

Table of Contents

1	About SoftCrusher.....	3
1.1	Key-features of SoftCrusher.....	3
2	Prerequisites and Compatibility.....	4
3	Start-up Procedure.....	4
3.1	Basic Action.....	4
3.2	Setting up files.....	5
3.2.1	Default Configuration Files.....	5
3.2.2	Starting the Application.....	5
4	Users.....	6
4.1	User privileges.....	6
4.2	Normal user.....	7
4.3	Adding/Modify users.....	7
4.4	Change password.....	7
4.5	Login to the application.....	7
4.6	Initial Configuration.....	8
4.7	Logout.....	9
4.8	Exit.....	9
5	DB Configuration.....	10
5.1	Open Database.....	10
5.2	Take Back-up DB.....	10
5.3	Restore DB data.....	10
5.4	Delete DB data.....	10
5.5	Alternate Method.....	10
5.6	Customer.....	12
5.7	Supplier.....	12
5.8	Employee.....	12
5.9	Vehicle.....	13
5.10	Material.....	13
6	Full screen view.....	14
6.1	Toggle full screen view.....	14
7	Operations.....	14
7.1	Database related Ops.....	14
7.1.1	Upload from csv file.....	14
7.1.2	Take Full-Backup.....	15
7.1.3	Restore Full-Backup.....	16
7.1.4	Take Incremental-Backup.....	17
7.1.5	Restore Incremental-Backup.....	19
7.1.6	Delete data from Database.....	19
7.2	Custom Rates.....	21
7.3	Quarry Transport Site Details.....	22
7.4	Site Details.....	23
8	Transaction Entry.....	24
8.1	Add Transactions.....	24
8.1.1	Empty Vehicle Adding.....	24
8.2	Customized Rates Advantage.....	27
9	Cash Transaction Entry.....	28
9.1	Cash/Bank Transaction modification.....	29
10	Inventory Management.....	30
10.1	New Purchase.....	31
10.2	Inventory alterations.....	32
10.2.1	Inventory alterations In entries.....	32
10.2.1.1	Issue In entries.....	32
10.2.1.2	You can issue an entry that has been purchased. Revert In entries.....	32
10.2.1.3	Modify In entries.....	32
10.2.2	Inventory alterations Out entries.....	32
11	Report Viewing.....	33
11.1	Filtering the reports.....	34
11.2	Contextual Menu.....	34

SHASRaTech.com - Sri Hari Automation Solutions
SoftCrusher64 User Reference Manual

11.2.1	Modify this entry.....	35
11.2.2	Other activities possible.....	35
11.2.3	'Modify item for "ALL" Transactions'.....	35
11.3	Chart Generation.....	36
11.3.1	Generate Chart with different parameters.....	36
11.4	Accounts Table.....	37
11.4.1	Accounts Table entry for Transaction.....	37
11.4.2	Accounts Table entry for Money-Transaction.....	38
11.4.3	Accounts Table entry for Inventory.....	38
11.5	Printing.....	38
11.5.1	CSV format.....	38
11.5.2	Dispatch Details and Tax-Invoice.....	38
11.5.3	Balance-sheet printing.....	38
11.5.4	Generate Reports.....	39
12	Configuration and other files.....	39
13	Port Configuration.....	39
13.1	Weigh Bridge serial port Sample configuration.....	39
13.2	Change Weigh-bridge Serial Port configuration.....	40
14	Printer.....	40
14.2	Generate Token.....	41
14.2.1	Procedure to generate token.....	41
15	Signaling Display Box.....	42
15.1	Signal to Truck Driver.....	43
15.1.1	Ready State.....	43
15.1.2	Wait State.....	43
15.1.3	Go State.....	43
15.2	Seven-Segment Display.....	44
15.3	Operator-less Operations with Input Buttons.....	44
15.4	Software replica of Display Box.....	44
15.5	Additional switches for A/c Output.....	44
15.5.1	Configuration to turn on/off these A/c sockets time based.....	44
16	Cameras.....	44
16.1	Camera Dashboard for Remote-monitoring.....	44
17	system Configuration.....	45
17.1	Print Directory.....	45
17.2	Database configurations.....	45
17.3	Vehicle Configuration.....	46
17.4	Serial Port Configuration.....	47
17.5	System level Configuration.....	47
18	Short-cuts and user friendly information.....	47
19	Sample Printouts.....	49
19.1	DC_Slip format.....	49
19.2	Tax-Invoice Format.....	50
20	Remote- sync with Android Mobile.....	50
21	Remote monitoring with Internet web pages.....	51
22	SMS alerts and configuration.....	51
23	Additional helpful details.....	51
23.1	Useful Linux and Mysql Commands.....	51
23.1.1	How to change Mysql root Password?.....	51
23.1.2	How to upgrade the software.....	51
23.1.3	Teamviewer and Remote-monitoring.....	51
24	SoftCrusher version and customer details.....	51
25	Customer-Support.....	52

1 About SoftCrusher64:

SoftCrusher is Application that helps,

- the **Owners/Managers/site-operators** to manage the Vehicle entries, the material they carry, the site destinations, Customers, Transporters and the payments that need to be made due to various types of transactions.
- Various **cash/Bank/ payments, Expenses** maintained and **Cost of production/MT** readily available in Dashboard.
- **Reports** for all **Customers/Transporters/Vendors/Partners/Employees** generated with a click of a button.
- **Remote monitoring** and **Remote Syncing with Dynamic Syncing** from Site to Head-office various options.
- **Customizations of rates per customer/Site.**
- **Automatic weigh-bridge reading** captured for each transaction.
- **Incoming Boulders entries are made so simple** with click of button entries can be made.
- **SMS alerts** at **configured frequency** to know the **Production/Sales** status.
- **Inventory Management.**
- **Automatic Backup of data** and **Deletion of old data.**

1.1 Key-features of SoftCrusher

For New Feature about Automated MDP/MDR Processing Contact +91 731270001.

- a) SoftCrusher is secure application and the data cannot be opened, viewed copied without proper authentication, Authorization.
- b) It has multiple levels of user authorization and is highly secure.
- c) It does auto save data, useful in comparing with human errors or fraud.
- d) Prints, transaction receipts at every transaction with all the details. Copies of receipts can be printed for self reference

using a thermal printer.

- e) Tokens can be generated that can used in ordering the truck loading and with material type and time.
- f) Reports can be generated for any given time period, with different filters like customer/Supplier, Material/Vehicle.
- g) Cash/Bank transactions can be recorded and balance sheet generated on the selections.
- h) Summary reports can be generated for given periods.
- i) Charts can be generated based on the data selection and compared with earlier day/week/month/quarter/year.
- j) Operators with zero knowledge of computers can use this software make entry into DB.
- k) Operator-less operations are also possible.
- l) **Importantly**, remote-monitoring of the data and the activities through remote-monitoring cameras give added advantage.
- m) Also, it comes with Android app, that syncs to server. With this that cash payments and other transactions could be safely recorded without missing.

2 Prerequisites and Compatibility

- ☐ OS requirement : Ubuntu (15.04)
- ☐ Works on 64 bit CPU
- ☐ USB ports : Minimum 3. (For software protection Dongle, weigh-bridge and for Thermal printer.
- ☐ Additional usb ports are used for Micro-Controller display box and the cameras connected.
- ☐ My SQL (Server and Client)
- ☐ Root permission for configurations

3 Start-up Procedure

3.1 Basic Action

For basic usage you can skip to sections **Operations**, **Transaction Entry**, **Cash Entry**, **Inventory**, **Reporting**

Note: Few of the functionalities are permitted under root/admin

authentication only.

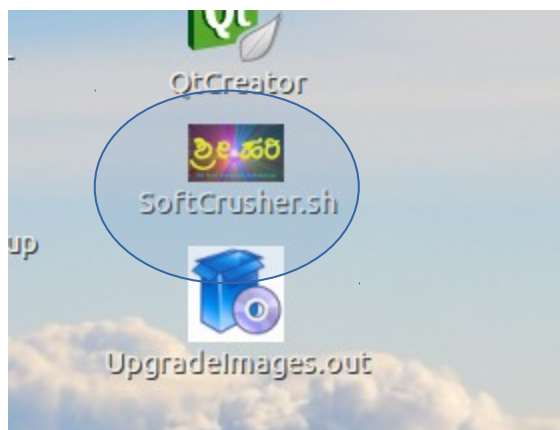
3.2 Setting up files.

3.2.1 Default Configuration Files.

Few files are copied to /home/autologin/desktop, /home/autologin/SoftCrusher /etc/udev/rules with root as the owner. **Please do not edit/delete these files.**

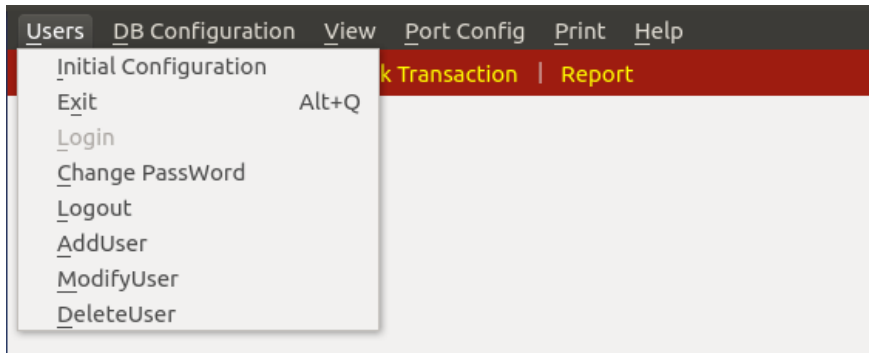
3.2.2 Starting the Application.

Click on SoftCrusher icon in Desktop to start the application.



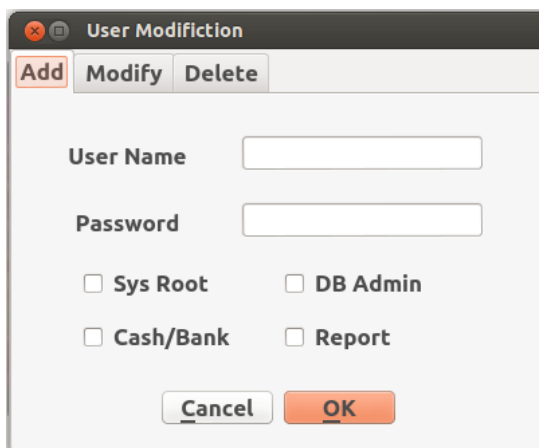
4 Users

User main menu helps you in setting up initial activities like initial configuration, add user, modify user, delete user, change password, logout and to exit from the application.



4.1 User privileges

There are different levels of User Privileges.



1. Sys Root [operations related to Linux OS].
2. DB Admin [who can modify the already entered data in the Mysql-Database.]
3. Cash/Bank [users who have access to add/update Cash Transactions.]
4. Report [Users who have access to Reports]

4.2 Normal user

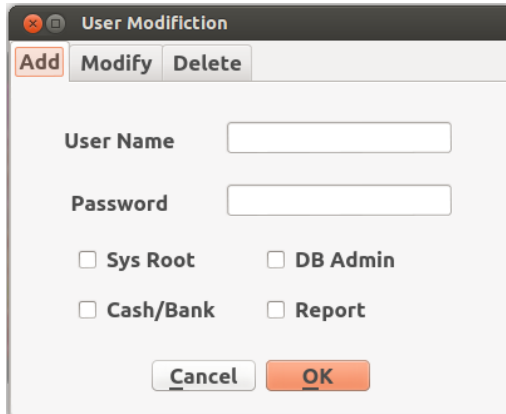
Normal user will have only access to generate Tokens and add Transaction.

Depending on the privileges given to a user, users can perform additional tasks.

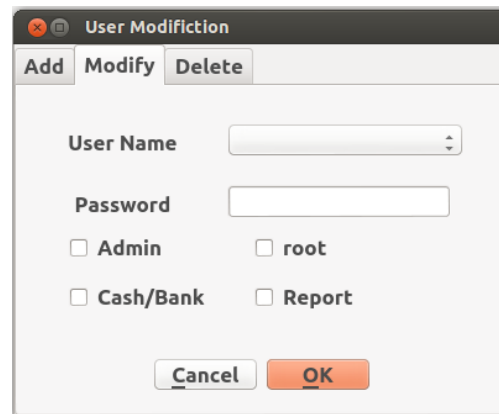
4.3 Adding/Modify users

Navigation Path: Users -> AddUser

Navigation Path: Users > ModifyUser

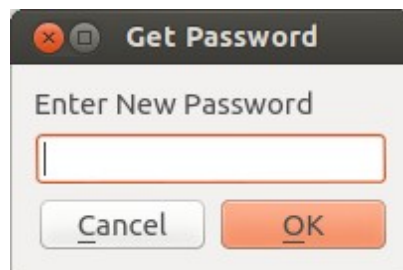


The 'User Modification' dialog box has three tabs: 'Add', 'Modify', and 'Delete'. The 'Add' tab is selected. It contains a 'User Name' text field, a 'Password' text field, and four checkboxes: 'Sys Root', 'DB Admin', 'Cash/Bank', and 'Report'. At the bottom are 'Cancel' and 'OK' buttons.



The 'User Modification' dialog box has three tabs: 'Add', 'Modify', and 'Delete'. The 'Modify' tab is selected. It contains a 'User Name' dropdown menu, a 'Password' text field, and four checkboxes: 'Admin', 'root', 'Cash/Bank', and 'Report'. At the bottom are 'Cancel' and 'OK' buttons.

4.4 Change password

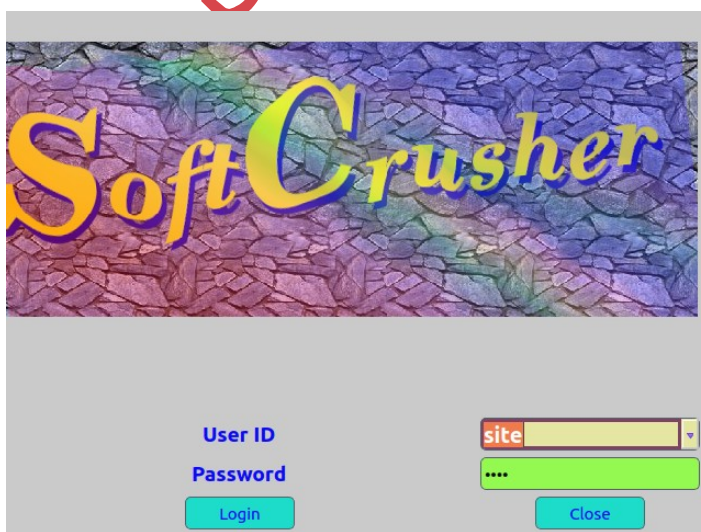


The 'Get Password' dialog box has a title bar with a close button. It contains a label 'Enter New Password' above a text input field. At the bottom are 'Cancel' and 'OK' buttons.

Navigation Path: Users -> Change Password

4.5 Login to the application

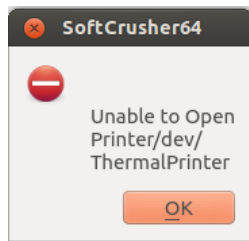
A login UI will be displayed at the start of the application.



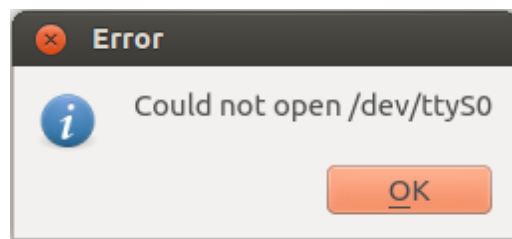
The login UI features a background image with the 'SoftCrusher' logo in a stylized, colorful font. Below the image, there are labels for 'User ID' and 'Password'. To the right of the 'User ID' label is a dropdown menu with 'site' selected. To the right of the 'Password' label is a password input field with four dots. At the bottom are 'Login' and 'Close' buttons.

Enter user id and password and click on Login.

In case you have configured Thermal printer and weigh-bridge and application not able to open them, the following error messages will be displayed.



This dialog box opens if no Thermal Printer is connected. Click OK and proceed.



In case its not able to connect to Weigh-bridge the following error will appear.

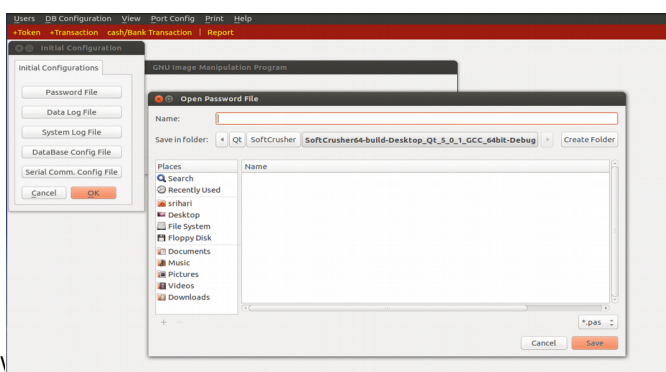
4.6 Initial Configuration

This is not required for normal users. This is onetime setup and done by Software engineer during installation.

You can skip this section.

Navigation Path : Users > Initial Configuration

Initial configuration has the following files to set.



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51

email: arun.ayachith@SHASRaTech.com

Contact: [+91 9731270001/9742475775](tel:+919731270001)

Last Edited: 02/25/18, 11:16:26 PM

Password File : Set the password file
Data Log File : Set the path for data log file
System Log File : Set system log file
Database Config File : Set database log file
Serial Comm. Config File : Set serial communication configuration file.

4.7 Logout

Navigation Path : Users > Logout
Use this to logout from existing user

4.8 Exit

Use this to exit from the application.

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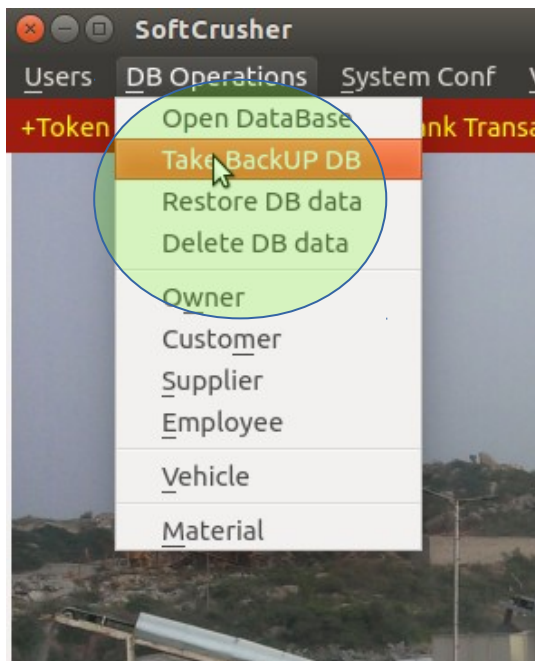
5 DB Configuration

5.1 Open Database

Navigation Path : DB Configuration > Open Database

Open database helps you in creating database during first time installation. You need to provide Server name, DB name, DB type, user name and password to create the database.

Section 8.2, 8.3 deal with Complete DB backup, Restore. For **incremental Backup** refer to section [10.1 Database related Ops](#)



5.2 Take Back-up DB

Navigation Path : DB Configuration -> Take Back-up DB

This utility takes backup of database periodically.

5.3 Restore DB data

Navigation Path : DB Configuration -> Restore DB data

Helps you in restoring data back to the database

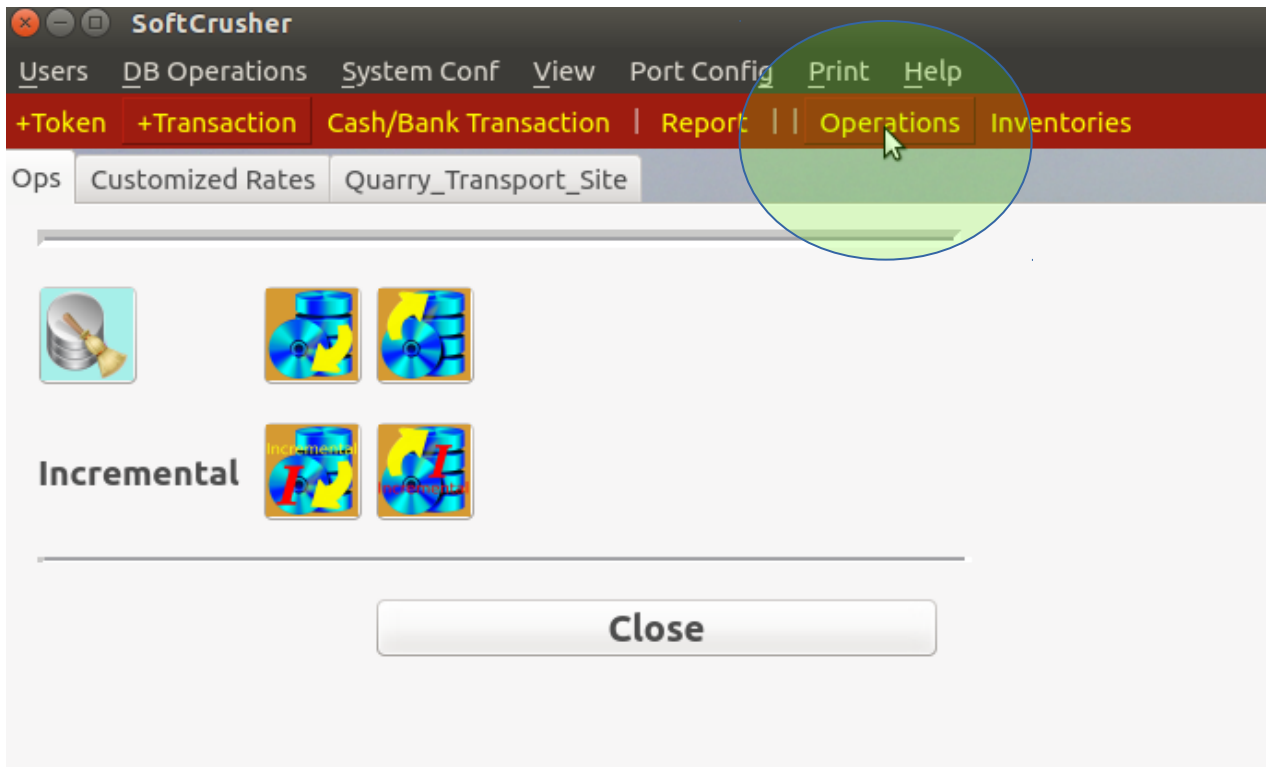
5.4 Delete DB data

Navigation Path : DB Configuration -> Delete DB data

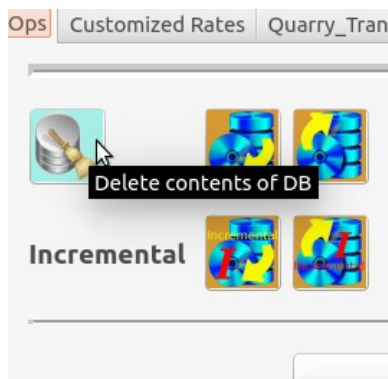
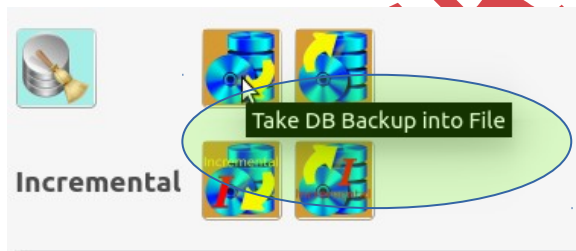
Helps you in Deleting data from the database

5.5 Alternate Method

Alternatively you can take backup by clicking Operations in tool bar,



and then clicking the Backup Icons for Full/Incremental Backup



Deleting the DB Data can be done by clicking the Delete Contents of DB Icon and proceeding further.

5.6 Customer

Navigation Path : DB Configuration ->

Customer

Customer Configuration

Insert Update Delete

Name ☒ Mr ☐ Mrs ☐ M/s ☐ Miss ASC

Address #33, 12th Cross, 12th Main,
Raghavendra Block,
Srinagar,
Bengaluru - 560050

Print Display Name Arun Stone Crusher

Phone Number 9731270001

Start Date

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
13	27	28	29	30	31	1	2
14	3	4	5	6	7	8	9
15	10	11	12	13	14	15	16
16	17	18	19	20	21	22	23
17	24	25	26	27	28	29	30

Close Insert Insert and Close

This helps you to

insert / update / disable Customer.

Note:

- The customers/Vehicle/Material can be added dynamically during transactions also. Refer to section
- If you provide a 'Print Display Name' it will be used for printing the Customer Name instead 'Name'.

5.7 Supplier

Navigation Path : DB Configuration -> Supplier

This helps you to insert / update / disable Supplier.

5.8 Employee

Navigation Path : DB Configuration -> Employee

This helps you to insert / update / disable Employee.

5.9 Vehicle

Navigation Path : DB Configuration -> Vehicle

Use this utility to insert a new vehicle / Tare weight or update an existing vehicle.

The screenshot shows a software window titled 'Vehicle' with two tabs: 'Insert' (selected) and 'Update'. Below the tabs are two green input fields. The first is labeled 'Vehicle' and the second is labeled 'Tare Weight' with 'KG' to its right. Below these fields is a large empty rectangular box labeled 'Other Details'. At the bottom, there is a 'Start Date' field with the value '20/04/16' and a dropdown arrow. At the very bottom are three buttons: 'Cancel', 'Save', and 'Save and Continue'.

5.10 Material

Navigation Path : DB Configuration > Material

This feature helps you to add/update material.

The screenshot shows a software window titled 'Material' with a menu bar (Users, DB Configuration, View, Port Config, Print, Help) and a toolbar (+Token, +Transaction, cash/Bank Transaction, Report). Below the toolbar are two tabs: 'Insert' (selected) and 'Update'. The 'Insert' tab has three input fields: 'Type' (empty), 'Price' (empty), and 'Units' (containing '1000'). Below these fields is a large empty rectangular box labeled 'Other Details'. At the bottom are 'Cancel' and 'OK' buttons.

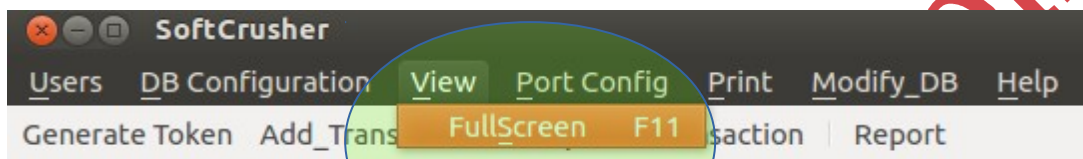
The screenshot shows the same 'Material' window but with the 'Update' tab selected. The 'Type' field now contains '12MM_Jelly', the 'Price' field contains '325', and the 'Units' field contains '1000'. Below the 'Other Details' box, there is a checkbox labeled 'Disabled' which is checked. At the bottom are 'Cancel' and 'OK' buttons.

To Modify
the rate of an existing material, there are 2 methods.

- ◆ Navigation Path: **DB Configuration > Material > Update**. Select **material** in **Type**. You can change the Price/Units of the material.
- ◆ Also, you can disable this material so that it will not be displayed while adding a new Transaction.
- ◆ To modify the rate for the current transaction [only for the current transaction], change the value in rate field in transaction

6 Full screen view.

6.1 Toggling full screen view.



To view the application window in full screen mode click on View -> FullScreen or F11 button or hold Alt+VS.

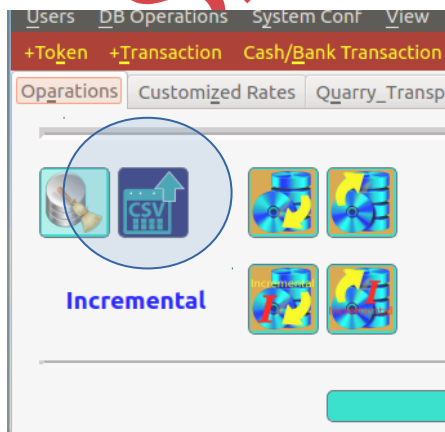
7 Operations

This section deals with Database related activities, SMS Notifications, Customized Rates for specific customers, and configuration related to Quarry/Transport/Sites.

These features [except DB related], could be specific to each client and may not work on all builds.

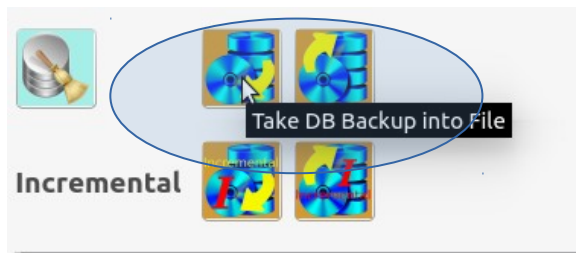
7.1 Database related Ops

7.1.1 Upload from csv file



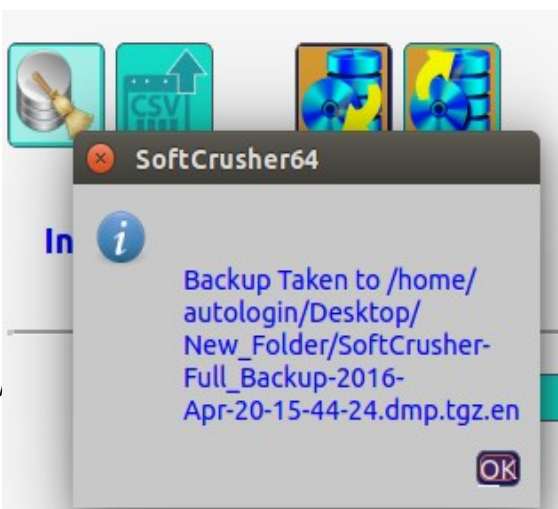
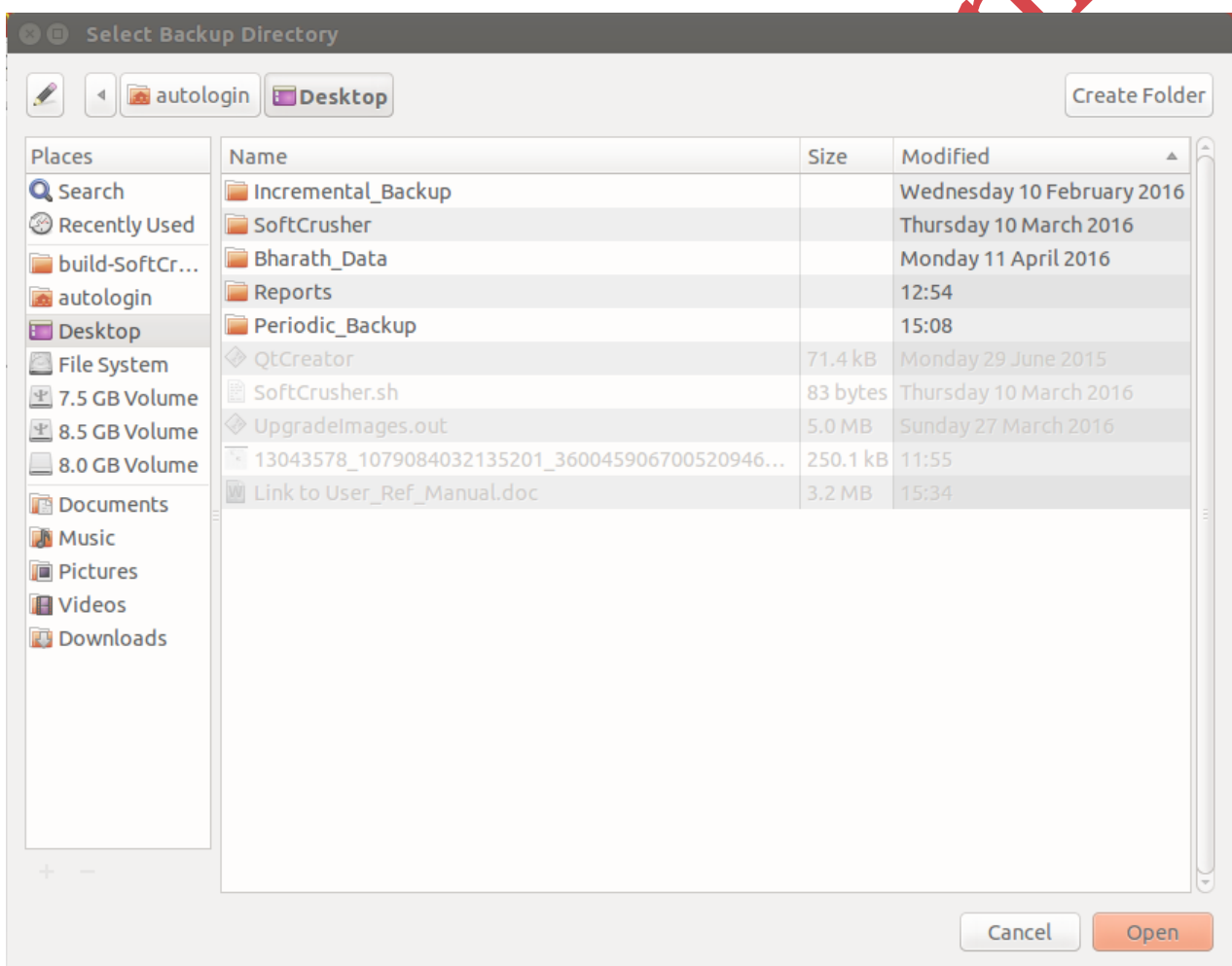
You can upload the data to Database using this button. The data has to be in the format of csv [comma separated value]. Example: to upload to Transactions table, Transactions, 2016-03-21 23:45:56,... format should be used. This way you can upload your old data from excel files.

7.1.2 Take Full-Backup



Clicking this pops up another [file] window where you can select the directory where you want the backup file to be stored. You can also create a new directory if you want to do so and store in that new

directory.



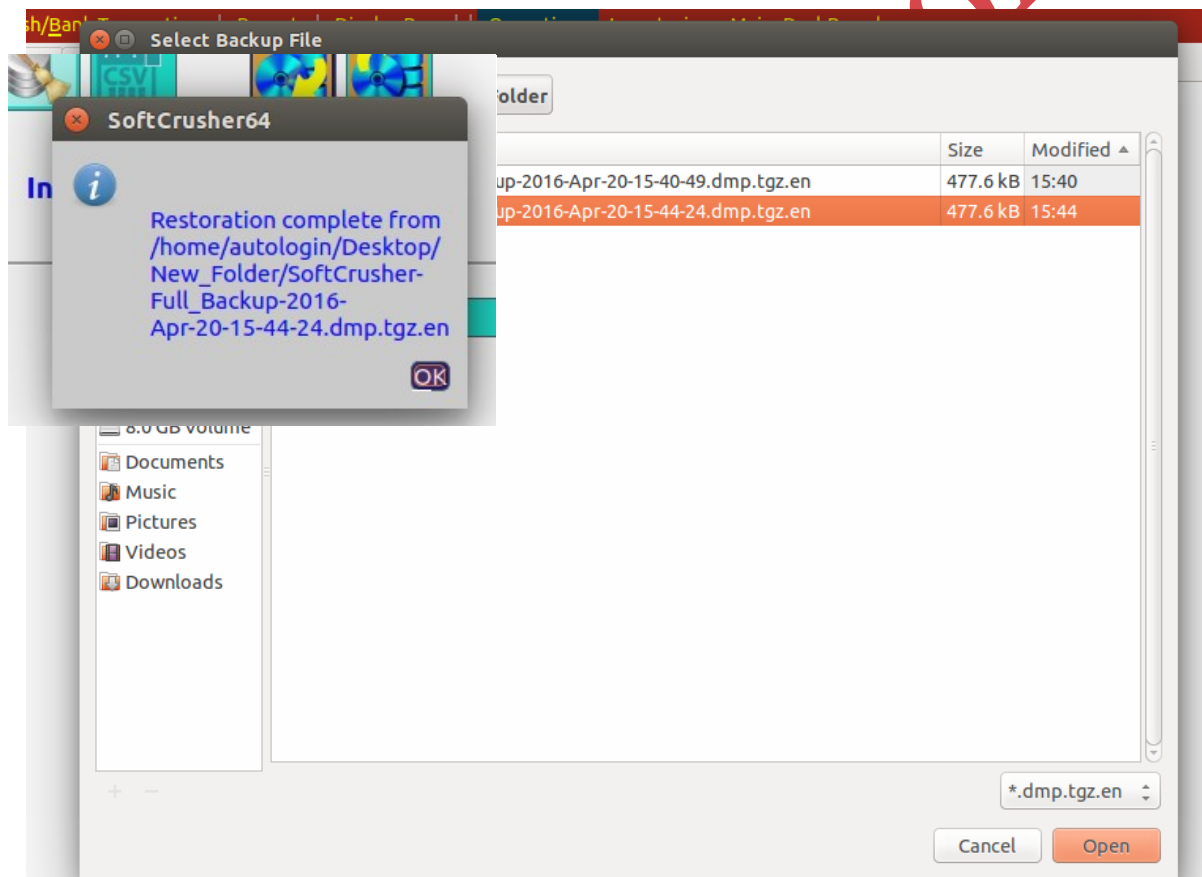
On completion of the Backup, Message box informing the backup completion and the dir/file where it is stored will pop-up.

Note: the file is in zipped and encrypted format and you can't open the file normally. You can only restore it through the software.

7.1.3 Restore Full-Backup

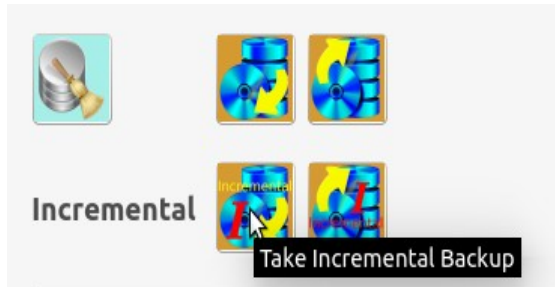
You can restore the complete backup taken from section 9.1.2, using the restore button next to take full-backup button.

Click the restore button, window will open to select the file which you want to restore, select the file and click open.



Once the restoration is complete, the pop-up message will come.

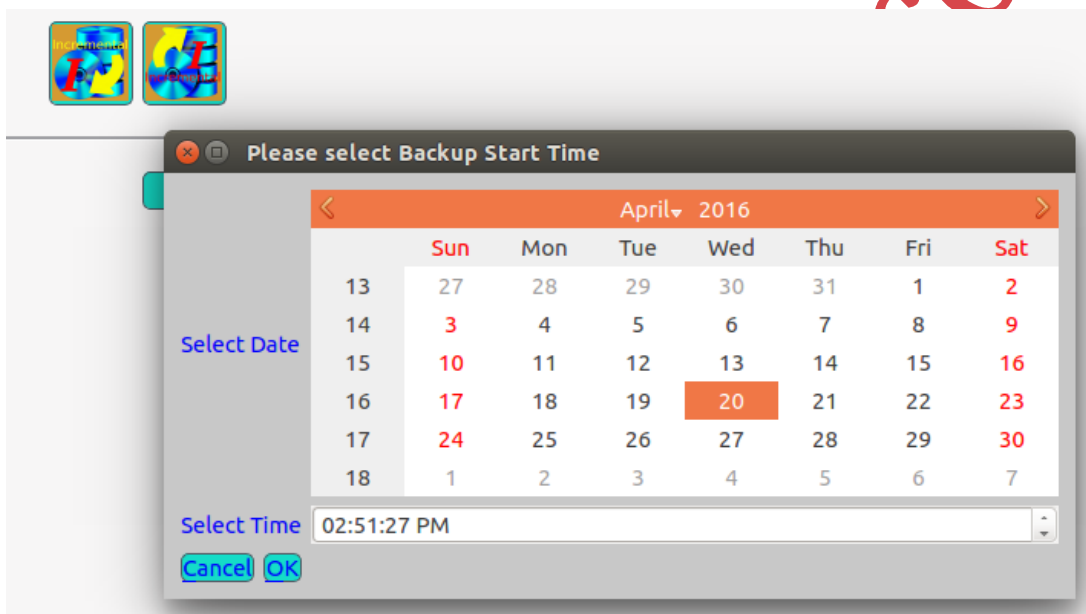
7.1.4 Take Incremental-Backup



Click incremental backup button as shown. This will prompt for date/time selection for Start and End of incremental backup boundary.

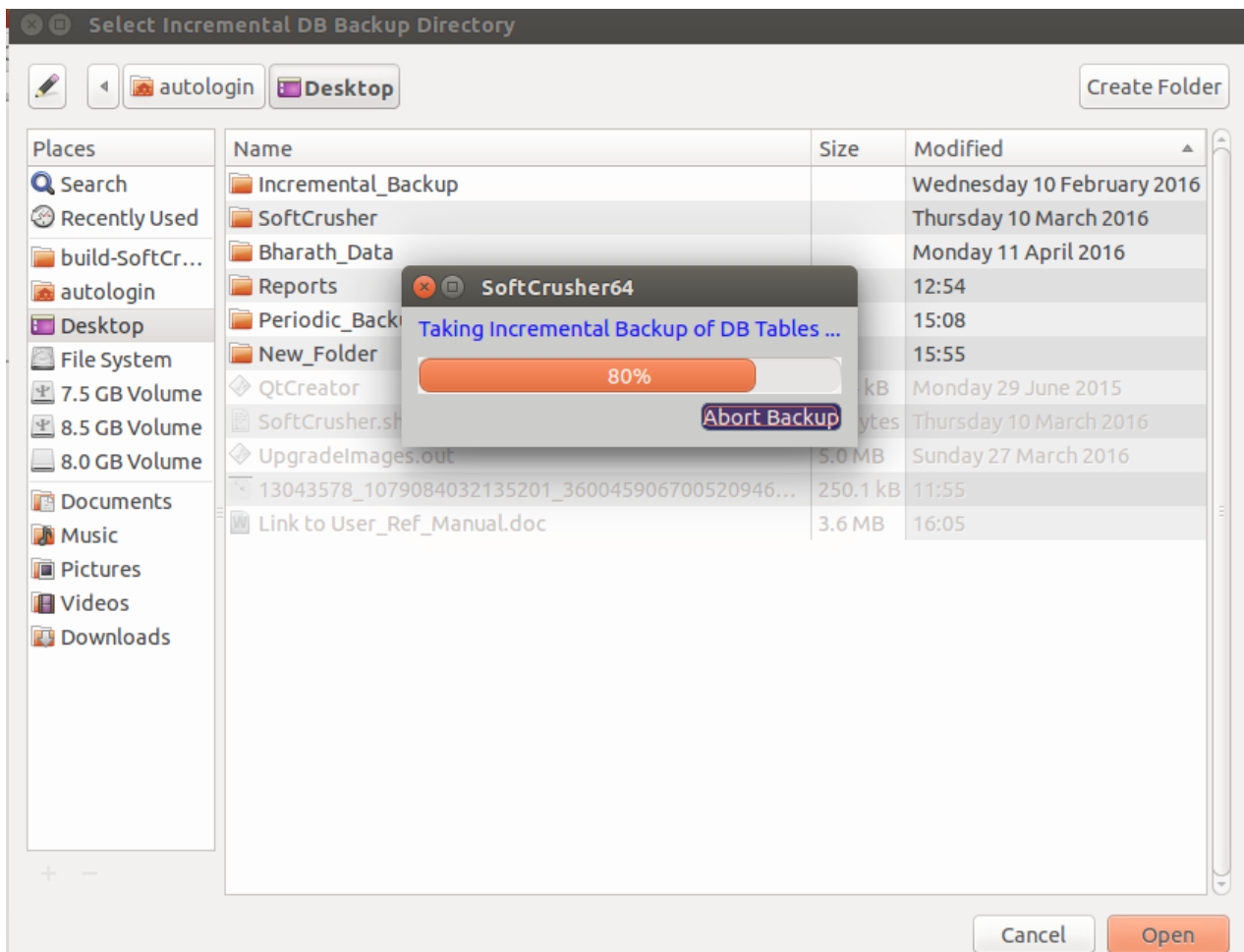
Select as required.

By default, the start time will be the end time of last backup. End time will be current time.



- Window will pop-up to confirm Window will pop-up choose the directory.
 - You can choose the USB pen drive directly and store it there.
 - Also, you can make new directory if you wish in HDD [HardDiskDrive] or USB pendrive.
- Once you choose the directory, a progress bar will show the progress.
- Finally message indicating where the incremental backup file

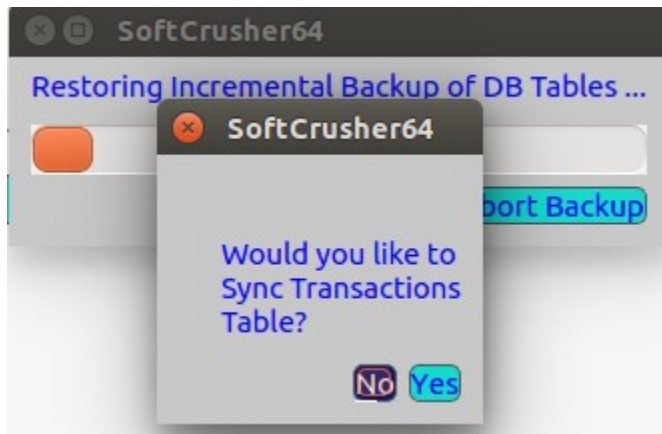
is stored.



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7.1.5 Restore Incremental-Backup

- A window will pop-up for choosing the directory and the file we want to restore.
- Then another window for confirmation of restore.
- Then another window for confirmation of each table that you want to restore one by one.



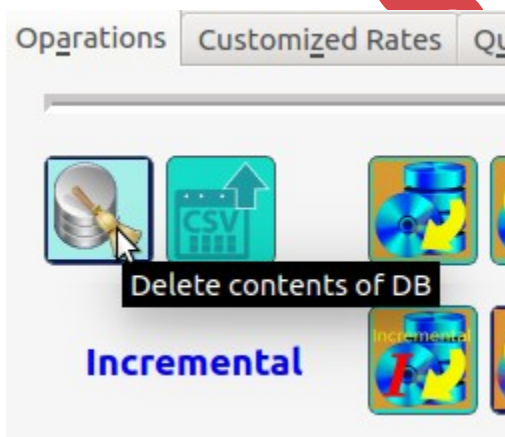
- Restore the tables that you want to restore. Since you may want to selectively restore tables, this option is provided.

- Once you restore the

Transactions/MoneyTransactions/Inventory table Accounts table is also generates records as required.

- Final pop-up window indicating the restoration is complete shows.

7.1.6 Delete data from Database



- Click delete-contents of DB button as shown to clean old data. Window will pop-up prompting to choose the start and end date for deleting the data.
- Note: there is a check box which can be clicked to delete data from all the tables added during this time-range.

○ **Use it carefully.**

Delete Contents of DB

Delete_Data

From Date

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
13	27	28	29	30	31	1	2
14	3	4	5	6	7	8	9
15	10	11	12	13	14	15	16
16	17	18	19	20	21	22	23
17	24	25	26	27	28	29	30

To Date

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
13	27	28	29	30	31	1	2
14	3	4	5	6	7	8	9
15	10	11	12	13	14	15	16
16	17	18	19	20	21	22	23
17	24	25	26	27	28	29	30

☐ Delete Everything

Cancel **Delete**

□

- Once you select the time-range and say delete, it will prompt for each table. This way you will have control on what tables to cleanup and what tables not to cleanup. Example: you may want to clean-up transactions, Moneytransaction. But not Vehicle details, Customer details.

□ Finally a confirmation window will pop-up showing the status.

7.2 Custom Rates

The screenshot shows the 'Customized Rates' window. On the left, there are dropdown menus for Customer (MRT), Material (M_Sand), and Site (Default_Self). Below these are input fields for Price (650.15) and Base Price (520.00). At the bottom left are buttons for 'Close', 'Save', and 'Reset All_All'. On the right, a table displays a list of 12 entries, each with a timestamp.

Custom Rate Configuration
Note: there are 2 values, price and BasePrice.

- Price is the value that is used in case you deliver the material to customer site.
- In case customer arranges for the transport by himself base price will be used.

You can set customized values to each customer/site/Material combination.

Note: once you set the customized value to a combination Default Check-box will be unchecked.

You can click Reset_All_All to clear all the customized_rates.
Use it with caution.

All the configured values will be listed in the table shown next.

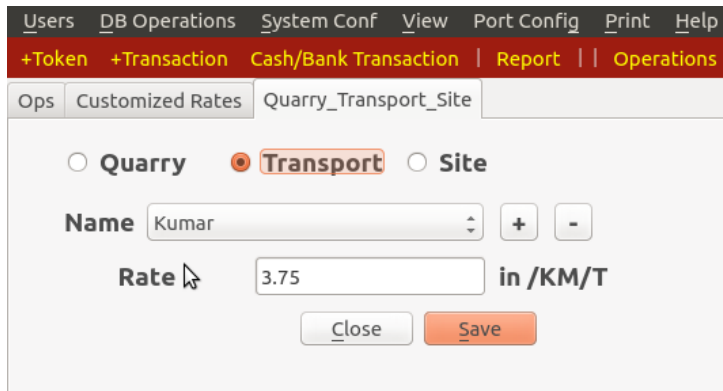
+Token +Transaction Cash/Bank Transaction Report Display Box Operations Inventories Main_DashBoard									
Operations Customized Rates Quarry_Transport_Site Site_Details									
Customer	MRT								
Material	M_Sand								
	TimeStamp	Create_Time	id	Cus		Site	Pric		
1	04/04/16 9:29 AM	04/04/16 9:29 AM	128	Abhiran	Remove this entry	Default_Self	390		
2	04/04/16 9:29 AM	04/04/16 9:29 AM	129	Abhiran	Modify price Print this table	Default_Self	410		

You can right-click on entry in the table and these options you can select.

- Remove this Entry.
 - Use this to remove the perticular configured entry.
- Modify Price
 - Modify the rates, both Price and BasePrice one by one.
 - Also, you can select the desired combination and then modify the price and click save button.



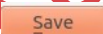
- Print this table. This is for records and you can use it to cross verify or take a hard copy.
- Advantage of Customized Rates is discussed in section **Customized Rate Advantage**

7.3 Quarry Transport Site Details



You can add Quarry, Transport & Site related details using QTD tab under Operations.

- Select the item that you are interested in, by selecting the radio buttons.

- Already entered data will be shown in the drop down Combo-box.
- Changing selection will show the respective value /rate/distance.
- You can add new combination by clicking  button
- You can delete existing combination by  clicking button
- Existing value/rate/distance can be altered by changing the value and clicking  button.

7.4

Site Details

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SoftCrusher64 User Reference Manual

+Token +Transaction Cash/Bank Transaction Report Display Box Operations Inventories Main_DashBoard																																																																																					
Operations Customized Rates Quarry_Transport_Site Site_Details																																																																																					
<div style="margin-bottom: 5px;"> Site ombale_Kanminke </div> <div style="margin-bottom: 5px;"> PO_Number HCEPLP02015090090 </div> <div style="margin-bottom: 5px;"> Num Printouts 4 </div> <div style="margin-bottom: 5px;"> Address </div> <div style="border: 1px solid black; padding: 2px; font-size: small;"> Kanmineke Plant Simen CP 30 Kanmineke Near Christ College </div> <div style="margin-top: 10px;"> Close Save </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Name</th> <th>Distance</th> <th>PO_Num</th> <th>Address</th> <th>Num_Printout</th> </tr> </thead> <tbody> <tr><td>1</td><td>Hombale_Kanminke</td><td>28</td><td>HCEPLP02015090090</td><td>Kanmineke Plant Simen CP ...</td><td>4</td></tr> <tr><td>2</td><td>Hombale_Komghatta</td><td>25</td><td>HCEPLP02015090091</td><td></td><td>4</td></tr> <tr><td>3</td><td>ARK_Manyatha</td><td>45</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>Default_Self</td><td>0</td><td></td><td></td><td></td></tr> <tr><td>5</td><td>D_25KM</td><td>25</td><td></td><td></td><td></td></tr> <tr><td>6</td><td>D_26KM</td><td>26</td><td></td><td></td><td></td></tr> <tr><td>7</td><td>D_27KM</td><td>27</td><td></td><td></td><td></td></tr> <tr><td>8</td><td>D_28KM</td><td>28</td><td></td><td></td><td></td></tr> <tr><td>9</td><td>D_29KM</td><td>29</td><td></td><td></td><td></td></tr> <tr><td>10</td><td>D_30KM</td><td>30</td><td></td><td></td><td></td></tr> <tr><td>11</td><td>D_31KM</td><td>31</td><td></td><td></td><td></td></tr> <tr><td>12</td><td>D_32KM</td><td>32</td><td></td><td></td><td></td></tr> <tr><td>13</td><td>D_33KM</td><td>33</td><td></td><td></td><td></td></tr> </tbody> </table>		Name	Distance	PO_Num	Address	Num_Printout	1	Hombale_Kanminke	28	HCEPLP02015090090	Kanmineke Plant Simen CP ...	4	2	Hombale_Komghatta	25	HCEPLP02015090091		4	3	ARK_Manyatha	45				4	Default_Self	0				5	D_25KM	25				6	D_26KM	26				7	D_27KM	27				8	D_28KM	28				9	D_29KM	29				10	D_30KM	30				11	D_31KM	31				12	D_32KM	32				13	D_33KM	33			
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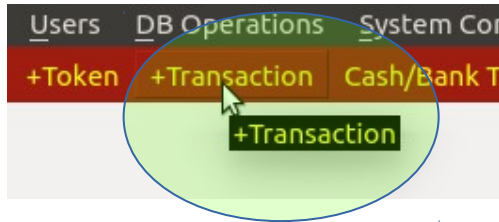
You can enter the Purchase_Order number for given site the number of printouts for each site and the address to be used for generating tax-invoice.

Note : at the end of each material transaction a delivery slip will be generated. Num_Printout refers to how many copy you want to print for this site.

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8 Transaction Entry

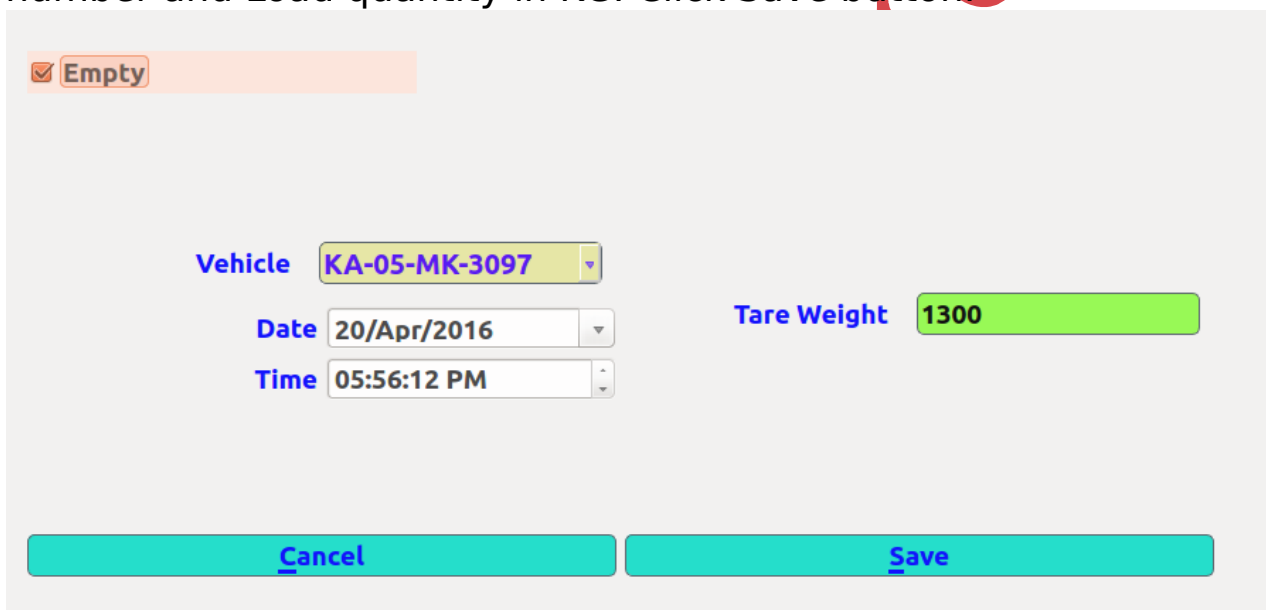
8.1 Add Transactions



- Transaction UI is opened by clicking Transaction tool-button as shown above.

8.1.1 Empty Vehicle Adding

- New vehicle can be added either with Transaction button or with DB_Operations/Vehicle.
- **Empty** : Check this if the vehicle is empty. Enter Vehicle number and Load quantity in KG. Click Save button.



- **In/Out** : Check this radio button for vehicle movement.
- **Cash/Credit** : Check this radio button for cash or credit transaction.
- Enter vehicle number. Vehicle number follows these 4 patterns. **[MYW-3097] [KA-05-3097] [KA-AB-3097] [KA-05-MK-3097]**
 - this restriction is to prevent human errors while entering the vehicle number.
- material type.
- Rate will be updated automatically based on the material type.

- Note: rate will be updated as per Custom_Rate also.
- Rate will be displayed based on
 - the login user [whether he/she has admin privileges or not
 - cash or credit
- Rate will be editable also based on above mentioned conditions.
- Enter Customer/Supplier.
- **If QTD model used, then enter Transport and also Site.**
- Load quantity will be updated as soon as vehicle enters into weigh bridge. Empty weight in KG will be displayed. Total amount is displayed. If cash is received enter amount in cash payment column. Balance to pay column shows balance amount to be paid.
- **Update Reading** : This button enable you in refreshing data for Load quantity.
- **Thermal/Laser printer**: You can choose which printer you want the DC slip to be printed.
- **Print company details** : prints the company details [this crusher name and address] on the DC slip if this is checked while printing on thermal printer.
- **Date** : Displays current date
- **Time** : Displays current time.
 - *You can use old date and time in case you are entering a missed out transaction.*
- **Take Photo** : Takes picture of the vehicle and material
- Cash paid, Credit/Balance, Total val will be displayed for cash entries only. [this behavior changed for some customer on request]
- **DC Number** : DC Number generated for all credit entries. [this behavior changed for some customer on request for cash entries also]. DC_number can be per Customer or just a running number. DC_Number can reset to 1 after certain limit reached. And this can be configured using System configuration under System tab as explained in [21.5 System level Configuration](#).
- **Cancel** : Cancels transaction.
- **Save** : Save transaction

SHASRaTech.com - Sri Hari Automation Solutions
SoftCrusher64 User Reference Manual

Users DB Operations System Conf View Port Config Print Help

+Token +Transaction Cash/Bank Transaction | Report | Display Box | | Operations Inventories Main_DashBoard

☐ Empty ☐ Print Company Details ☐ In ☒ Out ☐ Cash ☒ Credit

Vehicle KA-05-MK-3097

Customer Arun

Material M_Sand Load Quantity in KG 25000

Transport Trans_Arun2 Tare Weight 1300

Site Arun_Site1 Material Weight 23700

Printer Type ☒ Laser ☐ Thermal DC Number BLR01199

Rate 550

Date 20/Apr/2016

Time 05:56:12 PM

Cancel Save

Supplier Configuration

Insert Update Delete

Name ☒ Mr ☐ Mrs ☐ M/s ☐ Miss ABC crusher

Address

Phone Number ID 1

Start Date

February 2013						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
5	27	28	29	30	31	1
6	3	4	5	6	7	8
7	10	11	12	13	14	15
8	17	18	19	20	21	22
9	24	25	26	27	28	1
10	3	4	5	6	7	8

Close Insert Insert and Close

• Following dialog box gets displayed whenever there is a new entry for Supplier/Customer. Enter required details and click Insert and Close button.

• Similarly for Material also, a dialog box will pop-up in case of adding a new Material.

• Note: New Material and Customer, Supplier can be added with admin privileges so that human errors are reduced.

• Also, Site and Transport can't be added directly from Transactions entry to prevent human errors.

• Also, for incoming boulders we can use the transactions dialog to enter data. But it would be much easier to add it through [Display Box](#) and [software Display Box](#).

8.2 Customized Rates Advantage

VehicleNum KA-05-MK-3096

MaterialType 12MM

Rate 395

Customer SDI

Load Quantity in KG 0

Empty Weight in KG 0

Total Amount 0

Changing the any of the values in

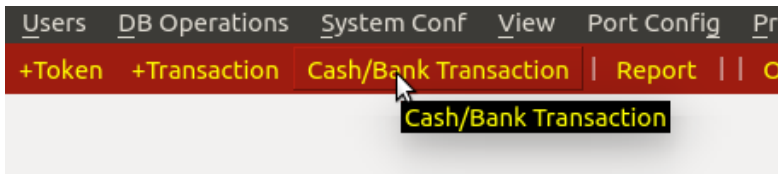
Customer/Material/Site will automatically pick customized rate in case it is configured.

Please refer to accounts entry shown in “**balance-sheet**” under “**report**”.

Example shown in section **13.2.2.1 Accounts Table entry for Transaction.** .

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9 Cash Transaction Entry



Cash UI is opened by clicking “Cash/Bank Transaction” tool-button as shown above.

A screenshot of the 'Cash' transaction entry form. The form has a tabbed interface with 'Cash' and 'Opening Bal' tabs. The 'Cash' tab is active. It contains radio buttons for 'Cash' (selected) and 'Bank', and 'Core' (selected) and 'Expenses'. Below these are dropdown menus for 'Frm A/C' and 'To A/C', both set to 'Company'. There is a green input field for 'Amount' and a date field for 'Transaction Date' showing '20/Apr/2016 06:44:53 PM'. At the bottom, there is a 'Cancel' button and an 'OK' button. A large red watermark 'SHASRaTech.com' is overlaid diagonally across the image.

- Cash transactions can be added here. Bank Transactions can be added by choosing Bank radio-button.
 - In case you want enter expenses, select Expenses radio-button.
 - A drop-down combo-box will appear along with 2 buttons to add/delete expense type.
 - Opening balances of each account can be added by 2nd tab.
- Please refer to accounts entry shown in “[balance-sheet](#)” under “[report](#)”.
- Example shown in section [Accounts Table entry for Money-Transaction](#).
- You can add opening balance of each account using Opening_Balance tab.
- Care should be taken select the radio-buttons whether account has to pay to the company or received from the company.

A screenshot of the 'Expenses' transaction entry form. It shows the 'Expenses' radio button selected. There is a dropdown menu for 'Expense Type' set to 'Advance' and a dropdown menu for 'Frm A/C' set to 'Company'. There are also two small blue buttons with '+' and '-' signs next to the 'Expense Type' dropdown. A large red watermark 'SHASRaTech.com' is overlaid diagonally across the image.

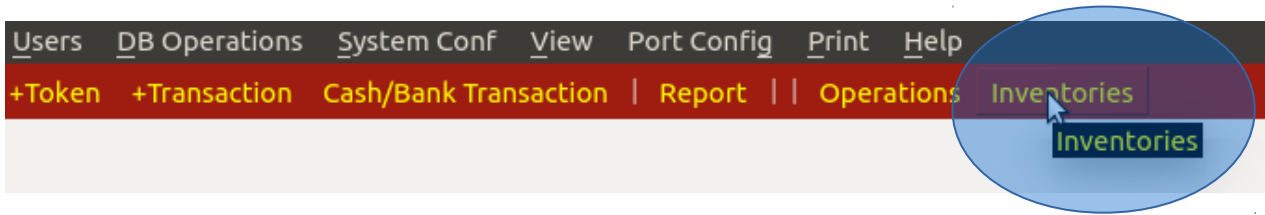
The screenshot shows a web application interface for 'Cash/Bank Transaction'. At the top, there is a navigation bar with links: +Token, +Transaction, Cash/Bank Transaction (highlighted), Report, Display Box, and Operations. Below this, there are tabs for 'Cash' and 'Opening Bal'. The main form area contains two radio buttons: 'Paid to Company' (selected) and 'Received from Company'. Below these, there is a label 'A/c' followed by a dropdown menu showing a minus sign. Underneath, there is a label 'Opening Balance' followed by a green input field. A large red watermark 'SHASRaTech.com' is diagonally across the page.

- Special type of accounts can be created as service/Contract type under DB_operations -> Service/Contractor.

9.1 Cash/Bank Transaction modification

Cash/Bank transactions can not be modified. In case of an error reverse/adjustment entry needs to be added.

10 Inventory Management



Inventory UI is opened by clicking Inventories toolbutton as shown above.

A screenshot of the Inventory UI. The top bar is dark grey with white text for 'Users', 'DB Operations', 'System Conf', 'View', 'Port Config', 'Print', and 'Help'. Below this is a red bar with yellow text for '+Token', '+Transaction', 'Cash/Bank Transaction', '| Report |', '| Display Box |', '| Operations', 'Inventories', and 'Main_DashBoard'. The 'Inventories' button is highlighted. The main area is light grey. It contains several input fields: 'Current Supervisor' (Amrut), 'M_Type' (Con_Crusher), 'Supervisor' (Raghavendra), 'M_Name' (Chk_Nut), 'Supplier' (Taurian), 'Batch #' (Po_No010), and 'Consumer' (1). There are also buttons for 'New Purchases', 'Close', 'Add Supervisor', 'Add Supplier', and 'Add Consumer'. Below these are fields for 'Qty: Batch Init' (1), 'Batch remain' (1), 'Ttl remain' (1), 'Rate' (58905), and 'Alert @ #' (1). There are checkboxes for 'Display Inactive', 'Alerty Only', and 'Cbx_Inactive Only'. Below these is a table with columns: Type, DB_Row_ID, Time, Rate, Supervisor, Supplier, Consumer, Init_Quantity, Remaining, Alert_Num, and Alert_Trigger. The table has several rows of data, including 'JawS', 'Bearings', 'Con_Crusher', and 'PZLN_JAWPL'. A large red watermark 'SHASRaTech.com' is overlaid on the bottom half of the screenshot.

10.1 New Purchase.

- For Inventory management, first add list of supervisors, Suppliers, Consumers [if known].
- Click New_Purchases.
- Click add items, which prompts for Material Type, Material name, Batch number, quantity and rate. It automatically picks up supervisor from the list which is selected. Supplier also automatically chosen. We can edit and change if required.
- It will prompt at what remaining number a alert should be triggered. Please enter the number.
- Then the inventory will be added to DB.
- Please refer to accounts entry shown in “[balance-sheet](#)” under “[report](#)”.
- Example shown in section [Accounts Table entry for Inventory](#).
- **Note: New purchase will add entry to accounts table for the purchase with both supplier and the company.**
- **But an expense entry is added only when the inventory is issued for consumption.**
- There are other check-boxes like
 - Display inactive [to display old items which were completely issued]
 - Alert-only [to indicate which are the items hit lower limit]
 - Inactive-only [to display only completely consumed items].

10.2 Inventory alterations.

Inventory entry can be changed in multiple ways based main 2 categories, [In]/[Out].

10.2.1 Inventory alterations **In** entries.

10.2.1.1 Issue **In** entries.



10.2.1.2 You can issue an entry that has been purchased. Revert **In** entries.

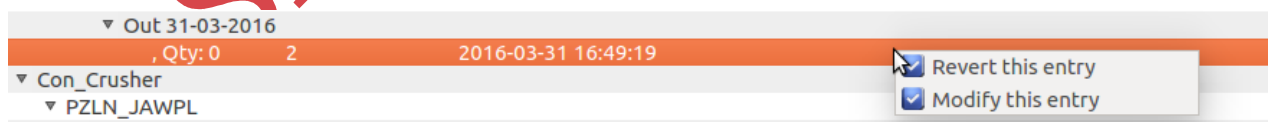
You can revert an in-entry, provided if no items are issued.

10.2.1.3 Modify **In** entries.

You can modify an in-entry that has been purchased, under certain conditions. Like,

- Rate, Supplier, Supervisor can be modified.
- Initial Quantity that is purchased can be altered, provided it is more or equal to issued numbers.
- Alert Number can be altered.

10.2.2 Inventory alterations **Out** entries.





You can modify an out entry in 2 ways.

- ☐ You can revert the entry
- ☐ You can change the issued items in the limit, change supervisor, consumer.

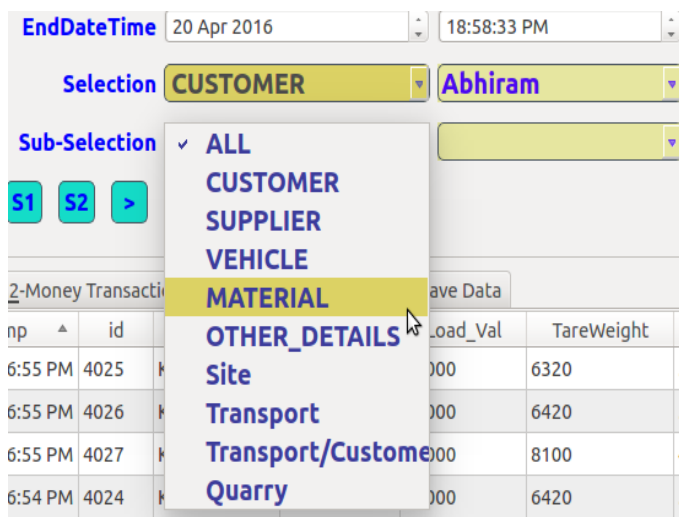
11 Report Viewing

This section displays report for the selected criteria.

StartDateTime	Select start date and time
EndDateTime	Select end date and time
This Year	Selects the time range to current year.
This Quarter	Selects the time range to current quarter.
This Month	Selects the time range to current month
This Week	Selects the time range to current week.
Today	Selects the time range to current day.
< S1	Selects the time range to Morning shift [S1]. 8AM to 7:59:59 PM
S2	Selects the time range to Night shift [S2]. 8PM to 7:59:59 AM
>	Shifts the current selection by one: If today is selected, then previous day time-range is selected. If this week is selected, then previous week time-range is selected. ...
	As explained above, next range will be selected.
Display columns all	By default, some of the columns are not displayed. Like material weight = Total weight - tare-weight. By checking this, you can see all the columns.
In/out/both Cash/Credit/Both Empty/Load/Both	You can filter by choosing these radio-buttons.

	<p>This button toggles the selection-frame size. This is done to display as many rows are possible.</p>
	<p>This button generates reports for all the customers, suppliers, employees, partners, Transporters ... refer to section <u>Generate Reports</u></p>

11.1 Filtering the reports



Selections : Select from list of values displayed. List of values for this list are 'All', 'Customer', 'Supplier', 'Material' and 'Vehicle'. For example to display report for a particular customer, select 'CUSTOMER' and customer name from selections.

Click “show” to update the report.
Similarly other conditions can be selected.

11.2 Contextual Menu.

You can right-click on the rows and do several operations as listed.

1-Transactions 2-Money Transactions 3-Balance Sheet 4-AutoSave Data									
	C_TimeStamp	id	Vehicle	Material	Load_Val	TareWeight	Date	TH_Mat_Val	T
5	17-Apr-2016 06:55 PM	4025	KA-01-7759	M_Sand	25000	63			0
6	17-Apr-2016 06:55 PM	4026	KA-01-A-4741	M_Sand	25000	64			0
7	17-Apr-2016 06:55 PM	4027	KA-01-A-7021	M_Sand	25000	81			0
4	17-Apr-2016 06:54 PM	4024	KA-01-A-4741	M_Sand	25000	64			0
3	04-Apr-2016 05:36 PM	4022	TN-70-Q-5333	12MM	10610	10			0
2	04-Apr-2016 04:50 PM	4020	TN-70-Q-0399	M_Sand	10310	10			0
1	04-Apr-2016 04:37 PM	4018	TN-70-Q-0399	M_Sand	10350	10350	628.75	0	0

- Modify this entry
- Modify Delivery Challen Number
- Print this Transaction
- Add Comments to Transaction
- DC Slip Received
- DC Slip NOT Received
- Delete this Transaction
- Modify item for "ALL" Transactions

11.2.1 Modify this entry.

In case you want to modify the entry, right-click and select **"Modify this entry"**.

- With this transactions entry tab will open with data from this entry populated as required.
- Now you can make changes are required and save.
- This will take care of reverting old accounts as required and making new entries into accounts table as required.

11.2.2 Other activities possible

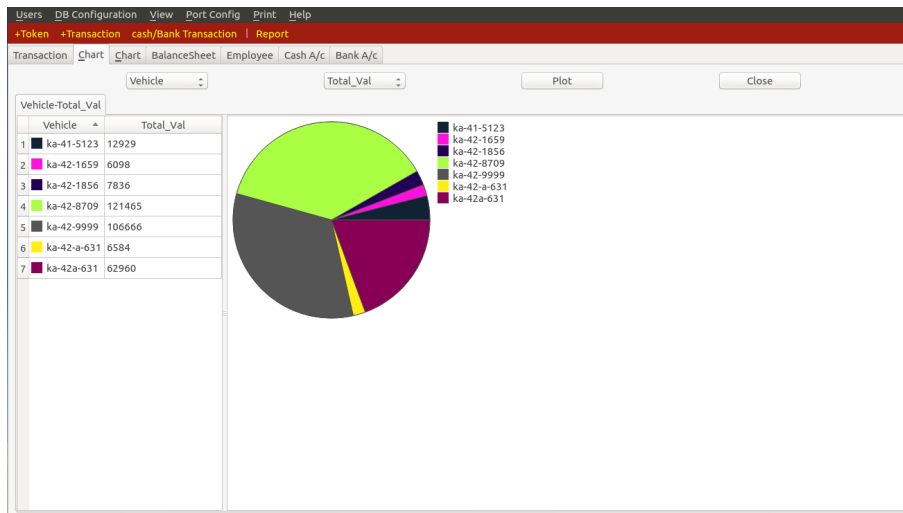
- In case you want to modify DC_Number for this entry, right-click and select **"Modify Delivery challan Number"**, and proceed accordingly.
- Re-printing the transaction. In case you have missed out, DC Slip and you want re-print the DC_Slip you can do it by right-clicking and selecting **"Print this Transaction"**.

11.2.3 'Modify item for "ALL" Transactions'

- Due to its serious effects [if not handled with care], it can modify all the entries in the Database. So only users with **admin privileges** are permitted to use this.
- Most importantly, **'Modify item for "ALL" Transactions'**. Is very useful option but a **dangerous** option as well. **Use it with caution.**
 - You can choose the rows you want to do this operation by selecting correct filters like 'a particular customer/Site/Vehicle/Transport/' for given time and display it.
 - Next you can right-click and choose this option to modify for all the displayed rows.
 - What you want to modify will be prompted and then you can select per requirement.
 - Once you choose the modification, transaction tab will show up and then save the transaction.
 - This will make changes for all the rows accordingly.

11.3 Chart Generation

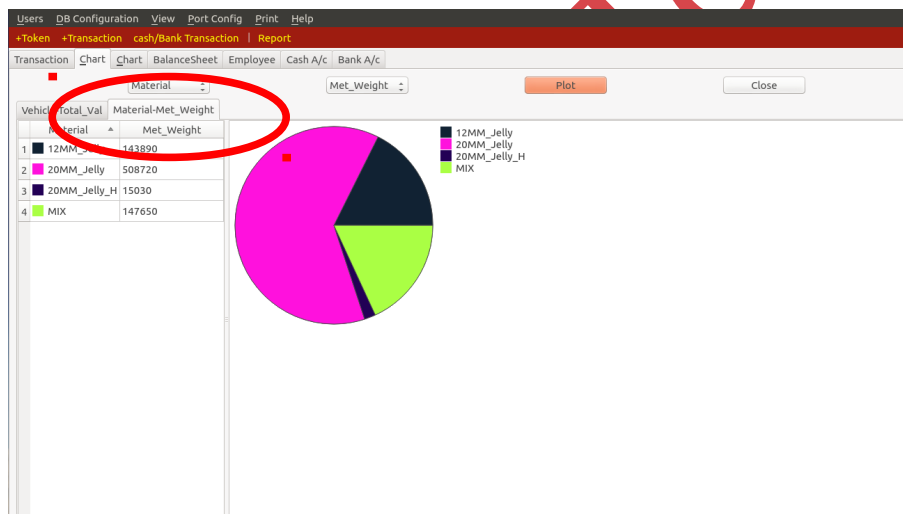
Click on chart, to display the chart relevant to the selected report.



11.3.1 Generat

e Chart with different parameters.

Select Material and Met_Weight and click on plot, a chart gets plotted based on the selected criteria.
Select the newly added tab to display the current selection.



11.4 Accounts

Table.

For each transaction entry [except empty load modifications], cash/bank/opening Balance, Inventory in, an entry into accounts table will be added.

11.4.1 Accounts Table entry for Transaction.

Example showing entry into accounts table for Transaction.

This is showing for a transaction with id = 2, which is for material out, material = 12MM, Material Rate = 390, Site = SCI, Transporter = Kumar, Transport rate = 3.75, material weight = 15900, we owe ₹ 2266 /- to transporter Kumar. And we have to get ₹ 8467/- from customer for the site SCI.

Also, it shows total outstanding.

+Token +Transaction Cash/Bank Transaction | Report | | Operations Inventories

This Year

This Quarter

This Month

This Week

Today

StartDateTime

26 Aug 2015

00:00:00 AM

EndTimeTime

26 Aug 2015

19:14:43 PM

Selection

ALL

Sub-Selection

ALL

Show

Cash in Hand

1201

Amt Received

2266

Amt Paid

8467

Turn-Over

0

Print Summary

Print

Close

1-Transactions

2-Money Transactions

3-Balance Sheet

4-AutoSave Data

11.4.2 Accounts Table entry for Money-Transaction.

Example showing entry into accounts table for Transaction.

The above entry shows opening balance entry for “cash” in company = ₹ 12000/-.

11.4.3 Accounts Table entry for Inventory.

Example showing entry into accounts table for Inventory In Entry.

1-Transactions 2-Money Transactions 3-Balance Sheet 4-AutoSave Data									
	TimeStamp	Acc_id	Ref_id	Reference	Details	AccountName	Received	Paid	Ttl_Received
1	26/08/15 9:32 PM	6	2	Inventory	II Lubricants EngineOil 2015-08-26 400 30	HP	12000	0	12000

The above entry shows Inventory coming in from HP, which is valued at ₹ 12000/-.

11.5 Printing

11.5.1 CSV format

Raw data can be taken into csv format in case it needs to be exported to excel. Transactions, Money-Transaction can be printed as csv files.

11.5.2 Dispatch Details and Tax-Invoice

You can print dispatch details in pdf format. Click print and then select pdf radio-button and then in drop-down combo-box select dispatch details.

Note: dispatch-details are per customer,Transporter or Transporter+customer.

Tax-Invoice is enabled on site basis as PO issued on site basis.

11.5.3 Balance-sheet printing.

In balance-sheet we have 2 print options. print_summary and print.

Print_summary prints summary for all the customers if no customer is selected, if customer is selected then only summary for that customer is printed.

Normal printing prints summary along with details. This is useful in case of individual reports.

11.5.4 Generate Reports

You can generate reports for a time range by selecting the time range and clicking generate reports. This will generate reports for all the customers/Vendors/Transports + employees.

12 Configuration and other files

Several files are used to log the system data and other details. They are listed below.

\$ cat Default.cfg

Password File	Default_Dir/Password.pas
DBConfigFile	Default_Dir/DataBaseConf.dbc
SysLogFile	Default_Dir/SysLog.sys
DataLogFile	Default_Dir/DataLog.dat
SerCommConfFile	Default_Dir/SerialCommConfig.ser

13 Port Configuration



By default at start up data from the file mentioned in Default.cfg in present working directory will be used to configure serial port for weigh bridge.

13.1 Weigh Bridge serial port Sample configuration

```
$ cat Default.cfg
Password File = Default_Dir/Password.pas
DBConfigFile = Default_Dir/DataBaseConf.dbc
SysLogFile = Default_Dir/SysLog.sys
DataLogFile = Default_Dir/DataLog.dat
SerCommConfFile = Default_Dir/SerialCommConfig.ser
```

```
$ cat Default_Dir/SerialCommConfig.ser
Port = /dev/WeighBridge
BaudRate = 2400
Parity = NONE
DataBits = 8
StopBits = 1
```

13.2 Change Weigh-bridge Serial Port configuration.

By default port will be opened.

To change the configuration click on “**Port Config**” -> “**Serial Comm**”.

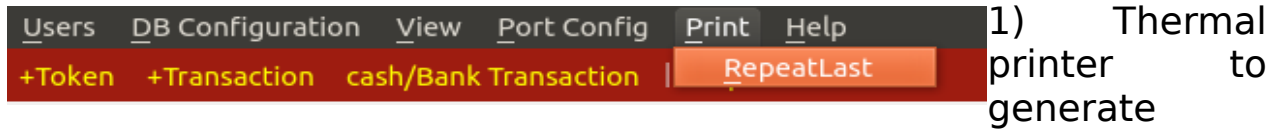
As the port is already open click on **Close Port button** to close the current port. This enables all the required input boxes. You can change Serial Port, Baud Rate, Data-bits, Stop Bits and Parity of serial port communication.

Once all the changes are made you can reopen the port by clicking **Open Port** button. Click on **Save Config** button to save.

Until the port is opened **AddTransaction** cannot automatically load the data from Weigh-bridge.

14 Printer

SoftCrusher operates with 2 printers.



tokens and receipts during the operations.

2) Normal printer to generate reports, balance sheet, A/c summary and A/c statements.

14.1

Repeat Last

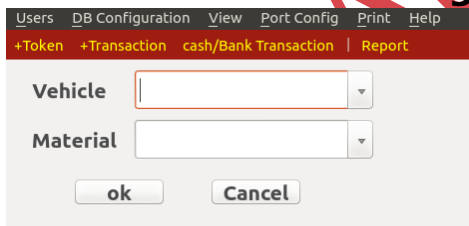
Navigation path: Print > Repeat Last

Repeat last prints the last record.

14.2 Generate Token

This is optional slip given to each vehicle for loading requested material.

14.2.1 Procedure to generate token.

A screenshot of a dialog box titled 'Generate Token'. It has a menu bar with 'Users', 'DB Configuration', 'View', 'Port Config', 'Print', and 'Help'. Below the menu bar is a toolbar with buttons for '+Token', '+Transaction', 'cash/Bank Transaction', and 'Report'. The dialog box contains two dropdown menus: 'Vehicle' and 'Material'. Below these are 'ok' and 'Cancel' buttons.

Click on Generate Token button in the tool bar menu.

Enter the vehicle number and material.

If a vehicle is already available then select the same from list of value. Click on OK.

15 Signaling Display Box



This is a micro-controller, custom PCB box, that turns on A/c

currents on several socket, and displays the tonnage of the truck as visible to truck drivers. will display the Ready, Wait, Go, Error signals for the truck drivers during the data entry operation. Once the data is entered into DB, software will generate Green [Go] Signal for the truck driver.

This box is a all-weather box, made of heavy gauge metal. This box is similar to electrical boxes we use outside houses. Its custom made box with power coating and good finish.

This box serves 3 purposes.

- 1) Display tonnage.
- 2) Give signals to truck drivers.
- 3) Take input from truck drivers. This will be useful when we want to have operator-less operations.

15.1 Signal to Truck Driver

The Operation follows these steps.

15.1.1 Ready State

Weigh bridge is ready for the data-entry. In this state a truck enters the weigh-bridge for load measurement. This state is indicated by the blinking light.

15.1.2 Wait State

In this state, the operator is making an entry into DB. Once the reading stabilizes, operator enters the data like, type of material, customer/supplier, vehicle number and other details as mentioned in [Add Transactions Section](#). Once operator saves the transaction, green signal will be turned on.

15.1.3 Go State

Once the green signal is enabled, driver can move the truck out of weigh-bridge, and the state will change to Ready.

15.2 Seven-Segment Display

This will display the tonnage outside as visible to truck drivers.

15.3 Operator-less Operations with Input Buttons

This is useful when operators are unavailable [during night times]. The drivers can punch the designated numbers, and the material type they are carrying and the data will be stored into DB automatically.

15.4 Software replica of Display Box

Display box is also available in software, that could be used to enter data from PC itself. Its an exact replica of the physical Display box.

15.5 Additional switches for A/c Output

Additional 2 [or more] A/c sockets are provided that could be used to turn on/off. Software switches are also provided that are used to turn on/off manually.

15.5.1 Configuration to turn on/off these A/c sockets time based

These A/c sockets can be turned on/off automatically, based on the system time. They will turn on when the vehicle comes on the weigh-bridge so that operator can see the vehicle details like vehicle number, truck driver and the material type.

This is also useful while capturing the images of truck/Material over night.

16 Cameras

Several cameras could be mounted that take snap-shot during the operation, which will prove about the driver and the material taken along with the timestamp.

This feature is useful during cross verification from customers and verifying operator-less operations.

16.1 Camera Dashboard for Remote-monitoring

SoftCrusher has a camera Dashboard with that, we can remote-monitor different locations. Several cameras can be installed and monitored remotely.

Future Development [IP Cameras integrated into SoftCrusher.]

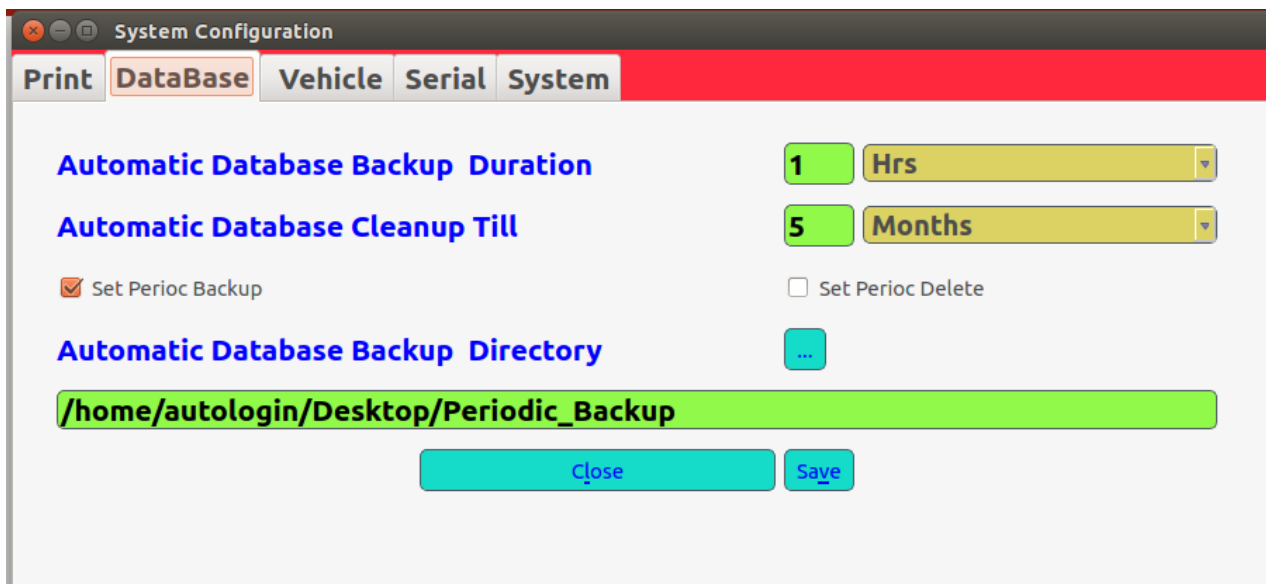
17 system Configuration

Several configurations are applied using system configuration tab. In this tab we can change,

17.1 *Print Directory*

Default print directory in case printer is not connected and the files to stored as pdf.

17.2 *Database configurations*



The screenshot shows a web-based 'System Configuration' window with a red header bar. Below the header are five tabs: 'Print', 'DataBase' (selected), 'Vehicle', 'Serial', and 'System'. The 'DataBase' tab contains the following settings:

- Automatic Database Backup Duration:** A numeric input field with '1' and a dropdown menu set to 'Hrs'.
- Automatic Database Cleanup Till:** A numeric input field with '5' and a dropdown menu set to 'Months'.
- Set Perioc Backup:** A checked checkbox.
- Set Perioc Delete:** An unchecked checkbox.
- Automatic Database Backup Directory:** A text field containing '/home/autologin/Desktop/Periodic_Backup' with a file selection icon (three dots) to its right.

At the bottom of the configuration area are two buttons: 'Close' and 'Save'.

You can configure automatic Backup, which takes incremental backup and also Full-Backup based as on the configuration.

You need to choose the directory where the backed-up data is stored.

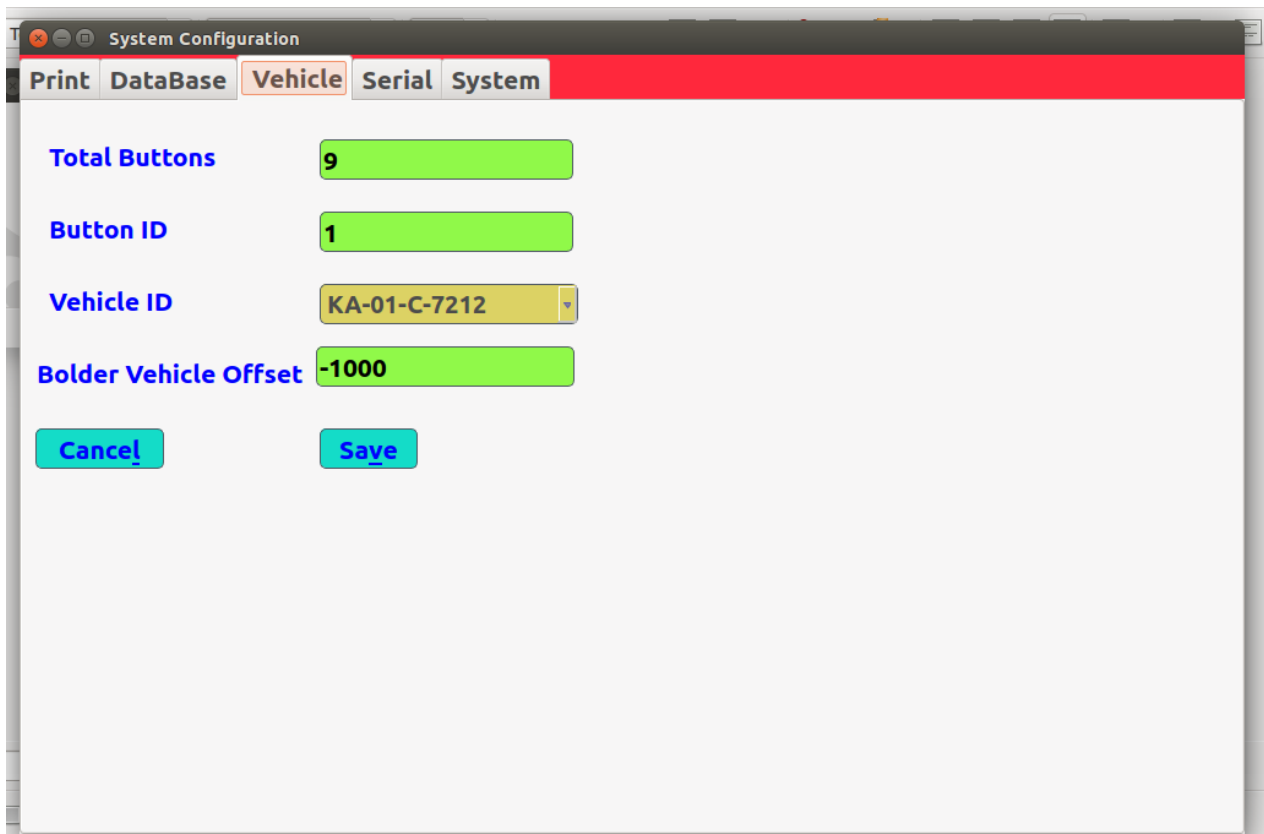
You need to choose the frequency at which the backup happens.

You can also, configure to clean-up data beyond certain limit. Say, if you configure to delete data till 5 months, then all the data older than 5 months will be deleted.

Note: for these things to take effect you need to check the relevant check-boxes.

You need to finally save the configuration for these to take effect.

17.3 Vehicle Configuration



The screenshot shows a 'System Configuration' window with a red header bar. Below the header are five tabs: 'Print', 'DataBase', 'Vehicle' (selected), 'Serial', and 'System'. The 'Vehicle' tab contains four configuration fields: 'Total Buttons' with a value of 9, 'Button ID' with a value of 1, 'Vehicle ID' with a dropdown menu showing 'KA-01-C-7212', and 'Bolder Vehicle Offset' with a value of -1000. At the bottom of the window are two buttons: 'Cancel' and 'Save'.

These are useful in configuring inputs for hardware & software display box.

Configure Total buttons that you want to have. [Maximum is 10]. This number is equal to different vehicles carrying boulders to site.

Choose button-id and choose corresponding Vehicle number to map each other.

Boulder-offset used to set the reduction in the input quantity due to mud or other factors.

It should be -ve value to reduce.

All these need to be saved.

Especially, the vehicle to id mapping needs to be saved for each id.

Note: This is a one-time activity and need not change till the vehicle is removed/modified/added.

17.4 Serial Port Configuration

This is related to weigh-bridge, and a one-time activity. This is done during installation and should not be changed later.

So, ignore this section.

17.5 System level Configuration

System Configuration

Print DataBase Vehicle Serial **System**

☐ Micro Controller Present ☐ WeighBridge Present
☐ Modem Present ☐ Thermal Printer Present
☒ System wide set Color ☐ Dynamic_Sync
☐ Boulders Printing Required ☐ Dc_Num/Customer

System Font 11

Max DC Num 2000

Company Logo WDESHWARI_LOGO.png

Tax Type + -

Company Tin No. 29871210724

Company Name WARI STONE CRUSHERS

Company Address No. 6/2, Munithayamma Complex,
1st Floor,
Ramohalli Village, Kengeri Hobli,
Bangalore - 560074

Cancel Save

Most of them are self explanatory.

You can add tax-type and the percentage of tax. Example: VAT 5.5%. This will be used in calculation of Tax-Invoice to customers.

18 Short-cuts and user friendly information.

Most of the keyboard shortcuts will work with Alt key. The shortcut key will be identified with underscore for the given letter.

Transactions = Alt + t

Generate Token = Alt + k

Cash/Bank = Alt + b

Report = Alt + r

Display Box = Alt + x

Operations [Configuration] = Alt + o

Inventories = Alt + i

Main Dashboard = Alt + a


System Configuration = Alt + y

Note: Use **tab-key** to move from item to item and to move backwards use **shift+tab-key**. This way operations will be very fast.

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19 Sample Printouts.

19.1 DC_Slip format:

 DELIVERY CHALLAN		ARUN STONE CRUSHERS No. 6/2, Munithayamma Complex, 1st Floor, Ramohalli Village, Kengeri Hobli, Bangalore - 560074 TIN: 12345678		
D C No: BLR01204	Date: 21-Apr-2016	Time: 12:15 AM	PO REF: ABCD_MY_PO_NUM1234	
COMPANY: Arun, Site1				
Item	Tare Wt(KG)	Gross Wt(KG)	Net Wt(KG)	Vehicle No
M_Sand	1300	25000	23700	KA-05-MK-3097
Met. Quality	Good <input type="checkbox"/>	Under Size <input type="checkbox"/>	Over Size <input type="checkbox"/>	
Dispatch Sign			Receiver Sign	

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19.2 Tax-Invoice Format:

TAX INVOICE							
		ARUN STONE CRUSHERS #33, 12th Cross, 12th Main, Raghavendra Block, Srinagar Bengaluru - 560050 TIN: 12345678					
Invoice No: CSC/2016Apr21/0080			PO No: ABCD_MY_PO_NUM1234		Gen Date: 21/Apr/2016 From : 01/Apr/2016 To: 21/Apr/2016		
Invoice To, Arun Constructions			Destination: Site1,		Dispatch Through:		
Mode/Term of Payment: Payment on Delivery.			Terms of Delivery:				
Sl No.	Date of Dispatch	DC No	Quantity	Material	Rate	Amount	
1	20-Apr	BLR01199	1200	M_Sand	550	837 ₹	
2	20-Apr	BLR01200	23700	M_Sand	550	16547 ₹	
3	20-Apr	BLR01201	23700	M_Sand	550	16547 ₹	
4	20-Apr	BLR01202	23700	M_Sand	550	16547 ₹	
5	20-Apr	BLR01203	23700	M_Sand	550	16547 ₹	
6	21-Apr	BLR01204	23700	M_Sand	550	16547 ₹	
Total			119700			83572 ₹	
						VAT	4596 ₹
Grand Total							88168 ₹
Amount in words: [Rupees eighty-eight thousand one hundred sixty-eight Only]							
We are Covered under COT, VAT is not charged							
Thanking You, For ARUN STONE CRUSHERS Authorized Signatory							

20 Remote- sync with Android Mobile

Future release. Needs to update the Document.

21 Remote monitoring with Internet web pages

Future release. Needs to update the Document.

22 SMS alerts and configuration

Future release. Needs to update the Document.

23 Additional helpful details

23.1 Useful Linux and Mysql Commands

23.1.1 How to change Mysql root Password?

mysqladmin -u root -p'oldpassword' password newpass

23.1.2 How to upgrade the software.

Asdf

23.1.3 Teamviewer and Remote-monitoring

24 SoftCrusher version and customer details

Developed By	SHASRaTech.com
Address	#33,12 th Main,12 th Cross, Raghavendra Block, Srinagar, Bangalore - 560050
Mobile Contact Number	+91 9731270001/9482225260
Website	SHASRaTech.com
Email	mailto:arun.ayachith@shasratech.com
Software Purchase Date	
Software Serial Number	
Software Version	Ver 1.2
Software Build Date	

25 Customer-Support

- ☐ On-site Customer support will be provided as required for 1-month only.
- ☐ Further on-site will be charged based on the conditions.
- ☐ Telephonic support will be provided free of cost on conditions.
- ☐ Any custom enhancements are welcome but will be charged on conditions.
- ☐ Defects in the software will be corrected free of cost on case to case basis.

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