BUSINESS REQUIREMENT DOCUMENT

10/10/2022

Version 3.0

MILK
PROCUREMENT

DOCUMENT REVISION

DATE	VERSION NUMBER	DOCUMENT CHANGES	APPROVED BY
07-08-2022	1.0	Initial draft	
08-09-2022	2.0	Revised draft	
10-10-2022	3.0	Final document for confirmation	

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PROJECT OBJECTIVE

To deliver the Android mobile app to each farmer and each collection center, where the user can get their required data without any difficulties, in order to avoid the miss communication inbetween the farmer and collection center. Thus, to achieve all farmers' data with one app, which should helps to increase productivity to the organization, and also user friendly to farmers.

PROJECT DESCRIPTION

Android mobile app need to be developed for the Milk Procurement Process to track the Procurement process from initial stages to Production stage. There are three stages of users need to be covered with this project are Farmers, Collection center, and Admin. The android app will be used by Farmers and Collection center Incharge. Then, the admin will handle with the web based portal. Thus, the three user modules should be integrated with each and the hierarchy should follow as same for approval process. Farmer's details, collection center details, Milk deposit and its payments details, Farmer request details, collection center request and asset details will be maintained in the application.

This document clearly elaborates the full in detail with the business and functions of the software application in details. Thus, follows as

FARMER

S.NO	MENU	WORKFLOW DESCRIPTION
1	**Farmers - Mobile application** **1.1 Installation Process**	- The app needs to be download from the Play store, the link will be provided to the respective collection center. - Register with the Mobile number, then the OTP need to be generated. - Then Login should be made with the **OTP**. - Once, the Login is made successfully. Password setup should be enabled. - The registered page should ask for the farmer or Collection center. - The welcome page needs to be enabled once the password is fixed. (The initial process of registration should be done by Admin). - Then, the Terms and Conditions need to be confirmed by the farmers. If not the shouldn't proceed for next process
	1.2 Profile	Profile for each farmer is needed to view their details and they can able to update it with limited options. In the very first after installing the app, Farmers need to add all details which are all mentioned below. It will be reviewed and approved by Admin. In case of any update in future, some fields can be able to update by farmers and it too needs an approval. - The details need to be update by farmers like photo, Mobile number, Alternate mobile number, farmer name, Bank details, PAN card, Aadhar number, Address Proof, Own Cow details and submit for collection center approval and it will be reviewed and submitted for admin approval. - Able to view own details like profile view and edit for approval admin.
	1.3 Milk Deposit Details	- Able to view the deposited milk to CC. last 30 days cut off details only can able to view, with the selection of Thursday to Wednesday. The time period selection needs to be in drop down for the selection of date period. - Farmer ID should be visible over the screen. - The fields should contain the serial no, shift, date, quantity in liters, FAT, SNF, per liter rate and total

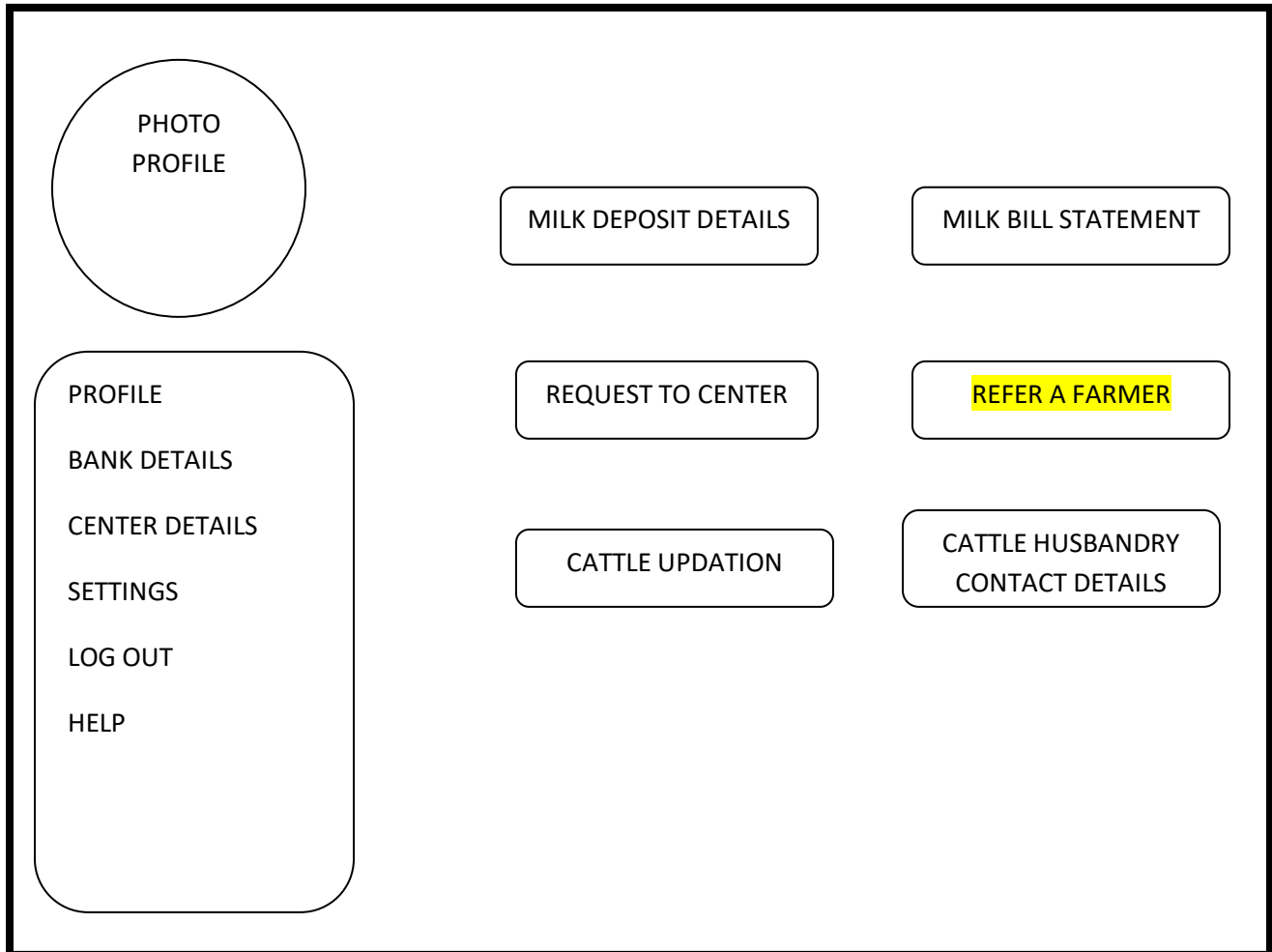|		amount. The overall total amount should be mentioned at the end.
	1.4 Milk Bill Statement	Able to view the 7 day Payment credited from CC to farmers in detail. In case of Loan or feed is sanctioned; in addition with payment, the deduction details also should be in detail like loan, insemination, medical support, feed. Every Thursday, the payment details should be enabled to show for farmers. Upto last 30 days bill can be able to view. - The details need to be in terms of time period, the set of date should be select from drop down and the details should shown according to selected date period. - Farmer ID should be visible over the screen. - The fields should contain serial no, date, quantity in liters, and amount for the liters. - Then the deductions details need to be shown at the end of details like Loan due, Doctor fee etc., - The net paid amount should be shown after the deduction amount is deducted. Total amount will be a round off amount. - Screenshot should be disabled for milk and payment bill.
	1.5 Request to Center **1.51 Feed Request** **1.52 Loan Request**	- Able to raise request to CC for Loan, Feed for their cattle. For **Feed**, there is 20kg bag, 50kg bag, and 70kg bag. - Farmers should able to select the required bag and can enter the quantity. - Here, the last order will be shown as last purchased quantity with the due amount. - If the due amount crosses the limits, the farmer shouldn't able to proceed for the request. - Then for **loan**, the famer can raise the value, depends upon the sanctioned amount, the value will be enabled to the farmers. - Farmer needs to select the loan type as Cattle loan, Short time loan, and Long time. - Each request should have the limit level. - The request will be send to collection center, if the farmer is eligible for the request, then it will be forwarded to the next level as admin. With the approval of admin, farmers can obtain the request as

		sanctioned.
		- Loan and feed sanctioned details need to be maintained in history.
		- For example, the loan history will be maintained as with the following header fields as serial no, Loan ID, Loan amount, Created date, Due amount, Balance, Status, settled date. It will be similar for feed request.
		- The condition for loan and feed request will be based on their eligibility.
	1.6 Refer a Farmer	- Farmers can do reference of neighbor farmers to CC. It can be Upto 500 (Name, Contact Name, and Contact Number).
		- Referenced farmers details should be maintained in history with these fields as serial no, name, farmer ID, phone number, status, joining date.
	1.7 Cattle updation	Number of cow details should be maintained properly and in case of new milking cow, it should be able to update through mobile app by farmers.
		- The cattle can be updated or added with the header fields as cattle type, cattle category, cattle code, age, buying date, action with delete and edit option as milking or non milking cattle.
	1.8 Cattle Husbandry Contact Details	- Contact details of area supervisor, officer, inseminator and doctor need to be shown to farmer for their reference.
		- Need to help farmers to make call by redirecting to dialing app
	1.9 Notification	- The admin can able send the push notification to the Farmers like Circular (New Price, Management Announcement Etc.); Center opening & Closing time change management; payment Slip (Each shift - Date, Shift-M/E, Qty in Ltr, Fat, SNF, Total).
	1.10 Farmer Feedback	- Farmers can able to raise complaint or can suggest any opinion regarding the process.
		- It will be suggested to admin and it needs to be rectified in case of complaint.
		- It should be maintained and followed through ticket number. Once the issue has been completed, the complaint needs to be closed.
		- The common questions will be maintained as FAQ – Frequently Asked Question. So it will be viewable for

		all the farmers in future.
		- And so, the timeline can be fixed for any questions. So depends upon the timeline the FAQ or complaint or feedback will be viewable.
	1.11 Farmer Education	- Admin can add circular here, so that farmers can able to know the order or info through the app.
		- It can be KNOWLEDGE WISE, SUGGESTION, GUIDENCE, that should be added by several users like doctor, admin staffs those who are all having the permissions.
		- Based on timeline the circular should be visible.
		- While creating the content the timeline should be fixed. Depends upon the timeline, the content will be visible to farmers.
	1.12 Farmer (sell/ buy)	- Farmer can able to sell and buy through app.
		- Product name and quantity with price details should be able to feed by farmers.
		- It should be enable and viewable to the admin. So they can make the advertise to other farmers.

MOBILE APP - FARMER

PHOTO
PROFILE

PROFILE

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MILK DEPOSIT DETAILS

MILK BILL STATEMENT

REQUEST TO CENTER

REFER A FARMER

CATTLE UPDATION

CATTLE HUSBANDRY
CONTACT DETAILS

MILK DEPOSIT DETAILS

FARMER ID

TIME PERIOD 11-08-2022 TO 17-08-2022

S.NO	SHIFT	DATE	QTY LTR	FAT	SNF	PER LTR RATE	AMOUNT
01	MOR	24-08-2022	10	4.1	8.2		
	TOTAL						

BILL PAYMENT STATEMENT

FARMER ID   TIME PERIOD & MONTH   11-08-2022 TO 17-08-2022

S.NO	DATE	QTY LTRs	AMOUNT
01	11-08-22		
02	12-08-22		
	DEDUCTION LOAN		
	DOCTOR FEE		
	NET PAID		
	TOTAL		

REQUEST TO CENTER

LOAN REQUEST   FEED REQUEST

LOAN REQUEST

LOAN HISTORY

DATE	CALENDAR
LOAN AMOUNT	ENTER AMOUNT
TYPE	LONG/SHORT

SUBMIT REQUEST

FEED REQUEST

FEED HISTORY

DATE	CALENDAR
FEED BAG KG	20/50/70
QUANTITY	ENTER QUANTITY
LAST PURCHASED QUANTITY	20 KG 5 NOS
DUE AMOUNT	**NIL**

SUBMIT REQUEST

LOAN HISTORY

S.NO	LOAN ID	LOAN AMOUNT	CREDITED DATE	DUE	BALANCE	STATUS	SETTLED DATE
01		5000	20-01-2022	NIL	NIL	SETTLED	
02		5000	01-05-2022	1000	300	IN PROCESS	

REFER A FARMER

NAME

ADDRESS

CONTACT NUMBER

REFERED FARMER HISTORY

S.NO	NAME	FARMER ID	PHONE NUMBER	STATUS	JOINING DATE
01				ACCEPTED	
02				REJECTED	

CATTLE UPDATION

CATTLE TYPE: BUFFALO/COW   CATTLE CATEGORY   JERSY/ RED POL

TOTAL NUMBER OF COWS   : 10

ACTIVE MILKING COWS   : 6

NON MILKING COWS   : 4

ADD/UPDATE COW

S.NO	CATTLE TYPE	CATTLE CATEGORY	CATTLE CODE	AGE	MILK OR NM	BUYING DATE	ACTION
01	BUFFALO		00012	8 YEARS			EDIT/ DELETE

SUBMIT

CATTLE HUSBANDARY CONTACT DETAILS

MEDICAL SUPPORT

NAME   : DOCTOR 1

CONTACT NUMBER: 9876543210

INSEMINATION

NAME   : NAME 1

CONTACT NUMBER: 9873456210

OFFICER

NAME   : OFFICER 1

CONTACT NUMBER: 9876543210

SUPERVISOR

NAME   : NAME 1

CONTACT NUMBER: 9873456210

PROFILE

UPDATE INFO

PHOTO

FARMER ID   :   FARMER NAME :

PHONE NUMBER :   MAIL ID   :

ADDRESS   :   JOINING DATE :

PHOTO UPLOAD   :   CHOOSE FILE   CATTLE COUNT :

ALTERNATE PH NO:

UPLOAD DOCUMENTS: CHOOSE FILE

AADHAR NUMBER :   PAN NUMBER :

UPDATE WILL BE SENT TO ADMIN APPROVAL

BANK DETAILS

UPDATE INFO

BANK ACCOUNT NUMBER:

ACCOUNT HOLDER NAME:

BANK NAME:

BRANCH:

IFSC CODE:

UPDATE WILL BE SENT TO ADMIN APPROVAL

COLLECTION CENTER DETAILS

CENTER CODE: CENTER NAME: INCHARGE NAME:

CENTER MOBILE NUMBER: SUPERVISOR:

COLLECTION CENTER

S.NO	MENU	WORKFLOW DESCRIPTION
2	**Collection Center Mobile Application** **2.1 Installation Process**	- The app needs to be download from the Play store, the link will be provided to the respective collection center. - Register with the Mobile number, then the OTP need to be generated. - Then Login should be made with the OTP. - Once, the Login is made successfully. Password setup should be enabled. - The registered page should ask for the farmer or Collection center. - The welcome page needs to be enabled once the password is fixed. (The initial process of registration should be done by Admin). - Then, the Terms and Conditions need to be confirmed by the center Incharge.
	2.2 Profile	- Once the app is installed; at the first time, profile details need to be add by new center Incharge. - The details need to be update by collection center like photo, Mobile number, Alternate mobile number, Incharge name, Bank details, PAN card, Aadhar number, Address Proof, Own Cow details. - Profile view for the collection center is needed, which shows the details of above added info. - In case of any update in CC, Incharge can update it and it should be sent to admin approval. - Total farmer and cow count details (should be integrated with all farmers, which are all mapped under the center). - If there is own cattle with the center Incharge person, then the details should be shown and the farmer id should be integrated; Center ID, Center Name. Own asset details.
	2.3 Farmer Details **2.31 Farmer Profile**	The details of farmers need to be shown as list. Incharge can able to search the particular farmer and find out. - The list of farmers should have the header fields as serial no, Farmer ID, Farmer name, Mobile number, Farmer area, Farmer created date and action with view, edit, active or inactive options.

		- To view the particular farmer profile, Incharge should able to view the farmer profile photo, Mobile number, Alternate mobile number, farmer name, Bank details, PAN card, Aadhar number, Address Proof, Cow details, joining date with number of years. - Number of milking cows need to be maintained for each farmers. Each cattle is needed to be registered in the database with the cow code.
	2.4 Milk Details	Once the shift is over, whole data will be stored in the database. Meanwhile the quantity and quality should be notified to farmers' mobile app. Thus Last 30 days summary can able to view with four weeks time period. - The summary can be able view with the filtration options of shift as morning/evening, farmer selection as one or all, from and to date. - The summary shown as per the selection of date range. - The summary header fields are serial no, shift, date, farmer id, quantity in liters, FAT, SNF and action.
	2.5 Farmer Payment Details	- The payment for the formers will be paid 7 day once and it need to be updated in the database from SAP, need to be show in mobile app in detail and notified to farmers. This will be through SAP Integration. This is also for last 30 days payment details with four weeks time period. This is also considerable for TS Recovery. - The payment details can be viewed with filtration options as farmer selection as one or all, status as paid or not paid, from and to date. - Depends upon the selection of filtration the list of payment details should be shown with the header fields are as serial no, farmer ID, date, quantity in liters, Amount, status, Action. - Deduction details like Loan recovery, Insemination, Medical support, feed supplied TS recovery last month vs. present month should be shown in detail.
	2.6 Farmer Request Details	The request raised from farmer will be reflected to the respective collection center. - Loan request, Feed request from farmer mobile app need to be recommend by collection center to admin. Status of feed and loan request should be maintain in history. - The eligible value will be there for Loan and feed. For

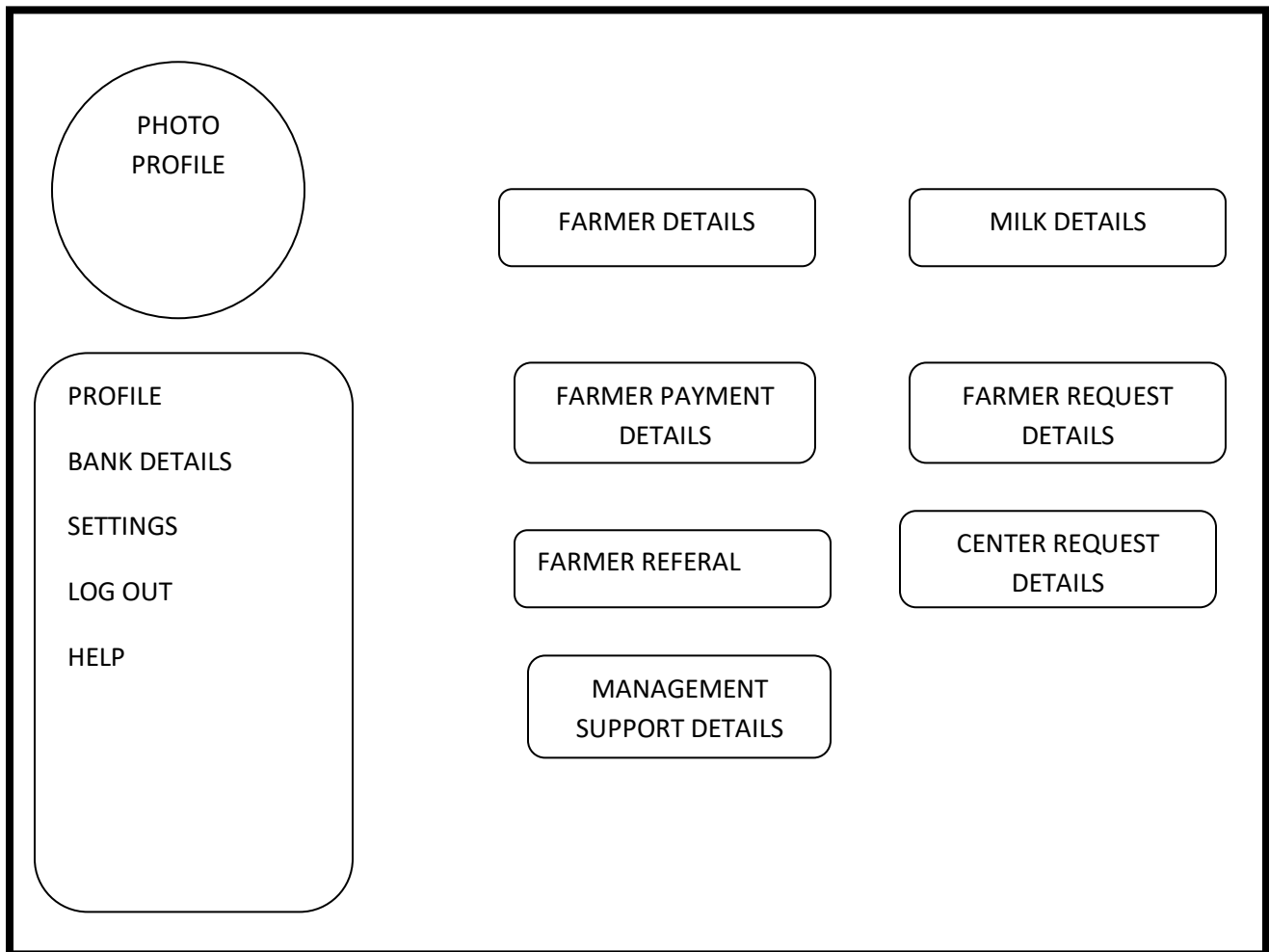|		
		Feed, there is 20kg bag, 50kg bag, and 70kg bag. Then for loan the famer can raise the value, depends upon the admin sanctioned amount the value will be enabled to the farmers. - Each request will be based on farmer's eligibility criteria. - In case of rejecting the request, the remarks reason should be entered and the reason should be pop up to farmer and admin for reference.
	2.7 Farmer Referral	The referral from farmer should be intimated to center Incharge. - New farmer request from farmer mobile app need to be assigned to CC for the verification purpose. (Name and phone number, address) the reference should be between 1 to 500 farmers. - For the reference of new farmers, the acceptance should be made from the center Incharge, Admin, and supervisor. Then, the notification also should be send to all users mapped and for supervisor sms should be sent. - Once the acceptance is done with center Incharge, details will be collected and it will be submitted to admin for the farmer creation. - To view the referrals, the filtration option is required as farmer id – one or multiple, from and to date, status – completed, In progress, accepted, rejected. - As per the selection, the list should be shown the details with the header options of serial no, Farmer ID, Date, Referred farmer details, status, and action icon to view and edit.
	2.8 Milk Capturing	Center can able to capture the milk deposited by the farmers. The Tablet will be connected with the analyzer and weighing machine. So, that the reading should be able to capture from the machines. - The page should show the farmer ID as empty which should be entered by the center Incharge. Then after machine captured the reading with its own device, the mobile application should be ready to capture the Milk Liter, Milk Fat and SNF value. - So, keep on the screen should refresh, once the details have been captured successfully. - Each farmer details need to be stored in either offline or online depends upon the network connectivity. - After every online updation, the details should be

		notified to the farmer's app.
		- The milk will be tested and weighted by the third party machine like echo, Everest. Every testing of quality and quantity should be able captured through **integration** with the third party machines.
		- Here, the quantity and quality should be captured from machines not from applications. So, the values should be able to capture from machine through port cable. So, the app should be designed in such a way.
	2.9 Center Request Details	Center can be able to request the Center needs from admin.
		- The request details need to be captured as SS CAN & ASSET request details, Machine service request details, farmers' canvas support request to supervisor, consumable request, Loan amount recommend and feed recommend.
		- The request can be listed out using the filtrations are selection of request, from and to date, status.
		- After selection of filtration options, the requested details should be needed to list out with header options are serial no, date, Request type – in case of loan or feed; the Farmer ID will be a header or else for SS Can and Machine services the center ID will be a header, UOM, Status, Action with view and edit options. On other hand, for loan request one of the header options is amount and for feed request it will be quantity. It should act like dynamic process.
	2.10 Management Support Details	The details defines the collection center activities and properties as follows,
		- **Shift wise Shortage** must show the details of milk dispatched from the collection center and deposited into chilling center with shortage in compare with acknowledged milk obtained from the farmers.
		• The details can be viewed by using the filtration options of from and to date, shift.
		• The list of shortage will be shown with the header options of serial no, shift, date, total liters, Shortage liters, acknowledged liters from chilling center.
		- **Monthly incentive** should be shown for every month, after credited to Incharge. The headers are serial no, center id, month and year, total liters, incentive amount, deduction type, deduction amount and net paid amount.

| | | • The deduction types are TS recovery, others as asset damage, if any farmer doesn't paid their due amount it will be deducted from the collection center incentive as feed or loan recovery.
- **Asset details** should shows the asset code, asset name, asset serial number and asset effective date.
- **Asset transfer info** is the part, which shows the transferred asset details and so the request will be sent from admin, then the Incharge should view the details and should able to enter the supervisor details and forward it again to admin.
- **Center Timing** should show the center opening and closing time with date and shift.
- **Contact details** of area supervisor, officer, inseminator and doctor need to be shown to collection center for their reference. |
| | **2.11 Notification** | - The admin can able send the notification to the center like Circular (New Price, Management Announcement Etc..); Center opening & Closing time change management; Collection Slip (Each shift - Date, Shift-M/E, Qty in Ltr, Fat, SNF, Total); TS Recovery - M/E shift; Milk rejections with number of cans, Liters, spoilage, adulteration reason; asset transfer details.
- Able to view their monthly incentive details |

MOBILE APP FOR COLLECTION CENTER

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DETAILS

FARMER REFERAL

CENTER REQUEST
DETAILS

MANAGEMENT
SUPPORT DETAILS

FARMER DETAILS

SEARCH

S.NO	FARMER ID	FARMER NAME	MOBILE NUMBER	AREA	CREATED DATE	ACTION
01	001	XYZ	9876543210		10/08/2022	VIEW

PROFILE

PHOTO

FARMER ID   :   FARMER NAME :

PHONE NUMBER :   MAIL ID   :

ADDRESS   :   JOINING DATE :

PHOTO UPLOAD   :   CATTLE COUNT :

UPLOAD DOCUMENTS:

AADHAR NUMBER :   PAN NUMBER :

BANK DETAILS

BANK ACCOUNT NUMBER:

ACCOUNT HOLDER NAME:

BANK NAME:

BRANCH:

IFSC CODE:

FARMER PAYMENT DETAILS

FROM DATE [CALENDAR] TO DATE [CALENDAR] FARMER [1/SELECT ALL]

STATUS [PAID/NOT PAID]

[FIND]

S.NO	FARMER ID	DATE	QTY LTRs	AMOUNT	STATUS	ACTION
001	0001				PAID	VIEW

FARMER REQUEST DETAILS

REQUEST TYPE [LOAN REQUEST/ FEED REQUEST] FARMER [1/ SELECT ALL] FROM DATE [CALENDAR]

STATUS [APPROVED /PENDING/ REJECTED] TO DATE [CALENDAR]

S.NO	FARMER ID	DATE	REQUEST TYPE	QUANTITY/ AMOUNT	BAG	STATUS	ACTION
001	001		FEED REQUEST	8	20 KG	PENDING	APPROVE/ REJECT,

REJECT REASON

[SUBMIT] [CANCEL]

MILK DETAILS

SHIFT | MOR/EVE   FARMER | 1/SELECT ALL   FROM DATE | CALENDAR   TO DATE | CALENDAR

FIND

S.NO	SHIFT	DATE	FARMER ID	NAME	QTY LTRs	FAT	SNF	ACTION

FARMER REFERAL

FARMER ID | 1/SELECT ALL   FROM DATE | CALENDAR   TO DATE | CALENDAR   STATUS | PENDING/ ACCEPETED/ REJECTED

FIND

S.NO	FARMER ID	DATE	REFERRAL FARMER DETAILS	STATUS	ACTION
01	001		MANI, AYZ AREA, 9876543210	PENDING	APPROVE/ REJECT

CENTER REQUEST DETAILS

| REQUEST | ASSET REQUEST/ COMPONENT REQUEST/ FARMER'S CANVAS SUPPORT | FROM DATE | CALENDAR | TO DATE | CALENDAR |

STATUS APPROVE/PENDING/REJECTED

FIND

S.NO	CENETER ID	DATE	REQUEST TYPE	ASSET NAME	QUANTITY	UOM	STATUS	ACTION
01	546		MACHINE REQUEST	ANALYZER	1	NOs	APPROVED	VIEW

RAISE REQUEST

| DATE | CALENDAR | REQUEST TYPE | ASSET REQUEST COMPONENT REQUEST |

S.NO	REQUEST NAME	QUANTITY	UOM	REMARKS
1	SS CAN	5	NOS	
2	ANALYZER	1	NOS	
3	FILTER	2	NOS	

☐ TERMS & CONDITIONS

SUBMIT

MANAGEMENT SUPPORT

SHIFT WISE SHORTAGE	MONTHLY INCENTIVE	ASSET DETAILS
ASSET TRANSFER INFO	CENTER TIMING	CATTLE HUSBANDRY CONTACT DETAILS

SHIFT WISE SHOTAGE

SHIFT [MOR/EVE]   FROM DATE [CALENDAR]   TO DATE [CALENDAR]   [FIND]

S.NO	SHIFT	DATE	TOTAL QTY LTRs	SHORTAGE QTY	ACK QTY LTRs
01	MOR		10000	500	9500

MONTHLY INCENTIVE

S.NO	CENTER ID	MONTH	TOTAL QTY LTRs	INCENTIVE AMOUNT	DEDUCTION TYPE	DEDUCTON AMOUNT	NET PAID
01	546	MAR -22	10000	10000	TS RECOVERY	500	9500
02	546	APR-22	10000	10000			

ASSET DETAILS

ASSET CODE

ASSET NAME

ASSET SERIAL NUMBER

EFFECTIVE DATE

ASSET CODE

ASSET NAME

ASSET SERIAL NUMBER

EFFECTIVE DATE

ASSET TRANSFER DETAILS

DATE

ASSET NAME

SERIAL NUMBER

QUANTITY

SUPERVISOR NAME

SUBMIT TO ADMIN

CENTER TIMING

DATE: 07-09-2022   SHIFT: MORNING

OPENING TIME – 07:05 AM

CLOSING TIME   – 08:15 AM

DATE: 07-09-2022   SHIFT: EVENING

OPENING TIME – 05:04 PM

CLOSING TIME   – 06:10 PM

CATTLE HUSBANDARY CONTACT DETAILS

MEDICAL SUPPORT

NAME   : DOCTOR 1

CONTACT NUMBER: 9876543210

INSEMINATION

NAME   : NAME 1

CONTACT NUMBER: 9873456210

OFFICER

NAME   : OFFICER 1

CONTACT NUMBER: 9876543210

SUPERVISOR

NAME   : NAME 1

CONTACT NUMBER: 9873456210

PROFILE

UPDATE INFO

PHOTO

CENTER ID   :   CENTER NAME :

PHONE NUMBER :   MAIL ID   :

ADDRESS   :   JOINING DATE :

PHOTO UPLOAD   :   CATTLE COUNT :

ALTERNATE PH NO:

UPLOAD DOCUMENTS:

AADHAR NUMBER :   PAN NUMBER :

UPDATE WILL BE SENT TO ADMIN APPROVAL

BANK DETAILS

UPDATE INFO

BANK ACCOUNT NUMBER:

ACCOUNT HOLDER NAME:

BANK NAME:

BRANCH:

IFSC CODE:

UPDATE WILL BE SENT TO ADMIN APPROVAL

S NO	MENU	WORKFLOW DESCRIPTION
3	**Admin User** **Web based Application** **3.1 Login Process**	The admin user can able to use the application through web based portal. In chrome browser, the URL link should be able to open and it can be logged in by user name and password. - Each admin should have individual login to access the portal. - If user forgets their user name or password, must have the way to know their username through registered mobile number and too reset the password in similar way.
	3.1 Collection Center details	The details of all collection center should be able to view and can add new collection center details by admin user and can able to search the particular collection center and find out. - The list of collection center should have the header fields as serial no, center ID, Center name, Mobile number, center address, center created date and action with view, edit, active or inactive options. - To view the particular center profile, admin should able to view the collection center profile photo, Mobile number, Alternate mobile number, center name, Bank details, PAN card, Aadhar number, Address Proof, Cow details for particular Incharge own cow and total farmers cow count within the collection center, joining date with number of years. - Number of milking cows need to be maintained for each farmers. Each cattle is needed to be registered in the database with the cow code. - To create new collection center, the following details need to be filled up as application form are profile photo, Mobile number, Alternate mobile number, center name, Bank details, PAN card, Aadhar number, Address Proof, Cow details, created date. Here, center ID will be an automated one as sequence form. - The list of collection center can be able to download as PDF, Excel, CSV formats and can copy it, print it.
	3.3 Farmer Details	The details of all farmers should be able to view and can add new farmer details by admin user and can able to search the particular farmer and find out. - The list of farmers should have the header fields as serial no, Center ID, Farmer ID, Farmer name, Mobile

		number, Farmer area, Farmer created date and action with view, edit, active or inactive options.
		- The filtration will be depends upon the collection center selection.
		- To view the particular farmer profile, Admin should able to view the farmer profile photo, Mobile number, Alternate mobile number, farmer name, Bank details, PAN card, Aadhar number, Address Proof, Cow details, collection center id, center name, joining date with number of years.
		- Number of milking cows need to be maintained for each farmers. Each cattle is needed to be registered in the database with the cow code.
		- To create new farmer, the following details need to be filled up as application form are profile photo, Mobile number, Alternate mobile number, farmer name, Bank details, PAN card, Aadhar number, Address Proof, Cow details, created date, farmer's collection center mapping. Here, farmer ID will be an automated one as sequence form.
		- The list of farmers can be able to download as PDF, Excel, CSV formats and can copy it, print it.
	3.4 Milk Details	Once the shift is over, whole data will be stored in the database. Meanwhile the quantity and quality should be notified to farmers' mobile app. Thus Last 30 days summary can able to view with four weeks time period.
		- The summary can be able to view with the filtration options of shift as morning/evening, collection center, and farmer selection as one or all from the selected collection center, from and to date.
		- The summary should show as per the selection of date range.
		- The summary header fields are serial no, shift, date, Center ID, Farmer id, quantity in liters, FAT, SNF and action.
		- The list of milk details can be able to download as PDF, Excel, CSV formats and can copy it, print it.
	3.5 Farmer Payment Details	- The payment for the farmers will be paid 7 day once or 10 days once and it need to be updated in the database from SAP, need to be show in mobile app in detail and notified to farmers. This will be through SAP Integration. This is also for last 30 days payment details with four weeks time period. This is also

		considerable for TS Recovery.
		- The payment details can be viewed with filtration options as collection center selection, farmer selection as one or all from the selected collection center, status as paid or not paid, from and to date.
		- Depends upon the selection of filtration the list of payment details should be shown with the header fields are as serial no, center ID, farmer ID, time period date, quantity in liters, Amount, status, Action with view option.
		- To view the detailed summary of the selected week, the date wise summaries need to be shown.
		- Deduction details like Loan recovery, Insemination, Medical support, feed supplied TS recovery last month vs. present month should be shown in detail in the summary.
		- The list of farmer payment details can be able to download as PDF, Excel, CSV formats and can copy it, print it.
	3.6 Farmer Request Details	The request raised from farmer will be reflected to the respective collection center; after approval from collection center, the request will be forwarded to admin approval. - Loan request, Feed request from farmer mobile app need to be recommend by collection center and then to admin. - There is eligible value for Loan and feed. It will be depends upon the farmers eligible criteria. - For **Feed**, there is 20kg bag, 50kg bag, and 70kg bag. Based on the farmer's cow quantity, due balance amount for existing feed request sanctioned, the new feed request needs to be approved. - Then for loan the famer can raise the value, depends upon the admin sanctioned amount the value will be enabled to the farmers. So, while approving the loan sanction, admin need to verify the existing loan history and balance. - Each request will be based on farmer's eligibility criteria. - Status of feed and loan request should be maintain in history. - To find the request - request type, collection center need to be selected; based on the selection the farmer details should be shown. The list of request

		should be with the following headers as serial no, center ID, Farmer ID, amount and loan type for loan, bag type and quantity for feed, date, and to view the particular request in detail, it can be approved or rejected. - Admin can able to approve the request with above checking conditions. - In case of rejecting the request, the remarks reason should be entered and the reason should be pop up to farmer and collection center for reference.
	3.7 Farmer Referral	The referral from farmer should be intimated to center Incharge and to forward the request to admin approval. - New farmer request from farmer mobile app need to be assigned to CC for the verification purpose. (Name and phone number, address) the reference should be between 1 to 500 farmers. - For the reference of new farmers, the acceptance should be made from the center Incharge, Admin, and supervisor. Then, the notification also should be send to all users mapped and for supervisor SMS should be sent. - Once the acceptance is done with center Incharge, details will be collected and it will be submitted to admin for the farmer creation. - To view the referrals, the filtration option is required as farmer id – one or multiple, from and to date, status – completed, Inprogress, accepted, rejected. - As per the selection, the list should be shown the details with the header options of serial no, Farmer ID, Date, Referred farmer details, status, and action icon to view and edit. - If the new farmer is need to be created from the reference, the farmer creation option is needed, which will redirect into Farmer creation page. The details should be automated format from reference data. Through that, the new farmer can able to create. - To create new farmer details, the following details is needed as photo, Mobile number, Alternate mobile number, farmer name, Bank details, PAN card, Aadhar number, Address Proof, Own Cow details, collection center details. Here Farmer ID, famer name, mobile number, referred farmer details will be

		a default; if it is a referral farmer. Or else all the details need to be filled up as new except farmer ID. However, the Farmer ID will be a default and automated depends upon the sequence.
	3.8 Center Request Details	Center can able to request the material or assets from admin. The process is like indent requesting. - The request details need to be captured as ASSET request details, Machine service request details, farmers' canvas support request to supervisor, consumable request. - The request can be listed out using the filtrations are selection of request, from and to date, status. - After selection of filtration options, the requested details should be needed to list out with header options are serial no, date, Request type – for SS Can and Machine services the center ID will be a header, UOM, Status, view option and approve option. - While approving the request, the asset details like asset code, serial number need to be captured; for machine service request the service details, service person details need to be captured; for consumables also the quantity and consumable name need to be captured.

	3.9 Management Section	The Management section defines the collection centers activity and its properties as follows,
		- **Shift wise Shortage** must show the details of milk dispatched from the collection center and deposited into chilling center with shortage in compare with acknowledged milk obtained from the farmers.
		   • The details can be viewed by using the filtration options of from and to date, shift, and collection center.
		   • The list of shortage will be shown with the header options of serial no, shift, date, Collection center ID, total liters, Shortage liters, acknowledged liters from chilling center.
		- **Monthly incentive** should be shown for every month, after credited to Incharge. The filtration options should be center ID, month and year. The headers are serial no, center id, month and year, total liters, incentive amount, deduction type, deduction amount and net paid amount.

		• The deduction types are TS recovery, others as asset damage, if any farmer doesn't pay their due amount it will be deducted from the collection center incentive as feed or loan recovery. - **Asset details** should shows the asset code, asset name, asset serial number and asset effective date. To get the particular center asset details, the center filtration should be made. - **Asset transfer info** is the part, should shows the transferred asset details and so the request should be sent from admin, the info should contain the asset code, asset serial number, quantity and respective supervisor name; then the Incharge should view the details and should able to enter the supervisor details and forward it again to admin. Once the admin received the asset from center, the stock should be with admin control. So, after that admin can transfer it into another center by using the following details asset code, asset name, asset serial number details, supervisor. - **Center Timing** should show the center opening and closing time with date and shift. To get the particular center timing, using center filtration option admin can get the details. - **Contact details** of area supervisor, officer, inseminator and doctor need to be shown to collection center for their reference. It will be according to area
	3.10 Notification	- The admin can able send the notification to the center and farmers like Circular (New Price, Management Announcement Etc..); Center opening & Closing time change management; Collection Slip (Each shift - Date, Shift-M/E, Qty in Ltr, Fat, SNF, Total); TS Recovery - M/E shift; Milk rejections with number of cans, Liters, spoilage, adulteration reason; asset transfer details.
	3.11 Farmer Feedback	- Farmers will raise complaint or can suggest any opinion regarding the process to admin. - It needs to be rectified in case of complaint and can able to reply for the complaint comments.

		- It should be maintained and followed through ticket number. once the issue has been completed, the complaint need to be closed - The common questions will be maintained as FAQ – Frequently Asked Question. So it will be viewable for all the farmers in future. - And so, the timeline can be fixed for any questions. So depends upon the timeline the FAQ or complaint or feedback will be viewable.
	3.12 Announcement	- Admin can add the tutorial process, so that farmers can learn the new article through the app. - KNOWLEDGE WISE, SUGGESTION, GUIDENCE that should be added by several users like doctor, admin staffs those who are all having the permissions. - Based on timeline the circular should be visible. - While creating the content the timeline should be fixed. Depends upon the timeline, the content will be visible to farmers.
	3.13 Farmer Sell and Buy	- Farmer can able to sell and buy through app. - Product name and quantity with price details should be able to feed by farmers. It should be enable and viewable to the admin. So they can make advertise to other farmers. - The buying and selling history should be maintained regularly. The farmer ID, product (input may be any product; not from masters), quantity, and price should be captured.

HOME PAGE

FARMER DETAILS	MILK DETAILS	FARMER PAYMENT DETAILS	FARMER REQUEST DETAILS
COLLECTION CENTER DETAILS	FARMER REFERAL	CENTER REQUEST DETAILS	MANAGEMENT SUPPORT DETAILS
FARMER FEEDBACK	EDUCATION/ ANNOUNCEMENT	FARMER BUY/SELL	PROFILE / SETTINGS

FARMER DETAILS

PDF	EXCEL	COPY	PRINT

COLLECTION CENTER SELECT ALL / 1   FARMER SELECT ALL/ 1   **FIND**   SEARCH

S.NO	FARMER ID	MOBILE NUMBER	FARMER NAME	FARMER AREA	FARMER CREATED DATE	ACTION
01	001	9876543210	XYZ	ABC	15-08-2022	VIEW / EDIT / ACTIVE

PROFILE

PHOTO

FARMER ID	FARMER NAME	MOBILE NUMBER	FARMER ADDRESS

BANK DETAILS	AADHAR INFO	CATTLE DETAILS	MILKING COW	JOINING DATE

CREATE NEW FARMER

FARMER ID   002   FARMER NAME   [   ]

MOBILE NUMBER   [   ]   ALTERNATIVE MOBILE NUMBER   [   ]

ADDRESS   [   ]   PHOTO UPLOAD   [   ]

MAIL ID   [   ]   SELECT CENTER   [   ]

AADHAR NUMBER   [   ]   PAN NUMBER   [   ]

UPLOAD DOC   UPLOAD DOC

CATTLE TYPE   [   ]   CATTLE CATEGORY   [   ]

MILKING COW   [   ]   NON MILKING   [   ]   CATTLE COUNT   [   ]

BANK DETAILS

BANK ACCOUNT NUMBER   [   ]

BANK HOLDER NAME   [   ]

BANK NAME   [   ]

BRANCH   [   ]

IFSC CODE

SUBMIT

PDF | EXCEL | COPY | PRINT

MILK DETAILS

SELECT SHIFT MOR/EVE   FARMER SELECT ALL/ 1   FROM DATE CALENDAR   TO DATE CALENDAR

SELECT CENTER SELECT ALL/1   FIND

S.NO	SHIFT	DATE	CENTER ID	FARMER ID	FARMER NAME	QUANTITY LTRs	FAT	SNF	ACTION

PDF | EXCEL | COPY | PRINT

FARMER PAYMENT DETAILS

FROM DATE CALENDAR   TO DATE CALENDAR   FARMER SELECT ALL/ 1   STATUS PAID / PENDING

SELECT CENTER SELECT ALL/1   FIND

S.NO	FARMER ID	CENTER ID	PAYMENT DATE	QUANTITY LTRs	AMOUNT	STATUS	ACTION
001							VIEW

VIEW

S.NO	DATE	QTY LTRs	AMOUNT
01	11-08-22		
02	12-08-22		
	DEDUCTION		
	LOAN		
	DOCTOR FEE		
	NET PAID		
	TOTAL		

PDF | EXCEL | COPY | PRINT

FARMER REQUEST DETAILS

REQUEST TYPE | LOAN REQUEST/ FEED REQUEST | FROM DATE | CALENDAR | TO DATE | CALENDAR | STATUS | APPROVED / CENTER APPROVED/ REJECTED | FIND

CENTER | SELECT ALL/ 1 | FARMER | SELECT ALL/1

S.NO	CENTER	FARMER ID	DATE	REQUEST TYPE	QUANTITY/ AMOUNT	UOM	STATUS	ACTION
001								VIEW/EDIT

CENTER ID   FARMER ID   DATE

REQUEST TYPE   QTY/AMOUNT   UOM

CENTER INCHARGE APPROVED   DUE BALANCE

DOCUMENT   VIEW

APPROVE

COLLECTION CENTER DETAILS

| PDF | EXCEL | COPY | PRINT |

SELECT COLLECTION CENTER   SELECT ALL /1   FIND   SEARCH

S.NO	CENETR ID	MOBILE NUMBER	CENTER NAME	INCHARGE NAME	CENTER CREATED DATE	ACTION
01	001	9876543210	XYZ	ABC	15-08-2022	VIEW EDIT DELETE

PROFILE

PHOTO

CENTER ID   CENTER NAME   MOBILE NUMBER   CENTER ADDRESS

BANK DETAILS   AADHAR INFO   CATTLE DETAILS   INCHARGE NAME   JOINING DATE

FARMER OWN CENTER

CREATE NEW CENTER

CENTER ID	0123

CENTER NAME

MOBILE NUMBER

ALTERNATIVE MOBILE NUMBER

ADDRESS

PHOTO UPLOAD

MAIL ID

SELECT CENTER

AADHAR NUMBER

PAN NUMBER

UPLOAD DOC

UPLOAD DOC

FARMER OWN CENTER

FARMER ID

CATTLE DETAILS

BANK DETAILS

BANK ACCOUNT NUMBER

BANK HOLDER NAME

BANK NAME

BRANCH

IFSC CODE

SUBMIT

CENTER REQUEST DETAILS

| PDF | EXCEL | COPY | PRINT |

SELECT REQUEST
MACHINE SERVICE /
SS CAN & ASSET/
CANVAS SUPPORT/
CONSUMABLE

FROM DATE [CALENDAR] TO DATE [CALENDAR] STATUS
APPROVED /
PENDING/
REJECTED
FIND

SELECT CENTER [SELECT ALL / 1]

S.NO	CENTER ID	DATE	REQUEST TYPE	NAME	QUANTITY	UOM	STATUS	ACTION
001								VIEW/EDIT

VIEW

CENTER ID   DATE

REQUEST TYPE   REQUEST NAME

ASSET CODE   ASSET NAME, SERIAL NO

QUANTITY   UOM

ISSUE REQUEST

CENTER ID   DATE

REQUEST TYPE   REQUEST NAME

CANVAS REASON   SUPERVISOR

ISSUE REQUEST

| PDF | EXCEL | COPY | PRINT |

FARMER REFERAL

FARMER ID ALL/1   FROM DATE CALENDAR   TO DATE CALENDAR   STATUS PENDING/ INPROCESS/ ACCEPTED/ REJECTED   **FIND**

CENTER ID SELECT ALL/1

S.NO	FARMER ID	DATE	REFERED FARMER DETAILS	STATUS	ACTION
001					VIEW/EDIT

MANAGEMENT SUPPORT

| SHIFT WISE SHORTAGE |

| MONTHLY INCENTIVE |

| ASSET DETAILS |

| ASSET TRANSFER INFO |

| CENTER OPENING & CLOSING TIME |

| CONTACT DETAILS |

| PDF | EXCEL | COPY | PRINT |

SHIFT WISE SHORTAGE

SHIFT | MOR/EVE | FROM DATE | CALENDAR | TO DATE | CALENDAR | CENTER | SELECT ALL/1

FIND

S.NO	SHIFT	DATE	CENTER ID	TOTAL LITER	SHORTAGE LITER	ACK LITER FROM CC

| PDF | EXCEL | COPY | PRINT |

MONTHLY INCENTIVE

CENTER ID | SELECT ALL /1 | MONTH & YEAR | CALENDAR | DEDUCTION TYPE | TS RECOVERY/ FARMER FEED/ FARMER LOAN/ CENTER LOAN | FIND

S.NO	CENTER ID	MONTH & YEAR	TOTAL LITER	INCENTIVE AMOUNT	DEDUCTION TYPE	DEDUCTION AMOUNT	NET PAID

ASSET DETAILS

SELECT CENTER | SELECT ALL/ 1

PDF	EXCEL	COPY	PRINT

S. NO	CENTER ID	CENTER NAME	ASSET CODE	ASSET NAME	QTY	ASSET SERIAL NUMBER	ASSET EFFECTIVE DATE

ASSET TRANSFER

CREATE TRANSFER

ASSIGN TRANSFERRED ASSET

CENTER ID

ASSET CODE

ASSET NAME

ASSET SERIAL NUMBER

QUANTITY

SUPERVISOR NAME

SUBMIT

CENTER ID

ASSET CODE

ASSET NAME

ASSET SERIAL NUMBER

QUANTITY

SUPERVISOR NAME

SUBMIT

* DATE SHOULD BE AUTO CAPTURED; ACKNOWLEDGEMENT SHOULD BE MADE BY ADMIN

CENTER TIMING

PDF	EXCEL	COPY	PRINT

SHIFT | MOR / EVE | FROM DATE | CALENDAR | TO DATE | CALENDAR | SELECT CENTER | SELECT ALL / 1

FIND

S. NO	DATE	SHIFT	CENTER ID	START TIME	END TIME

CONTACT DETAILS

PDF	EXCEL	COPY	PRINT

SELECT CENTER | SELECT ALL / 1 | **FIND**

CENTER ID:

MEDICAL SUPPORT

NAME : DOCTOR 1

CONTACT NUMBER: 9876543210

INSEMINATION

NAME : NAME 1

CONTACT NUMBER: 9873456210

OFFICER

NAME : OFFICER 1

CONTACT NUMBER: 9876543210

SUPERVISOR

NAME : NAME 1

CONTACT NUMBER: 9873456210

MIS - REPORT

S.NO	MENU	WORKFLOW DESCRIPTION
4	**MIS - Report** **4.1 Absent list report** **4.2 Comparative list report**	Reports should be accessed by the admin users to view the Farmer and center activities in details as follows, - **Absent list,** it refers the list of farmers who are all not poured the milk for the particular day. The report can be generated by using the filtration of date and collection center. Depends upon the filtration, the report should show the absentees list of farmers. - **Comparative list report** should able to compare the monthly comparison for the collection center or farmer with the previous month.

PROJECT DELIVERABLES

- As per the timeline, the project will gets initiated and delivered for the UAT.
- After UAT confirmation, the live portal will be accessed through web based browser and mobile android application.

TERMS OF SERVICES

- Project development will be initiated once the timeline and budget is fixed with PO confirmation.
- Once the project BRD is finalized, the timeline and budget will be discussed.
- The requirements which are all covered under this scope document at confirmation level will be considered as phase 1.
- Change request will be done only through approval.
- Project will be delivered once the UAT - user acceptance test is confirmed from client side and so the live application will be rolled out as per the timeline fixed.

BUSINESS REQUIREMENT

FUNCTIONAL REQUIREMENT

The requirement gathering is to be processed at initial stage. So, the functional flow will be fulfilled within the scope.

S.NO	REQUIREMENT DESCRIPTION	PRIORITY	COMMENTS
1	Ability to store, update, search, retrieve, print paper report bills.	1	
2	Functional flow should be integrated with all users- Farmers, Collection centre, and Admin.	1	
3	Ability to download all reports in excel or CSV and PDF format. Then the filtration should be provided based on the report header.	1	
4	Each type of users should access only their own functional flows, none other than their workflow shouldn't be present.	1	
5	Ability to show the error pop up, while user does wrong updating. Meanwhile the alert pop also should be populated at the data input confirmation stages.	2	