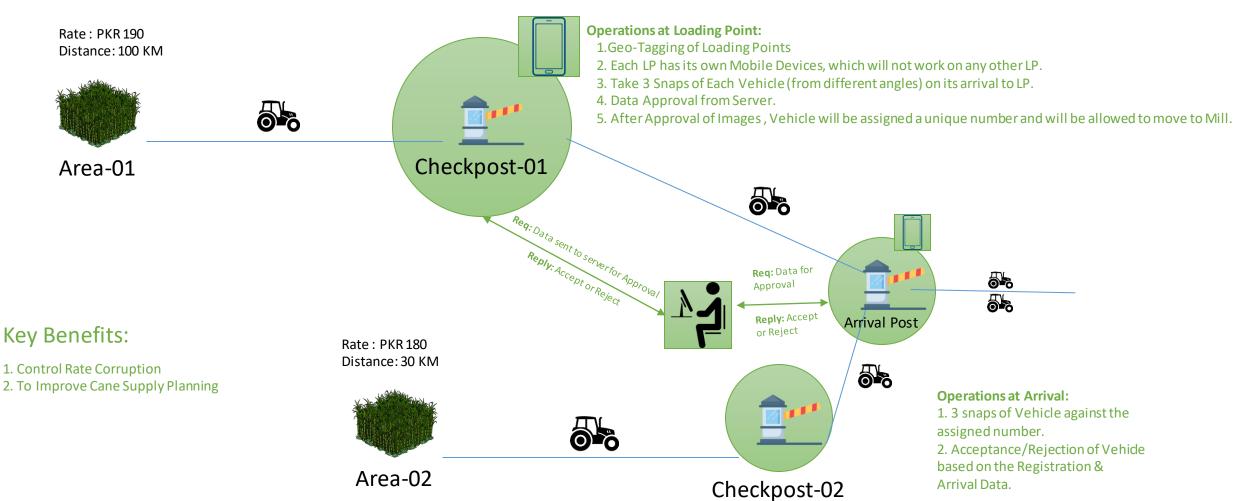




**Problems:** 



# VTS Flow Diagram – With VTS







**Vehicle Tracking System (VTS)** is an Android Smartphone Application for vehicles registration approval at Sugar mills loading Points (LPs) and vehicles acceptance/ rejection at their Sugar Mill Arrival.

**Vehicle Tracking System (VTS)** is three interface System designed and implemented in Sugar Manufacturing industry to secure sugarcane procurement process. VTS works with **Google Inc**. Global Positioning System (GPS). VTS smartphone application with compatible with all Android latest firmware.

A web based dashboard is available to the management for checking daily vehicles arrival, accepted & rejected, on the way vehicles summary on their smartphone, tablet PCs and laptops. Following are the major system features;





# **System Key Features**

- Users Registration & Authentications
- Users' registration through authorized IMEI smartphones.
- System authentications based on users' roles & designations.
- System username and password security.
- GPS Area Restrictions.
- Dynamic search based on Vehicle No wise, registration number wise. LP number wise, date and username wise etc.
- System Compatibility with latest Android OS firmware smartphones.
- Vehicle registration and arrival photos image resolution adjustment including low, normal and high resolution photos considering the network bandwidth.
- L.P vehicles registration restriction for only defined maps radius.





#### **Sugar Mills Loading Points Management**

- Sugar Mill GPS Coordinates registration.
- Loading Points (LP) Registration.
- Loading Points defined coordinates.

#### **Vehicles Registration & Approvals**

- Vehicles Registration at loading points with vehicle captured images approved through System Admin user(s).
- Vehicle registration slip printing at L.P.
- Cross Check post scanning
- Data offline saving and synchronization at data connection with server.
- A live System for Loading Points Vehicles registration and approvals real-time data synchronization with Sugar Mills approval authority.
- A list of pending registration approval vehicles list available I real-time to Sugar Mills approval
  authority.





## **Vehicles Arrival & Verifications**

- Vehicle Arrival through Barcode scanning via VTS app.
- Pending arrival vehicles details.
- Vehicles snapshots capturing at arrival and matching with vehicle registration snapshots.
- Approval /rejection based on images matching by Approval Authority.
- Vehicles rejection and Approval linked with SARP ERP Sugar Procurement modules.

# **Management Web Dashboards**

- On the way vehicles detail
- Pending registration vehicles summary
- Pending verification vehicles summary
- Total verified vehicles
- Total rejected vehicles summary
- Daily total arrival
- System Alerts & notifications of registration, approval and verification activity on Dashboard





# Reporting

- Pending Registration Vehicles detail
- List of Rejected Vehicles Registration
- On the Way vehicles detail
- Pending verification vehicles detail
- Accepted registrations detail
- Rejected registrations detail
- Early Arrival details
- Loading Points wise daily vehicles registration detail
- Loading Points Vehicles Summary

# **Company Managment**



Dashboard

🔑 Settings 🔻

■ Transactions ▼

**■** MIS

### Configuration

Save

Company Name: ABC Sugar Mills Ltd Company Cords: 31.963261, 73.094742 Mobail Password: 12345 Geo-Fenced Area ☑ RestrictArea Radius: 150 ☑ Registration Approval

# **Users Management**





ABC Sugar Mills Ltd

Welcome: admin

Season: 2019-2020

♠ Logout

Dashboard

Settings -

■ Transactions ▼

■ MIS

#### **Designations**

Designation Code: 31

Designation Name: Supervisor

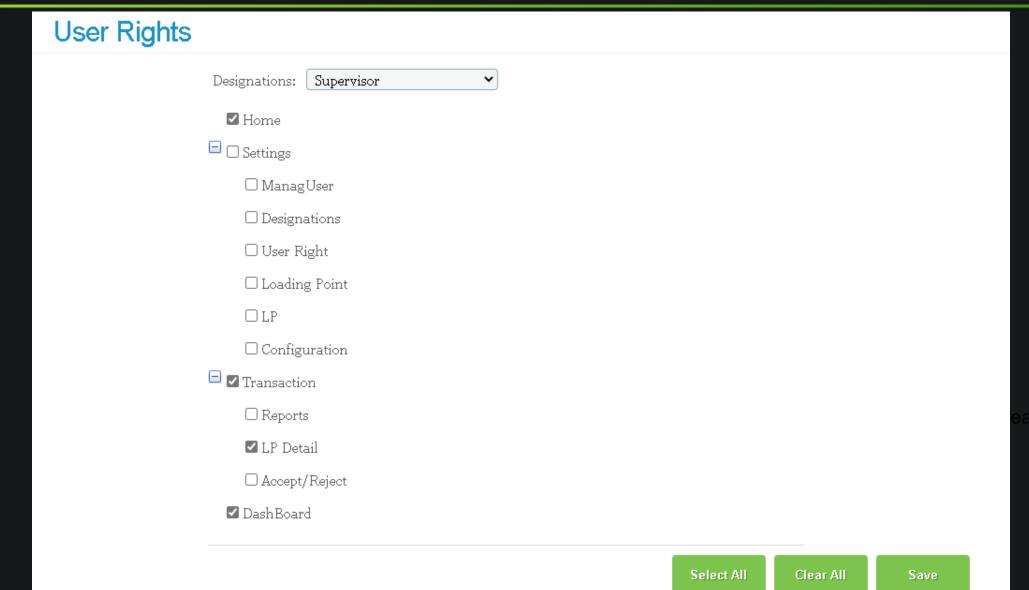
Save

New

	Designation Code	Designation Name		
<b>₽</b>   💼	31	Supervisor		
<b>₽</b>   💼	15	User		
	14	Admin		







# **Users Management**



Login Name:	Thadda Bhatti	an			Block 🗆
Full Name:	Thadda Bhatti	an			
Designation :	User		~		
Loading Point:	Thadda Bhatt	ian	~		
Password:	•••••				
Confirm Password:	•••••				
IEMI number:	352121119546	602			
Contact number:	0307				
User Type:	⊚Registration	OArrival	OOth	er	
	Save	New			

	Login	Full Name	Designation	IEMI Number	Contact Number	Password	Block
<b>∌</b>   <b>□</b>	Thadda Bhattian	Thadda Bhattian	User	352121119546602	0307	*****	
<b>∌</b>   <b>♣</b>	Mangni II	Mangni II	User	353418118890943	77777	*****	
<b>∌</b>	midh ranjha ii	Midh Ranjha II	User	351577115887608	5555	*****	

# **Loading Points Setup**



#### **Loading Points**

Code: 21

Name: Bhalwal II

GPS Coordinates: 32.101083,72.731205

Save New

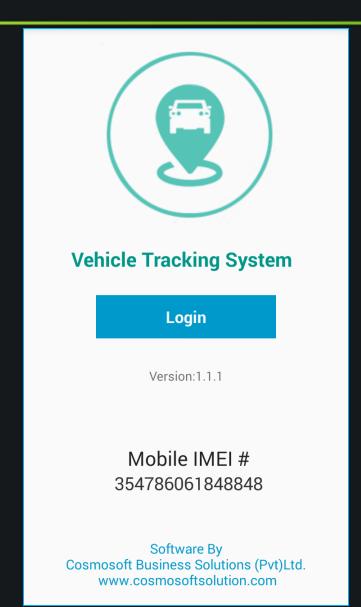


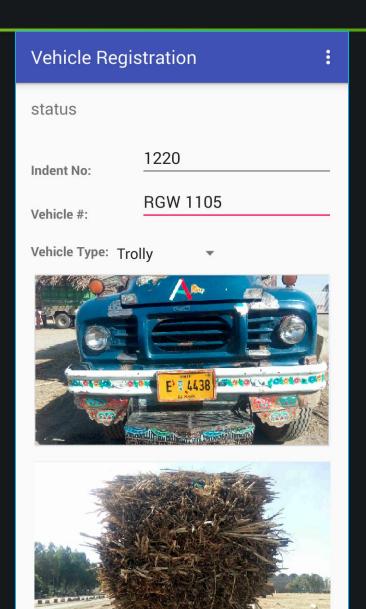
Vehicle Type	Est arrival Time	
Trolly	0:0	hh:mm
Trailer	0:0	hh:mm
Truck	0:0	hh:mm
Mini Truck	0:0	hh:mm
Long Trailer	0:0	hh:mm
Donkey Cart	0:0	hh:mm

	Code	Loading Point	Location Address
📴 l 🏗	26	Thadda Bhattian	31.947799,73.189808
📝 l 💼	25	Ghous M. Wala II	32.029706, 73.072885
📝 l 💼	24	Mangni II	32.036021,72.958046
📝 l 📆	23	Midh Ranjha II	32.069338,73.146191
📝 l 💼	22	Riaz Abad II	31.884916,73.009636
📝 l 💼	21	Bhalwal II	32.101083,72.731205
📝 l 📆	20	ICHHARWAL	31.885346,73.011111

# Mobile Screen inputs-Mobil IMEI based users registration & Vehicle Registration Input

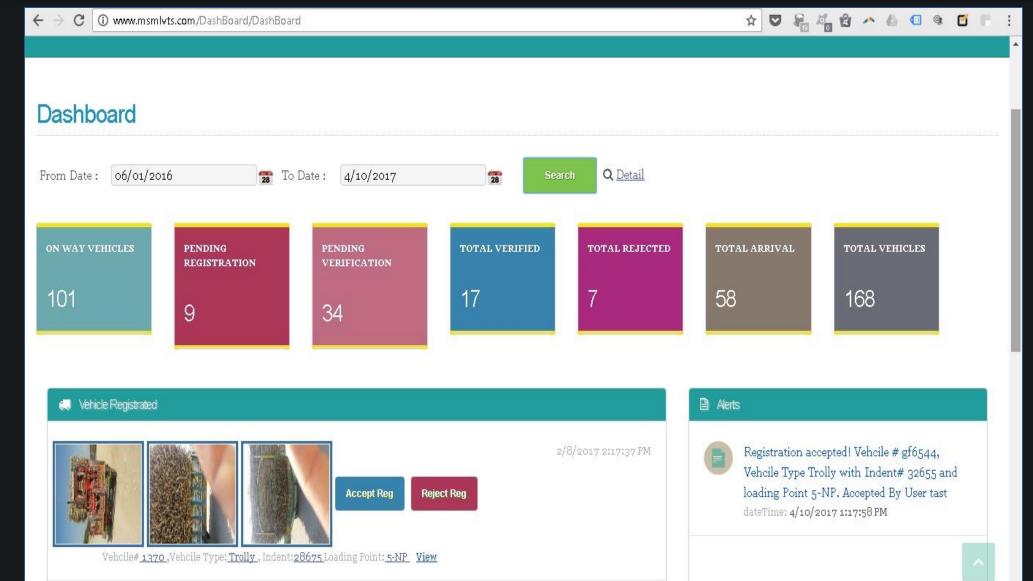






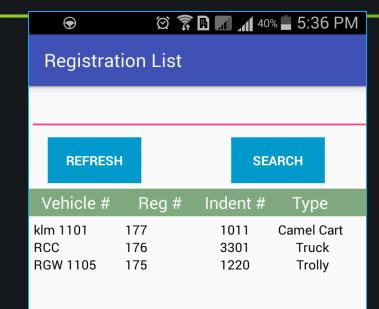
#### **VTS Dashboards**

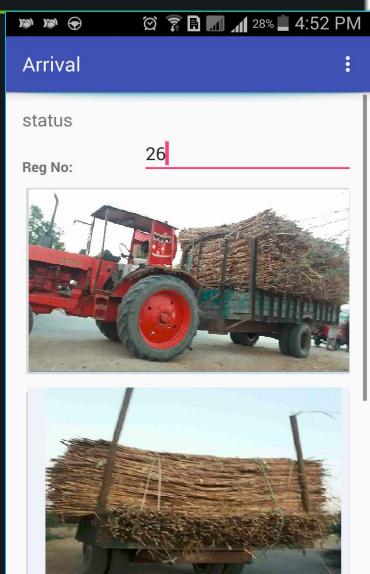




# Mobile Screen Inputs- Pending Registration List & Vehicle Arrival Entry









### Pending & Processed vehicles Summary & Details

 Status
 From Date
 To Date

 Pending Registration
 ▼
 08/01/2016
 4/11/2017
 Search

Reg No	Indent No	Vehicle Type	Vehicle No	Location	Reg Date	ArrivalDate		
141	40663	Trolly	2013	5-NP	2/8/2017 2:10:44 PM			
140	786	Trolly	5555	5-NP	2/8/2017 11:25:35 AM			
139	6969	Truck	555	5-NP	2/8/2017 11:20:08 AM			
138	7856	Trolly	3436	5-NP	2/8/2017 11:17:33 AM		L	
137	3632	Trolly	2345	5-NP	2/7/2017 4:57:23 PM		L	
136	41101	Trolly	0174	5-NP	2/7/2017 2:10:42 PM			$\Theta$
135	880	Trolly	780	5-NP	2/7/2017 2:02:13 PM			0
134	985632	Trolly	fjkiyd64588	5-NP	2/7/2017 12:28:07 PM		P	0

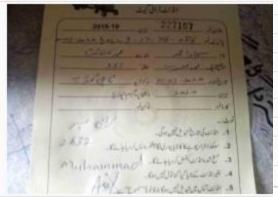
### Pending & Processed vehicles Summary & Details



#### Registration Detail







r development purposes only  Al Hussani Power Wash Station	Si
Shalimar Cng	ı
Map data @2020   Terms of Use   Report a map error	

**Disapprove** 

Report

LP Code	6
LP Name	Tahli Goraya
IMEI	351579114204587
GPS Coordinates	31.937323333333,73.2892183333334
Registration No.	10408
Vehicle No.	2632
Vehicle Type	Trolly
Date	11-03-2020
Time	01:39 PM
Estimated Arrival Time	0:0
Submitted By	Tahli Goraya
Disapprove By	m.naeem

# Vehicles status change Portal-Authentication based



Accept Reject Vehic	cles			
			<i>○Registration</i>	
Registration No:		Indent No:		
Registration Date From:	4/11/2017	Registration Date To:	4/11/2017	28
Vehicle Type:	ALL ▼		Search	

View Detail	RegNo	Indent No	Vehicle Type	Vehicle No	Location	Reg Date	Arrival Date		
	8358	63285	Truck	6872	pull magasan	4/7/2017 9:26:53 PM	4/8/2017 4:17:00 AM	Accept   OReject	Save
	8357	63280	Truck	9789	pull magasan	4/7/2017 7:09:14 PM	4/8/2017 12:27:00 AM	Accept   OReject	Save
	8356	63271	Truck	6898	pull magasan	4/7/2017 3:30:01 PM	4/7/2017 9:35:00 PM	Accept   OReject	Save
	8355	63270	Truck	3435	pull magasan	4/7/2017 2:44:05 PM	4/7/2017 7:33:00 PM	Accept   OReject	Save
	8354	63269	Truck	8964	pull magasan	4/7/2017 2:34:54 PM	4/7/2017 7:31:00 PM	Accept   OReject	Save
	8353	63268	Truck	3579	pull magasan	4/7/2017 12:07:54 PM	4/7/2017 5:01:00 PM		Save
	8352	63267	Truck	7783	pull magasan	4/7/2017 10:57:05 AM	4/7/2017 3:24:00 PM		Save
	8350	63265	Truck	4438	pull magasan	4/7/2017 10:15:47 AM	4/7/2017 3:26:00 PM	Accept   OReject	Save

## **Verified Vehicles detail**



Registration Detail











LP Code	11	11		
LP Name	pull magasan	pull magasan		
IMEI	862051036652576	862051036656841		
GPS Coordinates	30.51566833333333,70.87567333333332	31.37265,70.699885		
Registration No.	8354			
Vehicle No.	8964			
Vehicle Type	Truck			
Date	07-04-2017	07-04-2017		
Time	02:34 PM	07:31 PM		
Actual Arrival time	4:8	56		
Estimated Arrival Time	6:	0		
Advance time	1:0	04		
Submitted By	pull magasan	arrival2		
Accepted By	ZAI	N		
	Accepted			
Estimated Arrival Time  Advance time  Submitted By  Accepted By	6: 1:0 pull magasan ZAI	0 04 arri		

Report



### **Rejected Vehicles detail**

Season: 2016-2017

#### **Rejected Registration**

LP Code	LcPc Name	Veh No	Reg No	Reg Date	Reg Time	Reg By
Reg. D	ate: 11/17/2016					
2	ctwo	bsgs	2	11/17/2016	5:23:41PM	bagh
16	но	qwe	3	11/17/2016	7:41:04PM	но
Reg. D	ate: 11/21/2016					
16	но	test	12	11/21/2016	10:59:37AM	testho
16	но	testttt	13	11/21/2016	11:00:45AM	но
16	но	tr15	14	11/21/2016	11:08:56AM	но
16	но	rtyyu	15	11/21/2016	11:14:44AM	но
16	но	tyr455	20	11/24/2016	11:34:23AM	но
12	Taunsa	57806	22	11/26/2016	9:35:16AM	taunsa
Reg. D	ate: 12/1/2016					
12	Taunsa	3678	23	12/1/2016	4:55:12PM	taunsa
3	Daman	we	27	12/1/2016	6:18:07PM	daman2



### **Verified Vehicles detail**

Season: 2016-2017

#### Verified Vehicles

LP Code	LcPc Name	Veh No	Reg No	Reg Date/Time	Arrival Date/Time	Total Time	Reg By	Arrival By	Verify By		
Reg. Da	Reg. Date: 11/17/2016										
2	ctwo	hggf	1	11/17/2016 4:29:36PM	11/17/2016 4:31:50PM	06:54:43	bagh	bagh	jam		
16	но	dhj34	6	11/17/2016 8:49:25PM	11/18/2016 9:39:33AM	23:58:18	но	но	jam		
Reg. Da	Reg. Date: 12/1/2016										
12	Taunsa	6111	24	12/1/2016 5:05:03PM	12/1/2016 7:58:54PM	23:42:18	taunsa	arrival2	mushtaq		
12	Taunsa	662	26	12/1/2016 6:01:10PM	12/1/2016 9:19:45PM	23:55:10	taunsa	arrival2	mushtaq		
12	Taunsa	3869	25	12/1/2016 5:06:17PM	12/1/2016 9:24:25PM	23:59:25	taunsa	arrival2	mushtaq		
12	Taunsa	562	29	12/1/2016 6:30:52PM	12/1/2016 9:29:05PM	23:59:14	taunsa	arrival2	mushtaq		
12	Taunsa	061	30	12/1/2016 6:38:05PM	12/1/2016 9:31:09PM	23:59:30	taunsa	arrival2	mushtaq		
12	Taunsa	1876	28	12/1/2016 6:28:59PM	12/1/2016 10:22:30PM	23:59:29	taunsa	arrival2	mushtaq		
12	Taunsa	511	34	12/1/2016 8:23:36PM	12/1/2016 11:14:46PM	23:58:24	taunsa	arrival2	mushtaq		
12	Taunsa	957	36	12/1/2016 8:31:43PM	12/1/2016 11:19:10PM	23:57:25	taunsa	arrival2	mushtaq		
12	Taunsa	335	35	12/1/2016 8:24:59PM	12/1/2016 11:17:44PM	23:55:42	taunsa	arrival2	mushtaq		
12	Taunsa	2298	37	12/1/2016 9:47:54PM	12/2/2016 1:31:17AM	23:59:08	taunsa	arrival2	mustansar		
12	Taunsa	1083	33	12/1/2016 7:41:31PM	12/2/2016 1:47:25AM	23:58:40	taunsa	arrival2	mustansar		
12	Taunsa	7627	32	12/1/2016 7:39:40PM	12/2/2016 1:45:59AM	23:56:24	taunsa	arrival2	mustansar		
12	Taunsa	2295	31	12/1/2016 7:38:04PM	12/2/2016 3:57:55AM	23:56:41	taunsa	arrival2	mustansar		
12	Taunsa	1701	39	12/1/2016 11:50:47PM	12/2/2016 4:45:35AM	23:57:44	taunsa	arrival2	mustansar		
12	Taunsa	1876	41	12/2/2016 2:58:39PM	12/2/2016 7:01:24PM	23:58:44	taunsa	arrival2	mushtaq		

### **Pending Verification Vehicles detail**



Season: 2016-2017

#### **Pending Verification**

LP Code	LcPc Name	Veh No	Reg No	Reg Date/Time	Arrival Date/Time	Total Time	Reg By	Arrival By
Reg. Date: 11/17/2016								
16	но	vshhshs	5	11/17/2016 7:56:15PM	11/18/2016 11:23:30AM		но	НО
16	но	bre1111	4	11/17/2016 7:53:10PM	11/18/2016 11:28:54AM		но	но
Reg. Da	ate: 11/25/2016							
3	Daman	ууу	21	11/25/2016 12:01:43PM	11/26/2016 8:31:43AM		daman2	arrival2
							Total Vehicles:	3

### On the Way Vehicles detail



Season: 2016-2017 On The Way Vehicles

Troin 3	From 9/1/2016 to 4/11/2017							
LP Code	LcPc Name	Veh No	Reg No	Reg Date	Reg Time	Reg By		
Reg. Da	Reg. Date: 11/18/2016							
16	но	dfr	7	11/18/2016	9:32:02AM	но		
Reg. Da	te: 11/21/2016							
16	но	test	8	11/21/2016	10:32:58AM	но		
16	но	test	9	11/21/2016	10:36:18AM	но		
16	но	test	10	11/21/2016	10:53:41AM	testho		
16	но	arhg	11	11/21/2016	10:54:43AM	но		
16	но	treesd	16	11/21/2016	11:38:46AM	но		
16	но	rttuihg	17	11/21/2016	11:40:08AM	но		
16	но	ytreeh	18	11/21/2016	11:41:43AM	testho		
16	но	122	19	11/21/2016	11:45:59AM	testho		
Reg. Da	ite: 12/1/2016							
12	Taunsa	8080	38	12/1/2016	10:03:20PM	taunsa		
12	Taunsa	335	60	12/2/2016	7:31:22PM	taunsa		
12	Taunsa	6020	64	12/2/2016	8:19:20PM	taunsa		
6	shahani pump	652	74	12/2/2016	9:57:59PM	shahani pump2		
12	Taunsa	480	82	12/3/2016	12:39:34AM	taunsa		
12	Taunsa	957	89	12/3/2016	3:45:56PM	taunsa		
12	Taunsa	73108	90	12/3/2016	3:48:14PM	taunsa		



An ERP Partner That Simplifies Your Business Success!



# Sugar Mills' Depot Management System



Depot Management system is an online software application designed to record Sugar Mills' Depot Purchase in a real-time. The application features each Growers vehicle based entry and payment through a smartphone application.

It provides a clear view of each Contractor's depot purchased and sugarcane volumne to be received by Sugar mill in upcoming days for deciding the Crushing capacity of the Plant.

#### **Interface:**

Smartphone App: for Depot Procurement, bills payment printing Web Portal: To define and manage master setup of Depots, depot procurement records acceptance/rejection and to preview Depot Procurement reporting.

# Sugar Mills' Depot Management System



# Key Benefits:

- 1. Reduce Rate Corruption
  - Contractors buy cane at lower rate and wait till the rate revised.
- 1. Printed Invoice/SMS to make sure that the actual rate was paid to grower.
- 2. Grower Data Bank
- 3. Help in planning
  - By Knowing exactly which depot has how much supply in stock.
- 1. Reduce Rate conflict between Contractor and Mill.
  - In Manual procedure, it might be a risk that the updated cane rates didn't received to contractor.

# Depot Management System



# **System Key Features**

- Depot Setup (Name, Location, GPS coordinates, Geo-fenced area, Contractor Name, Depot Rate setup, Depot Targets
- Contractors android access setup
- Depot Purchase Rate definition
- Android and Web users Roles based rights & Authentications.
- Depots Geo-Fencing on Google Maps.
- Vehicles entry including Vehicle & Deriver photo & Information, Gross/Tare weight photos of each vehicle and payment rates detail.
- Direct printing of Payment bill with recording of Depot Purchase entry.
- Compatible with Android Latest OS Firmwares.
- Web Portal for daily Depot wise procurement details.

# Depot Management System



# **Key Benefits**

- Depot users are bound to record Vehicles entry and pay bill directly from the App within Geo-fenced area of the depot.
- Transparency in Contractor Depot purchase rates.
- Each vehicle Photo, Weighment detail photo and direct printing of Payment bill from Android device.
- A better understanding of expected depot wise sugarcane arrival vs depot target.

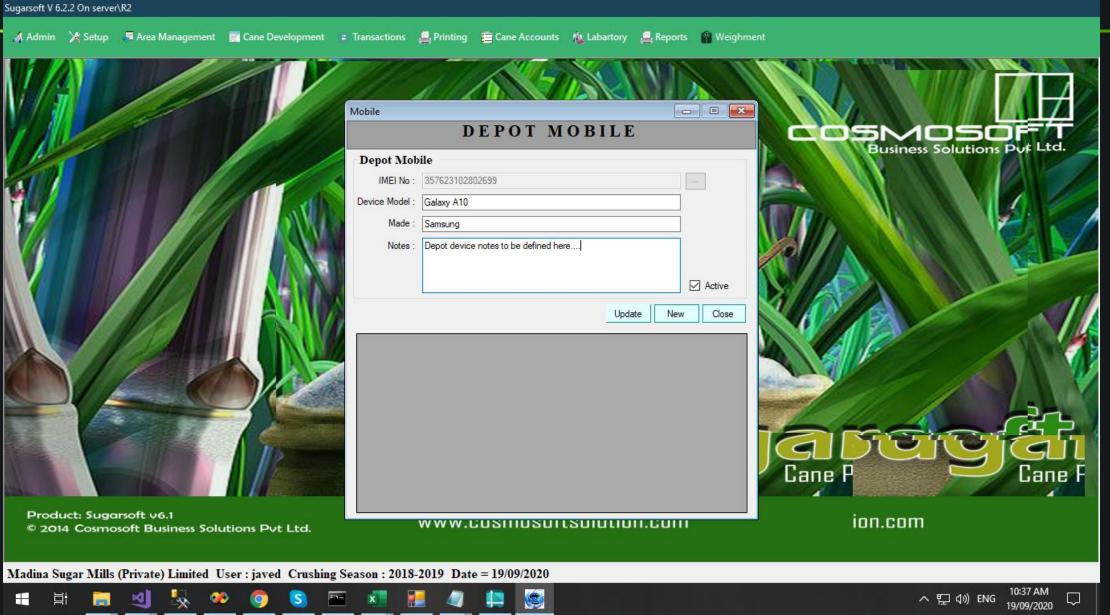
# DEPOT MANAGEMENT

System Workflow & Screenshots



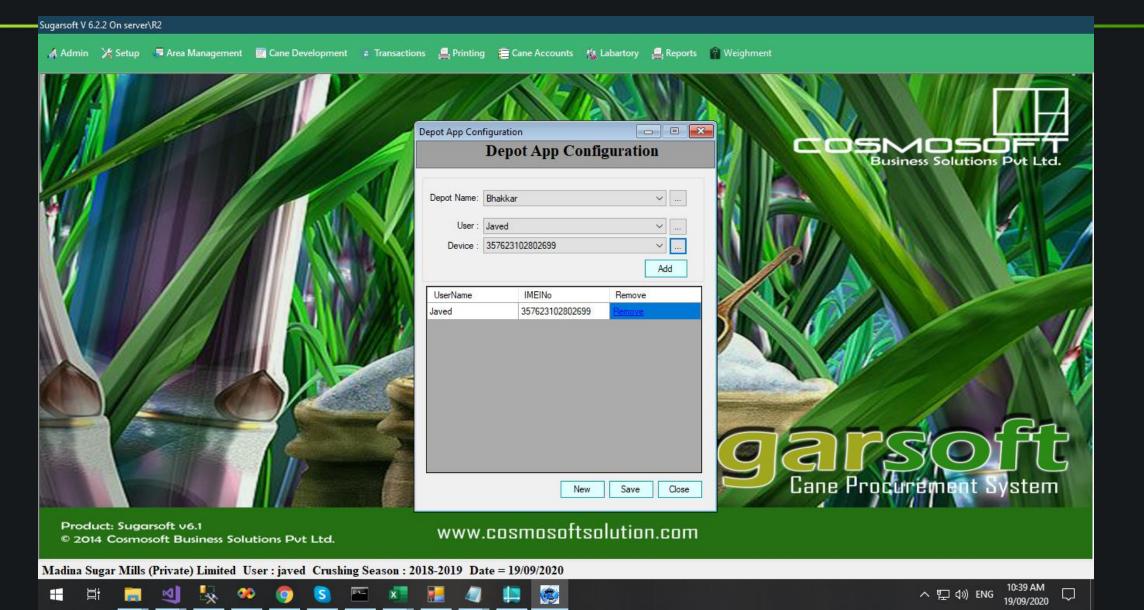
### Depot Android device Registration





### Depot User & Device Association





# Depot Android App User Interface (UI)



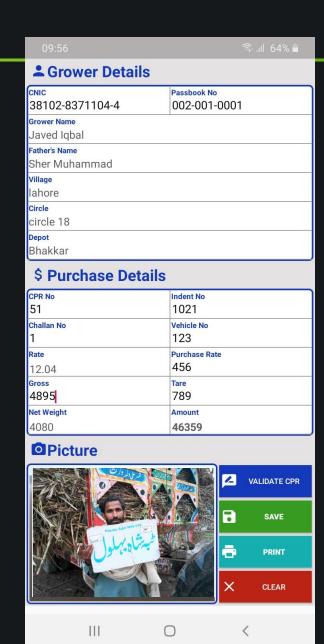
**Setting** IEMI 00000 Depot Application User Interface (UI) Device Configuration Server URL **Javed** RESET http://192.168.0.121/de... \$ CPR Pending CPR Reports Sync Data Settings About Us  $\ni$ Log Out Exit |||

### Depot Android App User Interface (UI)

# Sogar Date Measurement Valuation and the Valuation and the Valuation and Valuation and

#### **Depot Purchase Booking**

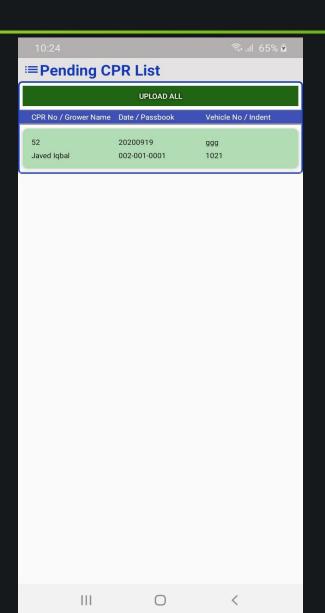
- Vehicle Weighment Detail
- Vehicle Photos
- Contractor Actual
  Purchase Rate
- Offline Data saving
- Depot Payment bill printing directly through Mobile App

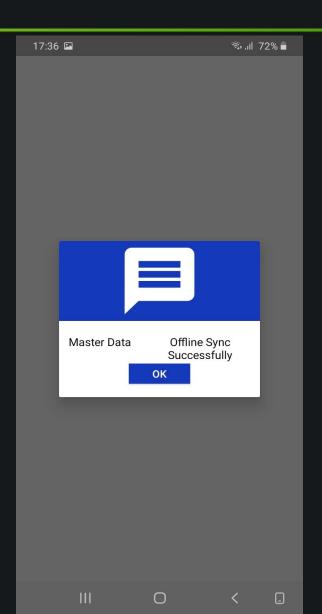


# Depot Android App User Interface (UI)



Featuring Offline Data Save & Synchronization

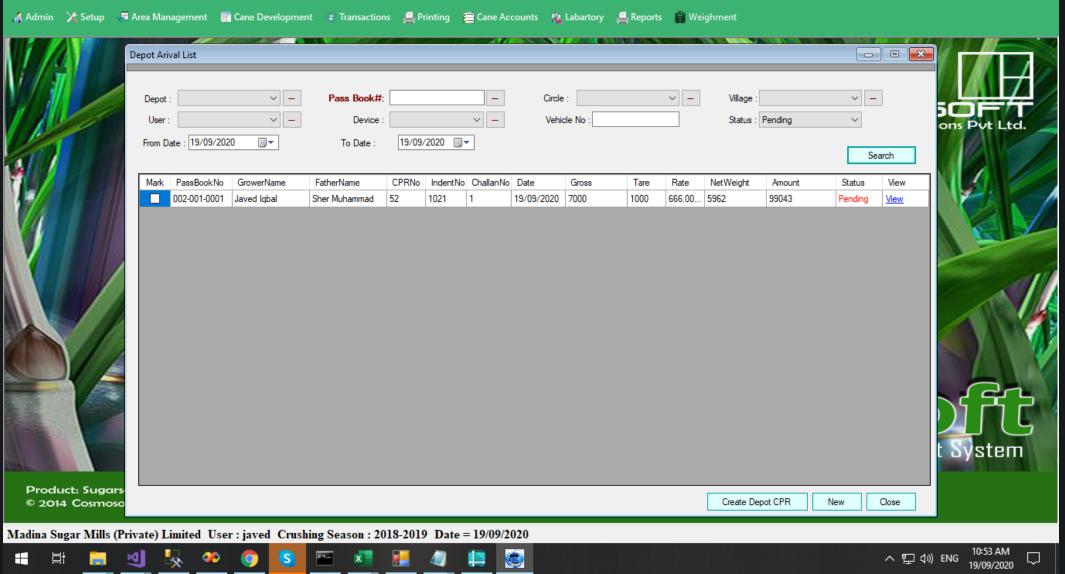




# Vehicles Approval & CPR Generation directly in Sugar Procurement Module

Sugarsoft V 6.2.2 On server\R2





### Depot Purchase Preview



Sugarsoft V 6.2.2 On server\R2 🎜 Area Management 🔣 Cane Development 🕏 Transactions 🚨 Printing 🞏 Cane Accounts 🛍 Labartory 🚨 Reports 🧌 Weighment - 0 Depot ons Pvt Ltd **DEPOT-INFO** From Date : 19/0 Search Depot Image CPR NO: 52 IMEI NO: 357623102802699 Mark PassBoo lahore 002-001 Bhakkar Source circle 18 Circle User: Javed 002-001-0001 Pass Book#: Javed lobal Grower Name Sher Muhammad Father Name 38102-8371104-4 Mobile No: 03044900699 CNIC No Lahore Address Weight Section Amount Section 666.0000 1000 Tare 99,043.00 Close System **Product: Sugars** Create Depot CPR New Close © 2014 Cosmoso

# Android Device with in-built Thermal Printer









- Total Depot wise Date wise Purchase
- Depot wise Cane in Transit
- Depots List
- Depot Purchase Comparison
- Depot wise Received & pending Cane Purchase detail
- Depot wise date wise payment summary report



# Contact Us

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