



FEED FORMULA APP

USER GUIDE

DOCUMENT User Guide	DATE 11/03/2021 - Version 2
Product Feed Formula App	
Description A comprehensive user manual for a FEED FORMULA APP correct usage.	



SUPPORT PROVIDED BY



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LEGEND

SHORT NAME	LABEL	UNIT OF MEASURE	DESCRIPTION
ME	Metabolisable energy	MJ/Kg cal/Kg	Metabolisable energy is the energy available for use by the animal and it is calculated as Digestible energy minus energy lost in urine and gases (carbon dioxide & methane). (Feedipedia)
DM	Dry matter	% / g/Kg	The dry matter of feed refers to the material remaining after removal of water from the feed. The dry matter includes the nutrients in the feed such as includes carbohydrates, fats, proteins, vitamins, minerals, and antioxidants (e.g., thiocyanate, anthocyanin, and quercetin). Carbohydrates, fats, and proteins, which provide the energy in foods (measured in kilocalories or kilojoules), make up ninety percent of the dry weight of a diet. (Wikipedia)
CP	Crude protein	% / g/Kg	A measurement of protein content. In animal feeds, crude protein is calculated as mineral nitrogen x 6.25 (the assumption is that proteins of typical animal feeds contain 16% nitrogen in average). (Feedipedia)
CF	Crude fiber	% / g/Kg	A measurement of fibre content. Also known as Weende cellulose, crude fibre is the insoluble residue of an acid hydrolysis followed by an alkaline one. This residue contains true cellulose and insoluble lignin. Even though the more accurate Van Soest analysis has superseded it since the 1970s, the analysis of crude fibre remains common in feed laboratories. (Feedipedia)
ADF	Acid Detergent Fiber	% / g/Kg	Acid Detergent Fiber, fraction of the cell walls according to Van Soest, considered to be roughly equivalent to true cellulose and lignin. (Feedipedia)
NDF	Neutral Detergent Fiber	% / g/Kg	NDF, fraction of the cell walls according to Van Soest, considered to be roughly equivalent to hemicellulose, true cellulose and lignin. (Feedipedia)



SHORT NAME	LABEL	UNIT OF MEASURE	DESCRIPTION
ADL	Acid Detergent Lignin (Fiber)	% / g/Kg	It is the percentage of plant material which is insoluble in 72 percent sulfuric acid. Treatment with 72 % sulfuric acid dissolves cellulose and ashing the residue will determine the crude lignin fraction including cutin. Lignin reduces digestibility of a feed.
CF	Fat	% / g/Kg	Crude fat is the amount of fat or oil content of a feed, which is extracted by petroleum ether. This ether extract contains not only true fat, but fat soluble vitamins A, D, E, K, free fatty acids, cholesterol, chlorophyll, lecithin, resins, and volatile oils
Ca	Calcium (Mineral)	% / g/Kg	A major mineral (symbol Ca) essential for living organisms, in particular in cell physiology and for the mineralization of bone, teeth and shells. (Feedipedia)
P	Phosphorus (Mineral)	% / g/Kg	A major mineral (symbol P) essential for living organisms, in particular in cell physiology and for the mineralization of bone, teeth and shells. In plants, phosphorus is mostly stored in phytic acid. (Feedipedia)



GLOSSARY

LABEL	DESCRIPTION
RATION	Commonly defined the Ration is the total supply of feed given to an animal in a period of twenty–four hours. In this app, a ration is calculated taking into consideration specific animal parameters, the nutritional requirements associated to that parameter and the nutritional values of the ingredients used in the ration.
NUTRITIONAL REQUIREMENT	<p>The requirement for an essential nutrient is the amounts or concentration that is needed to maintain health or prevent disease. For many nutrients there is range of acceptable intakes which is defined by the minimum amount required to prevent adverse effects resulting from too little intake (deficiency) or the maximum intake above which, also results in adverse effects (i.e., toxicity).</p> <p>The range of acceptable intakes for any nutrient varies according to the specific nutrient in question, and the species and life-stage (i.e., growth, adult maintenance, pregnancy and lactation) it is intended for. (WikiVet)</p>
NUTRITIONAL VALUES	Nutritional value or nutritive value as part of food quality is the measure of a well-balanced ratio of the essential nutrients carbohydrates, fat, protein, minerals, and vitamins in items of food or diet in relation to the nutrient requirements of their consumer). (Wikipedia)
INGREDIENTS	Elements used for formulating the ration. Ingredient can be single ingredients, feed or milled bush.



INTRODUCTION



Welcome

TO FEED FORMULA APP

Feed Formula Application is an advanced app focused on animal health. By improving animal nutrition, each farmer can obtain the best balance in feed formulas and feed cost, monitoring every step of the process and its outcomes.

The app can be used on a laptop or mobile, using any browser available on the device.

The Feed Formula Application also works without an internet connection and you can consult and update your library of ingredients and rations using the offline mode.



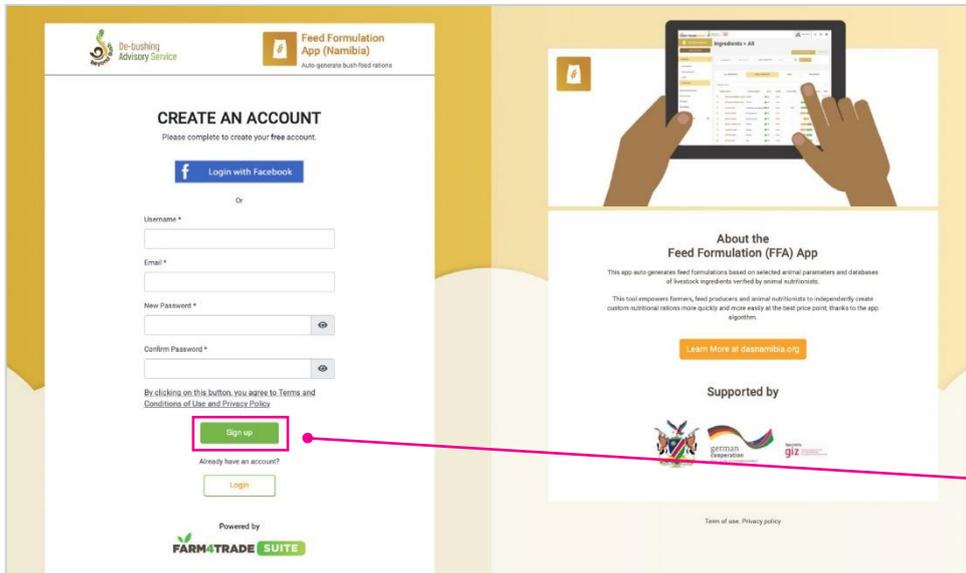
TO ACCESS THE APP:

Scan the QR Code or go to <https://ffa.dasnamibia.org>



01 REGISTRATION

Registration screen: ffa.dasnamibia.org



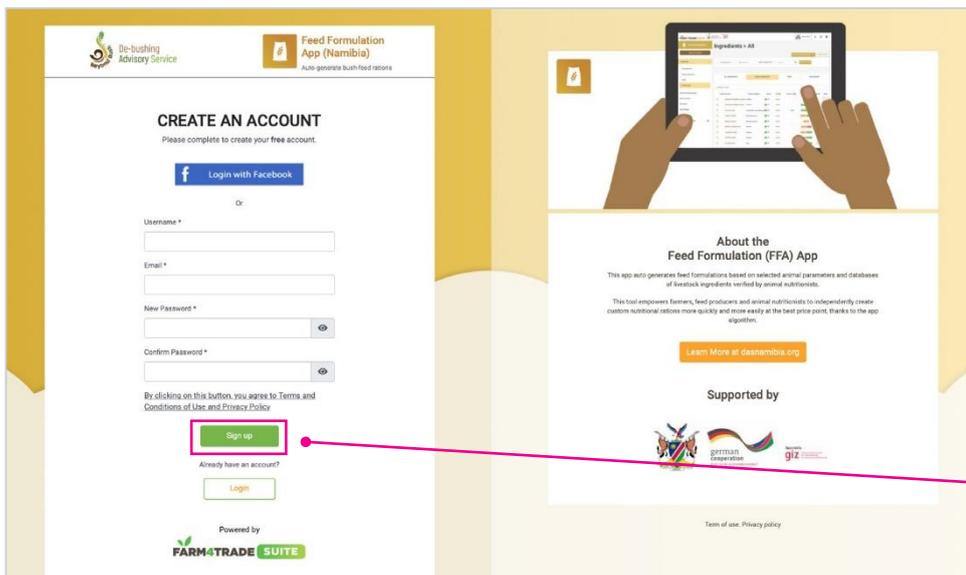
Registration screen

1. THE FEED FORMULA APP IS ACCESSIBLE ON LINE AT THE ADDRESS:

<https://ffa.dasnamibia.org>

If you already have an account, login using your username and password.

If you don't have an account yet, click on the **"SIGN-UP"** button to create a new one.



2. INSERT THE REQUIRED INFORMATION:

Username, Email and Password.

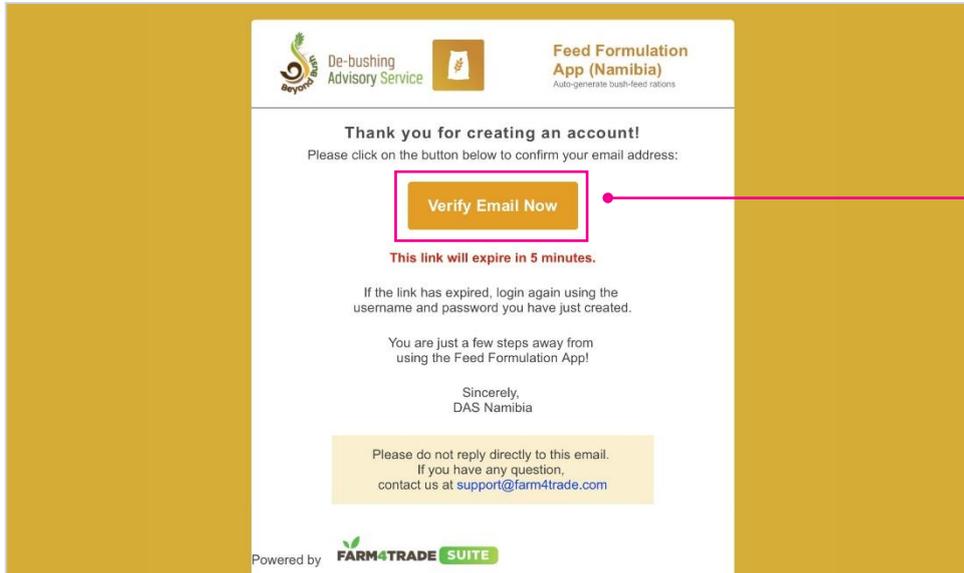
The password must be at least 8 digits long, and include one symbol, one number and an upper-case and lowercase letter.

Click on **"SIGN-UP"** to create your account.



01 REGISTRATION

Verify email screen



3. GO TO YOUR INBOX TO VERIFY EMAIL:

Click on the link you have received in your inbox to verify your account and access the **Feed Formulation App** for the first time.



02 FIRST ACCESS

Registration form step 1/3 screen

The screenshot shows the 'Registration form (1/3)' screen. It is titled 'Required Information'. There are four input fields: 'First name *' with the placeholder 'name', 'Last name *' with the placeholder 'lastname', 'Country *' with a dropdown menu showing 'Namibia', and 'Phone number *' with a yellow background. A 'Dial code +' dropdown menu shows '[NA] +264'. At the bottom left is a 'Logout' button with a house icon. At the bottom right is a green 'Continue' button with a right arrow, which is highlighted with a pink box. A pink arrow points from this box to the text on the right.

1. WHEN YOU ACCESS THE APP FOR THE FIRST TIME,

you will be prompted to complete your account with some basic information.

Complete with your **First and Last name**, confirm your **Country** and add your **Phone number**.

The required fields marked with an *asterisk**,

When the information is complete, click on **“CONTINUE”**.

Registration form step 2/3 screen

The screenshot shows the 'Registration form (2/3)' screen. It is titled 'Please enter your Farm's info' with a sub-note 'You can always modify later.' There are three input fields: 'Organization type *' with a dropdown menu showing 'Farm', 'Organization name *' with the placeholder 'My Farm', and 'Country *' with a dropdown menu showing 'Namibia'. At the bottom left is a 'Back' button with a left arrow. At the bottom right is a green 'Continue' button with a right arrow, which is highlighted with a pink box. A pink arrow points from this box to the text on the right.

2. ENTER YOUR FARM'S INFO

Complete with the name of the farm and confirm the country where the farm is based.

When the information is complete, click on **“CONTINUE”**.



02 FIRST ACCESS

Registration step 3/3 screen

Registration form (3/3)

Please confirm your Settings
You can always modify later.

Country *
Namibia

Currency *

Weight Units * 1 Weight unit of measure *

← Back **Confirm all** ✓

3. CONFIRM YOUR SETTINGS.

Such as **country**, **currency** and **weight units**.

These last settings will be used in the formulation of the rations in the app.

You can change them after your first login, by going to the **App Settings** section in the app.

When the information is complete, click on **"CONFIRM ALL"**.

★ TIP:

When you create an account and login for the first time, it is strongly advised to finish the subscription and access the app for the first time from the same device.



03 CREATE RATION

Create ration button screen

1. CLICK ON THE CREATE RATIONS BUTTON

(on the top left), to start creating rations.

For a detailed explanation of the fields, see the **Animal Parameters definition** below.

ANIMAL PARAMETERS DEFINITION:

At the first login, it is advised to select the Geography zone and Baseline unit cost fields and **"SAVE"**, in order to avoid repeated prompts in the Create Rations module.

- 1. Select Species:** this is a required field. Select the species of the animal (at the moment only the option Cattle is available)
- 2. Production Purpose:** this is a required field. Choose between Dairy/Milk or Meat/Beef, according to your activity.
- 3. Sex of the animal:** this is not a required field, but can be useful when calculating distinctions for animals that are raised for the same purpose but are different sexes.
- 4. Production Status:** specify the status of the animal to better adapt the calculation of the ration to your production purposes.
- 5. Weight range:** this is a required field. Indicate the average weight range of your animals, to better adapt the ration. The 100kg range is recommended as a generic range.

The **Production Purpose Level** field is not a required field, and can be used as a more specific indication of your production goal in case of milk production.

You can change the pre-selected **Geography** and **Currency** information if needed.

By indicating the **Budget for 100kg of ration**, the app will compare the prices and show the best price match in the generated rations.



03 CREATE RATION

STEP 1: Define animal parameters screen

STEP 1. DEFINE THE ANIMAL PARAMETERS

that you want to use for your ration: complete the fields following the order from 1 to 5. (ex: first the field *Select Species*, then *Production Purpose* etc.).

Required fields are marked with an *asterisk**.

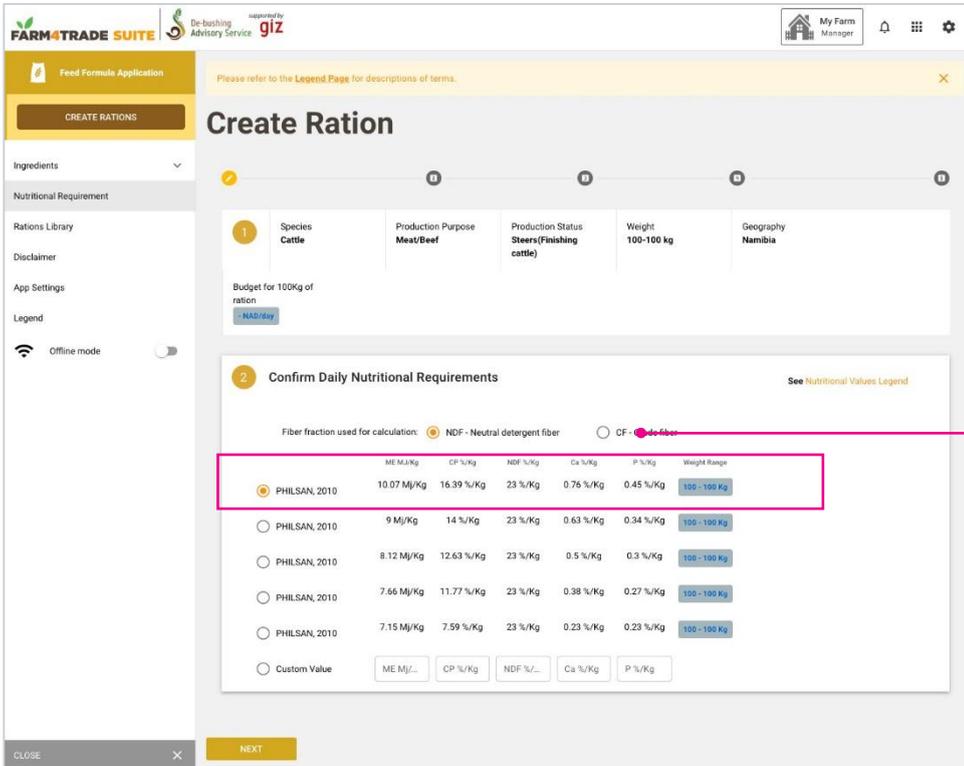
Each field is dependent on the previous field according to your choice.

Click on **“NEXT”** to move to the second step.



03 CREATE RATION

STEP 2: Select a nutritional requirements screen



STEP 2. CONFIRM NUTRITIONAL REQUIREMENTS.

According to the parameters chosen in step 1, the app will suggest a list of **Daily Nutritional Requirements**, formulated by our experts, that better match your production purposes.

You can choose between **NDF** and **CF** as the fiber fraction used for the calculation.

Select one of the nutritional requirements proposed by the system. If you prefer or if you don't have any results, enter your custom values (when entering your custom values, use « . » for decimals). These requirements will be used in the calculation of the ratio of the ingredients that will be part of your Ration.

Click on **"NEXT"** to continue to the next step or on **"BACK"** if you wish to change the entered data.

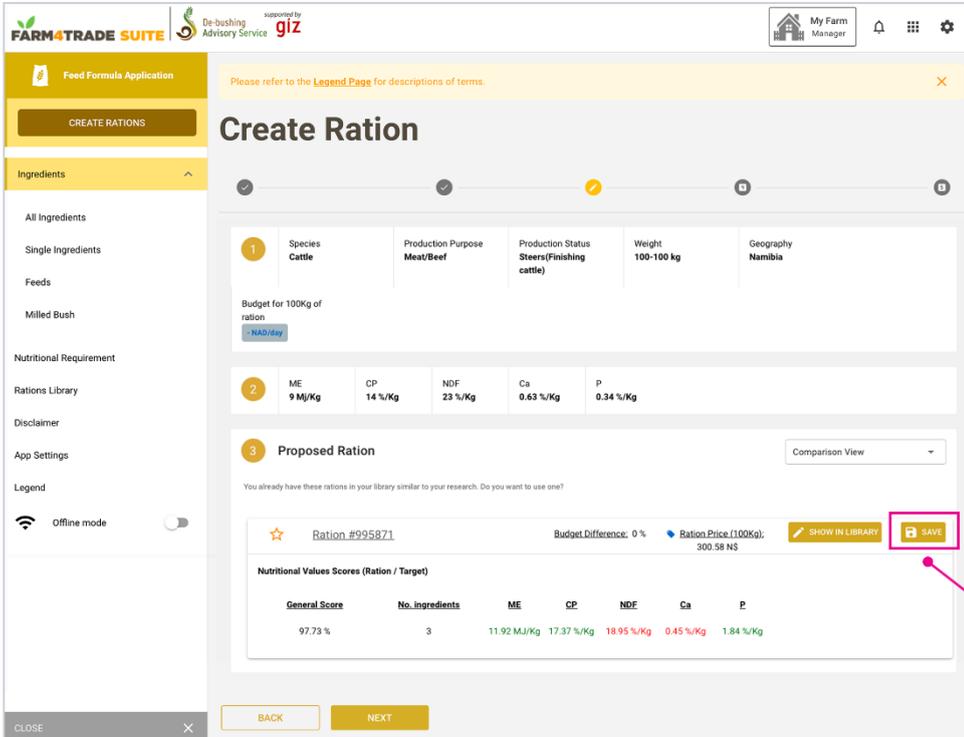
★ TIP:

For a detailed explanation of **Nutritional Values** used in these calculations, see the Legend at the beginning of this guide or click on **Nutritional Values Legend** on the App.



03 CREATE RATION

STEP 3: Compare with your library screen



STEP 3. PROPOSED RATION

If your **Rations Library** contains one or more rations similar to the one that you are creating, the app will automatically suggest to use it.

For more information on how to read the details of the rations, see **Rations Comparison & Card view** in the next page.

If you are happy with one of the results and you want to save it with another name inside your library, click on **“SAVE”**. You can also see the ration in detail by clicking on **Show in library**. Another page will open (see section 07 for more details on the Rations Library).

If you have no results or if you want to create a brand-new ration, click on **“NEXT”**.



03 CREATE RATION

RATIONS COMPARISON VIEW AND CARD VIEW:

There are two views available to help you compare and understand the generated rations:

1. **Comparison view** (default view)
2. **Card view**

In the **Comparison view**, rations are shown in a list sorted by **General Score**. Switch to **Card view** if you want to compare the rations by looking at the details of the ingredients used. Each view contains the following elements:

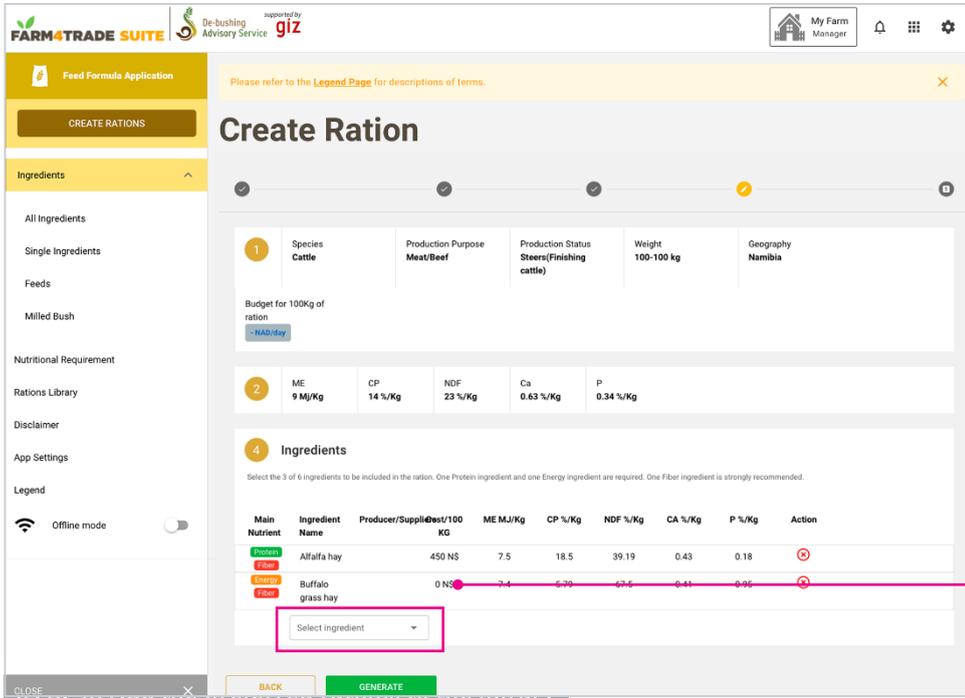
- **General score:** the match between the proposed ingredient and the requested nutritional values.
- **Budget difference:** the difference between the cost of the proposed ration compared to the budget indicated in the request
- **Ration price:** the price of 100kg of the proposed ration
- **No. Ingredients:** the number of ingredients used for the proposed ration. If you are using the Comparison view, click on the name of the ration to see which ingredients are used.
- **ME, CP, NDF, Ca, P:** these are the nutritional values scores (see legend for more info on each value). If these values are **green**, it means that they are above the suggested value, if they are **red**, they are below.

You can sort the list of rations by clicking on each of the values above. For example, if you wish to sort the list from the highest to the lowest price, click on Ration price.



03 CREATE RATION

STEP 4: Select at least 3 ingredients screen



STEP 4. INGREDIENTS

Select 3 to 5 ingredients to include in the ration. One Protein ingredient and one Energy ingredient are required. One Fiber ingredient is strongly recommended.

Click on the **“SELECT INGREDIENT”** menu and choose from the list. If you are using a laptop, you can start typing your ingredient to move faster in the list.

Once your selection is done, click on **“GENERATE”**.

STEP 5. PROPOSED RATIONS

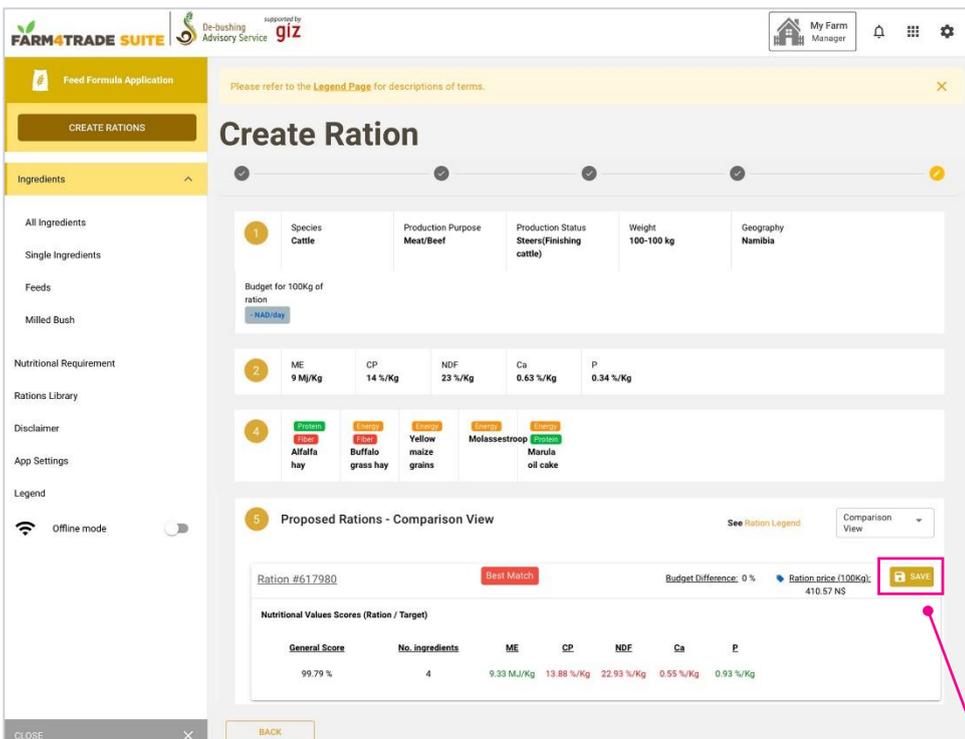
The App will provide a list of rations that match your request.

The first three on the list correspond to the

- Best Match
- Lowest Price
- Most Nutrient

Like in step 3, you can switch between **Comparison View** or **Card View** and click on the other values to sort the list differently.

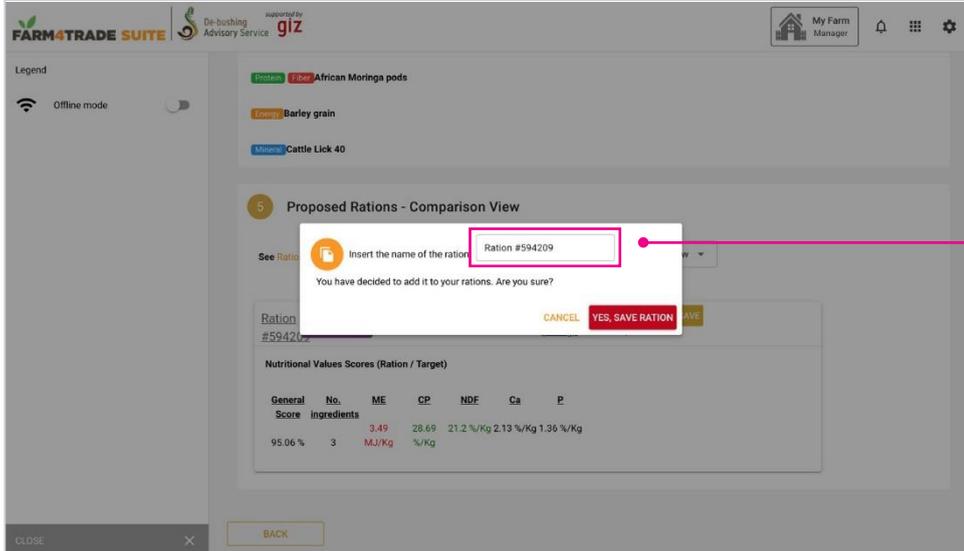
Choose the ration that matches your need and save it in your **Rations Library** by clicking on the **“SAVE”** button on the ingredient.





03 CREATE RATION

Save ration screen

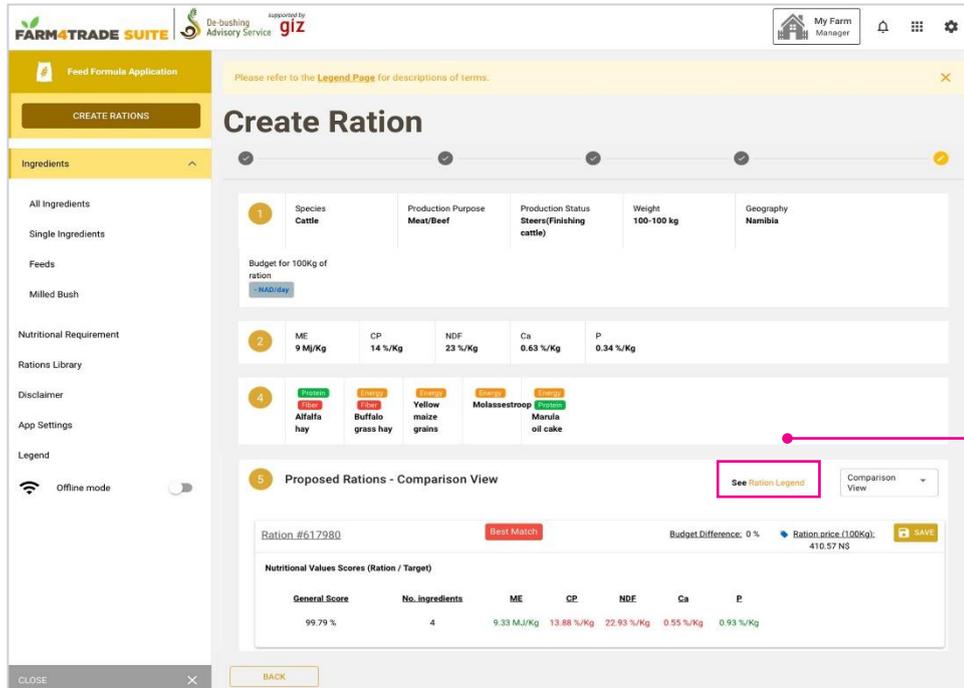


6. RENAME

the ration you have just chosen and click on **Yes,save ration.**

If you want to see the details or make any changes to the **Ration**, click on **“SHOW MY RATION IN LIBRARY”**, or choose **“CLOSE”** if you are done.

Legend info screen



7. FOR MORE INFORMATION,

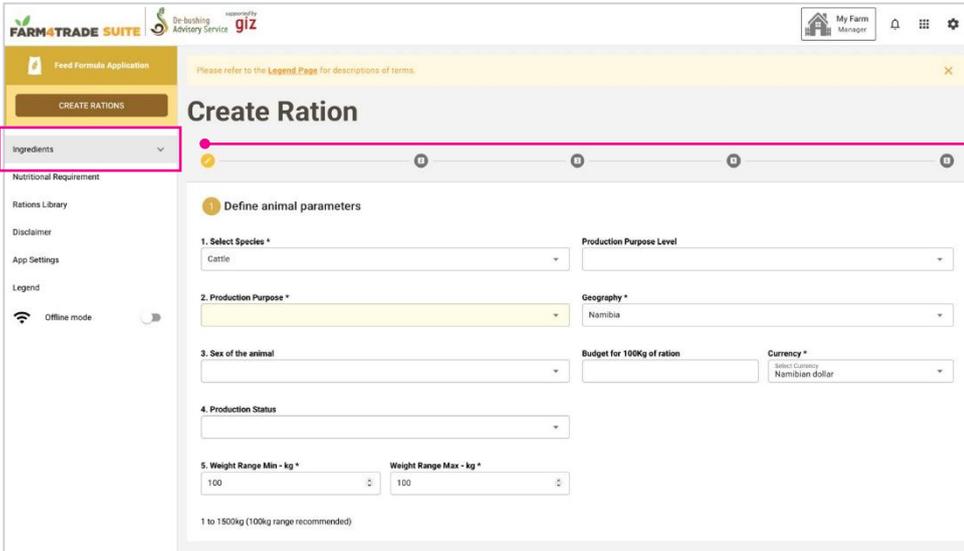
on how to read this page,click on **Ration Legend.**

The Legend is always available in the left side menu.



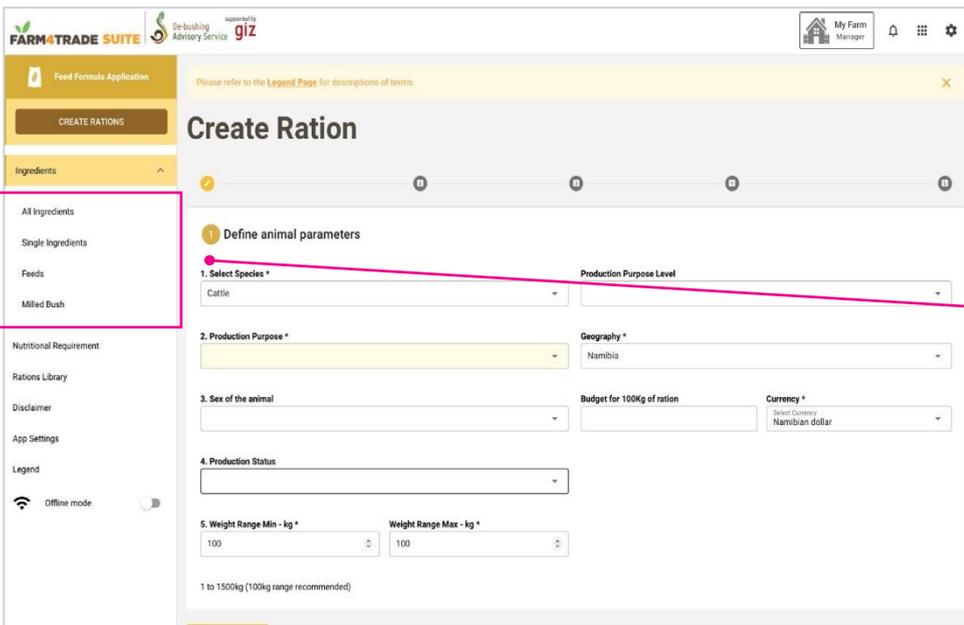
04 INGREDIENTS

Ingredient list screen



1. CLICK ON **INGREDIENTS IN THE MENU**, on the left of the screen to access the list of ingre-dients.

Ingredient list screen



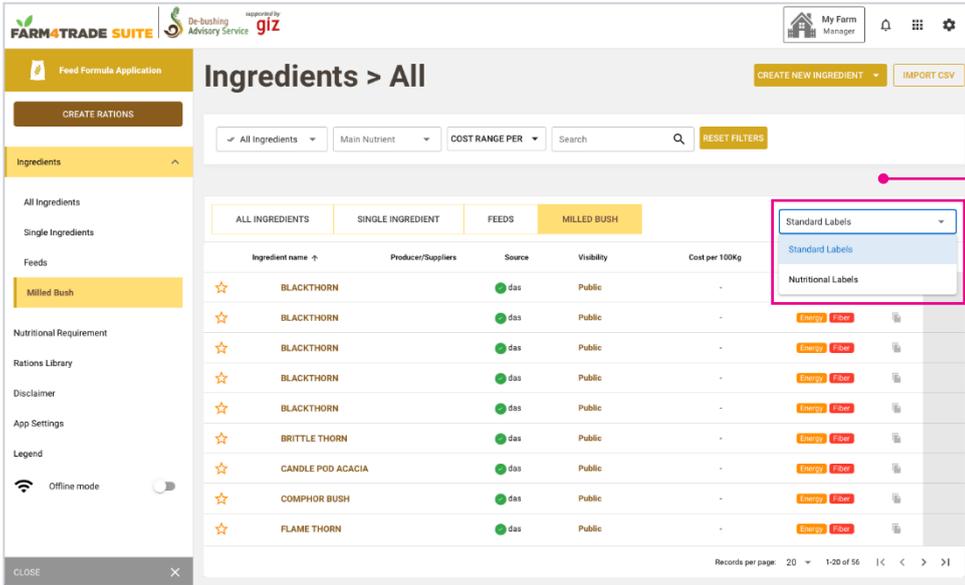
2. YOU NOW HAVE ACCESS TO THE LIST OF **INGREDIENTS THAT WILL BE USED TO FORMULATE YOUR RATIONS.**

You can choose to view **All ingredients** at once or to filter by **Single Ingredients** (*ingredients commonly used in ra- tions calculation*), **Feeds** (*processed ingredients normally sold in bulk by a supplier*) and **Milled Bush** by switching item in the side menu or by using the bar on the top of the list.



04 INGREDIENTS

Ingredient list label view screen



3. SWITCH VIEWS between **Nutritional Labels** and **Standard Labels** by using the menu on the top right of the list.

Standard Labels will display the general information of the ingredients (see *Standard Labels definition below for more information*);

Nutritional Labels will show the nutritional values details of the ingredients.

STANDARD LABELS DEFINITION:

Ingredient name: name of the ingredient

Producer/ Suppliers: name of the supplier of the ingredient

Source: name of the user who added the ingredient in the list

Visibility: permission status for the ingredients. All ingredients that are verified and added by a verified source are “public”. Ingredients added by the user are “me” by default.

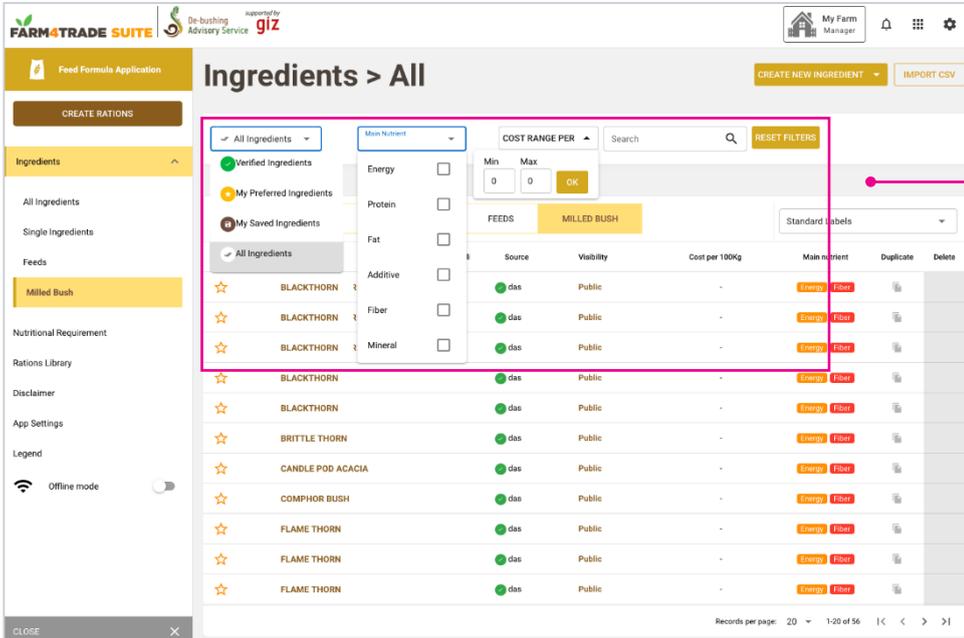
Cost per 100kg: cost of the ingredient per 100kg. This information is specified during the creation of the ingredient.

Main nutrient: main nutrient (Energy, Protein, Fiber, Mineral or Additive) of the ingredient (Ingredients may have more than one tag).



04 INGREDIENTS

How to filter the ingredients list screen



4. IN THE STANDARD LABEL VIEW, YOU CAN FILTER YOUR LIBRARY OF INGREDIENTS BY USING THE SEARCH FILTERS BAR

You can filter your list by:

Verified ingredients: these are standard in- gredients included in theApp, that are validated byAnimal Nutritionists.

My Preferred ingre- dients: ingredients that can be marked as pre- ferred for easier retrievallater.

My saved ingredients: in- gredients that have been created and saved by the user..

You can also filter by choosing the **Main nutri-ent** or by entering a **Costrange** with a Min and a Max value.

You can also search for an ingredient directly bytyping its name in the Search bar.

Click on **“RESET FIL- TERS”** to cancel all filtersand go back to the com-plete list.

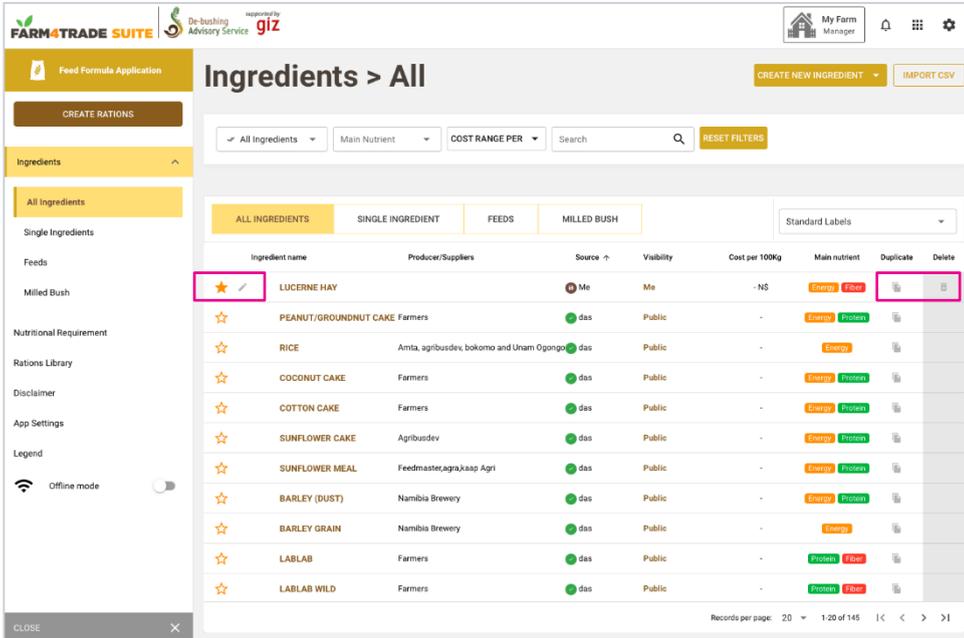
★ NOTE:

When you login, **All Ingredients** is always the default view in all ingredients, requirements andrations lists.



04 INGREDIENTS

Available actions on ingredients list screen



5. THE ICONS IN THE LIST REPRESENT DIFFERENT ACTIONS THAT ARE AVAILABLE:

Click on the **Star** to mark your preferred ingredients.

Edit directly each ingredient by using the **Pencil icon**. This icon appears only if the user has permission to edit.

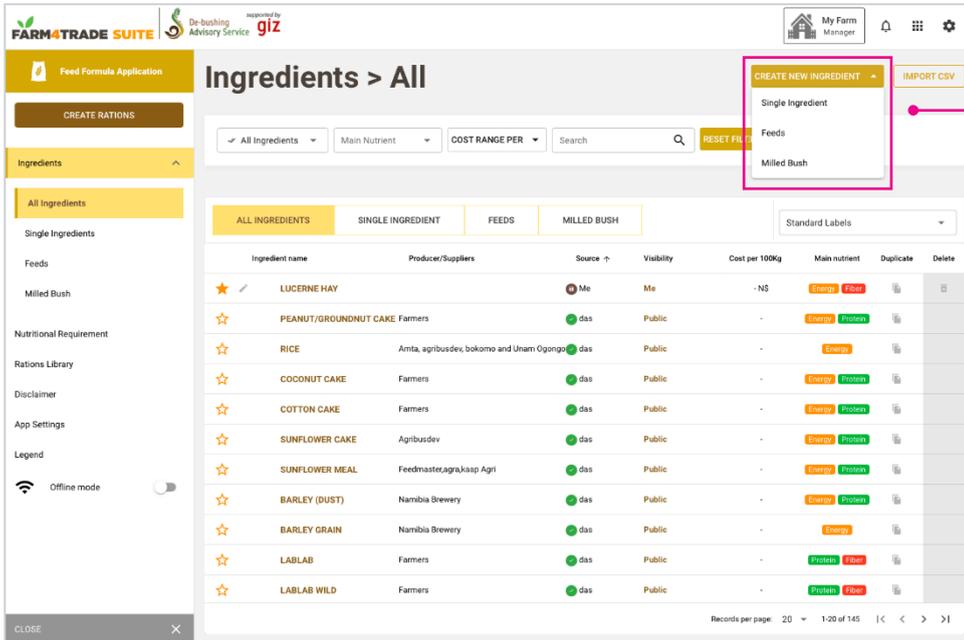
By clicking on the **Duplicate icon**, create a copy of the ingredient, with the benefit of fields being pre-populated from the original ingredient. The copy will appear in the list. You can edit the information by clicking on the **Pencil icon**.

Use the **Delete function** to delete an ingredient from the list. This function appears only if you have permission rights or if you have created the ingredient.



04 INGREDIENTS

Create new ingredient screen



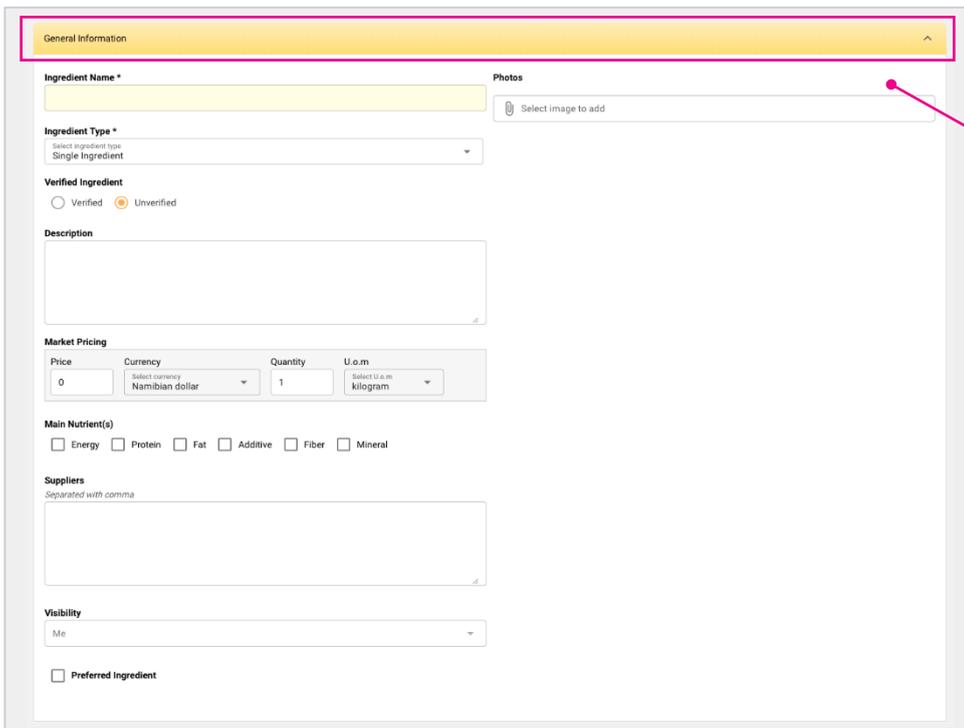
6. YOU CAN CREATE A NEW INGREDIENT

by clicking on “**CREATE A NEW INGREDIENT**” button on the top right of the page.

Select in the drop list that appears the type of ingredient you want to create: **Single ingredient, Feeds** or **Milled Bush**.

Scroll down the page to view all the sections. Click on the yellow section headers to toggle expand and collapse of info panels.

Complete new ingredient form screen



7. START BY ADDING THE GENERAL INFORMATION OF THE INGREDIENT.

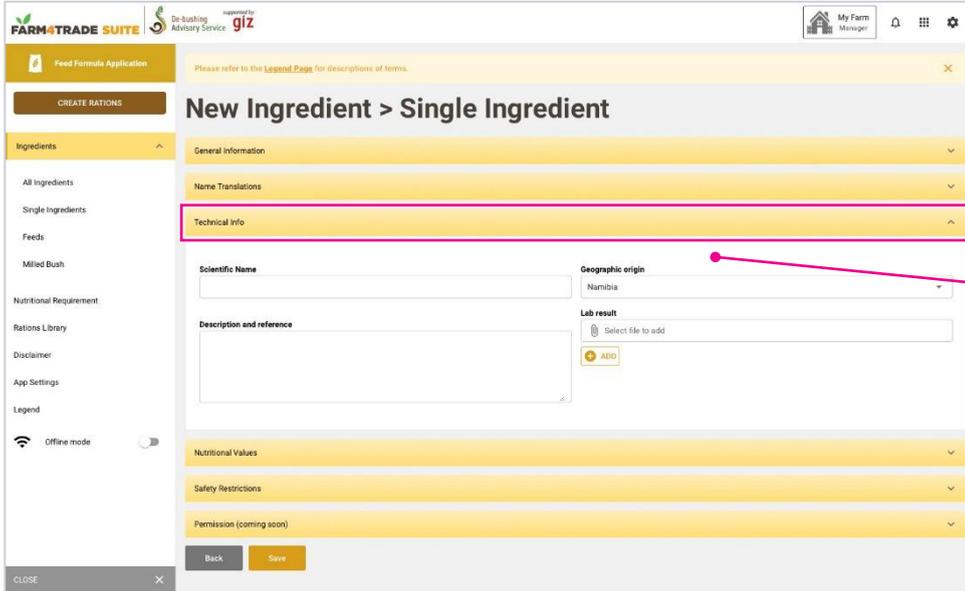
Add the **Name**, the **Type** of ingredient and a brief **description**. You can set the **Market Pricing** and also the **Main Nutrients** tag. You can set the ingredient as a **preferred ingredient** in this section.

All ingredients will be automatically set on **Unverified** and **Visibility “me”**.



04 INGREDIENTS

Name translations and technical info screen

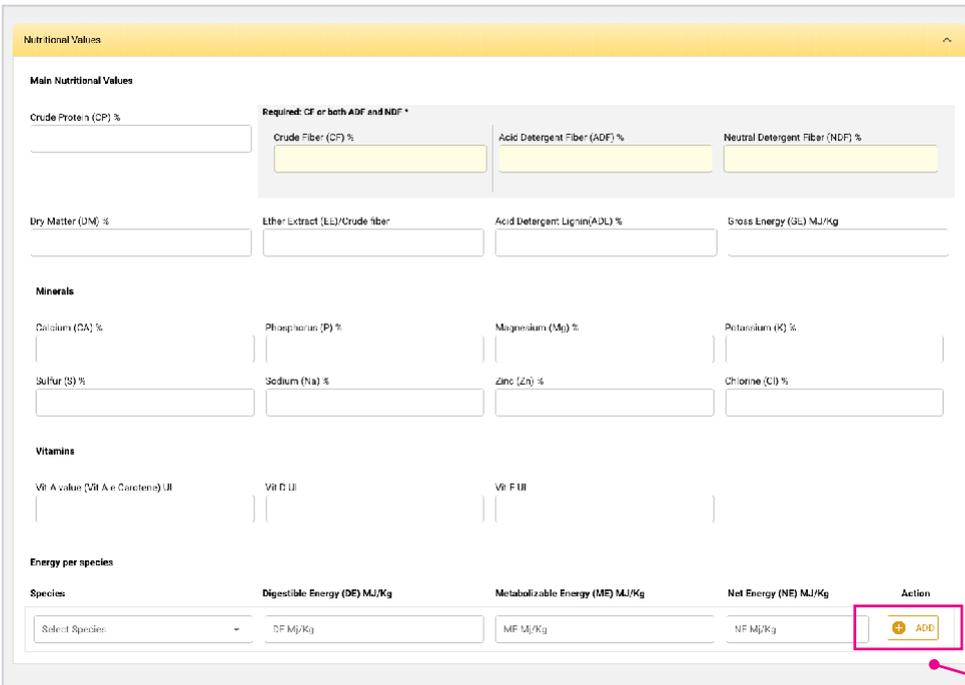


8. TRANSLATE THE NAME OF YOUR INGREDIENT IN ANOTHER LANGUAGE,

and add **Technical information** such as **Scientific name**, **Geographic origin** or **Lab results**.

These parts are not compulsory. All required fields are marked with an **asterisk***.

Nutritional values tab screen



9. IN THE NUTRITIONAL VALUES TAB,

complete the nutritional values information of your ingredient.

Refer to the legend at the beginning of this guide for more information.

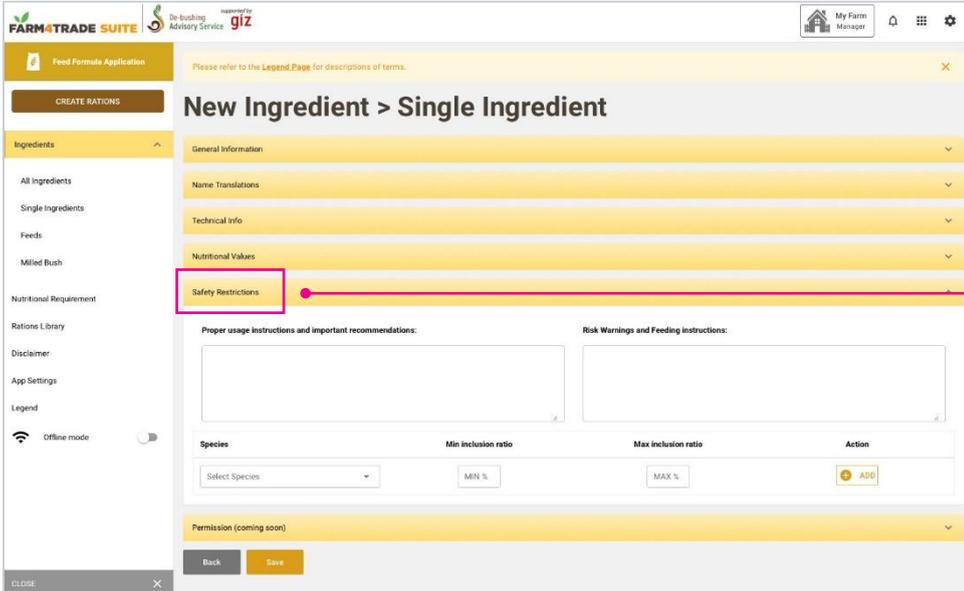
Remember: **Crude Fiber (CF)** or both **Acid Detergent Fiber (ADF)** and **Neutral Detergent Fiber (NDF)** are required.

In the last part of this section, you can specify the Energy values of the ingredient for a particular species (*at the moment, only Cattle is available*).



04 INGREDIENTS

Safety restrictions and permission screen



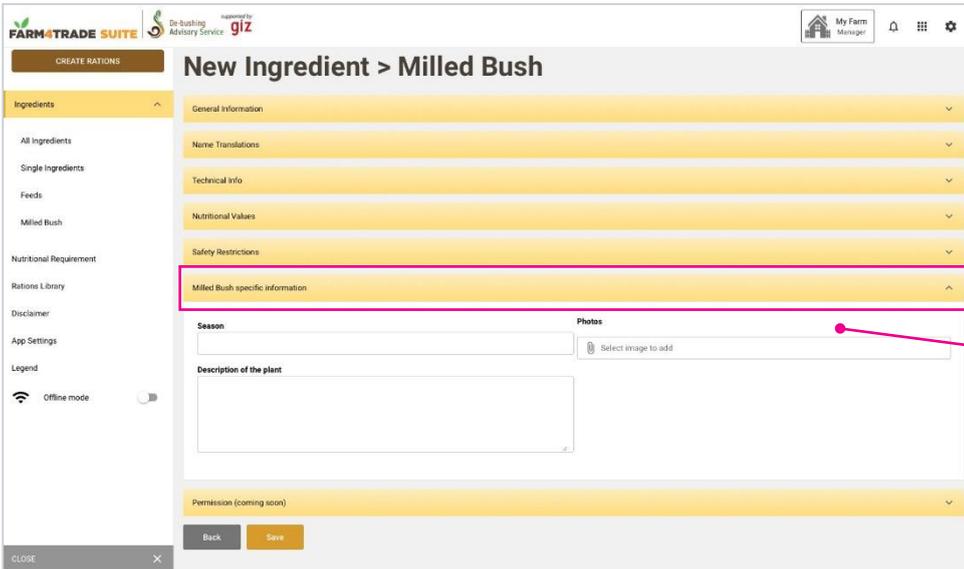
10. COMPLETE YOUR INGREDIENT'S INFORMATION,

by filling up the **Safety Restrictions** tab, where you can add important instructions or recommendations.

The **Permission** tab is not editable at the moment.

Click on **"SAVE"** to add your ingredient.

Milled bush ingredient screen



11. IF YOU ARE ADDING A MILLED BUSH INGREDIENT,

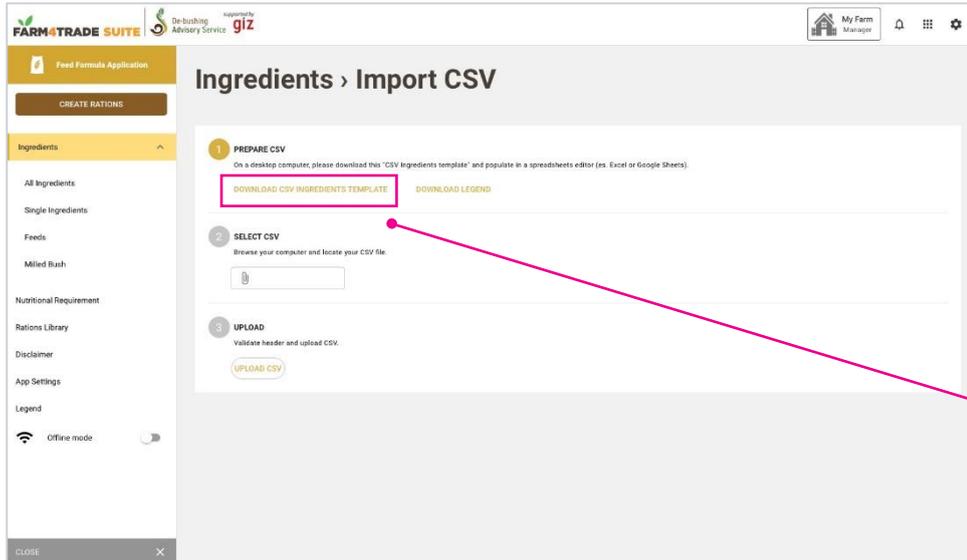
You will find an additional tab called **Milled Bush** specific information, that refers only to milled bush ingredients.

Add information such as the **Season** of the ingredient, the **description** of the plant and upload a picture if you wish.



04 INGREDIENTS

Import ingredients using a CSV file screen



12. YOU CAN UPLOAD A LIST OF INGREDIENTS BY USING THE IMPORT CSV FUNCTION,

In the All Ingredients list page, click on the importCSV icon you will find in the top right and follow these steps:

1. **Prepare CSV** by downloading the CSV INGREDIENTS TEMPLATE and entering your data in a spreadsheet software of your choice;
2. **Select** the file you wish to import;
3. **Upload** your CSV.
4. **Go back to the list** of ingredients and search for the imported ingredients.

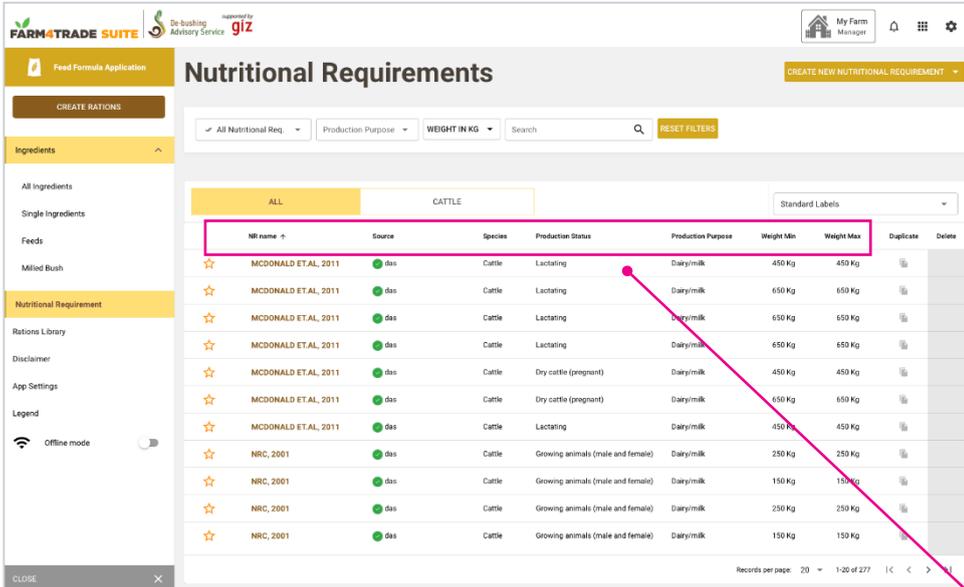
★ TIP:

During importing, you may be prompted to take action if the system detects duplicate entries.



05 NUTRITIONAL REQUIREMENTS

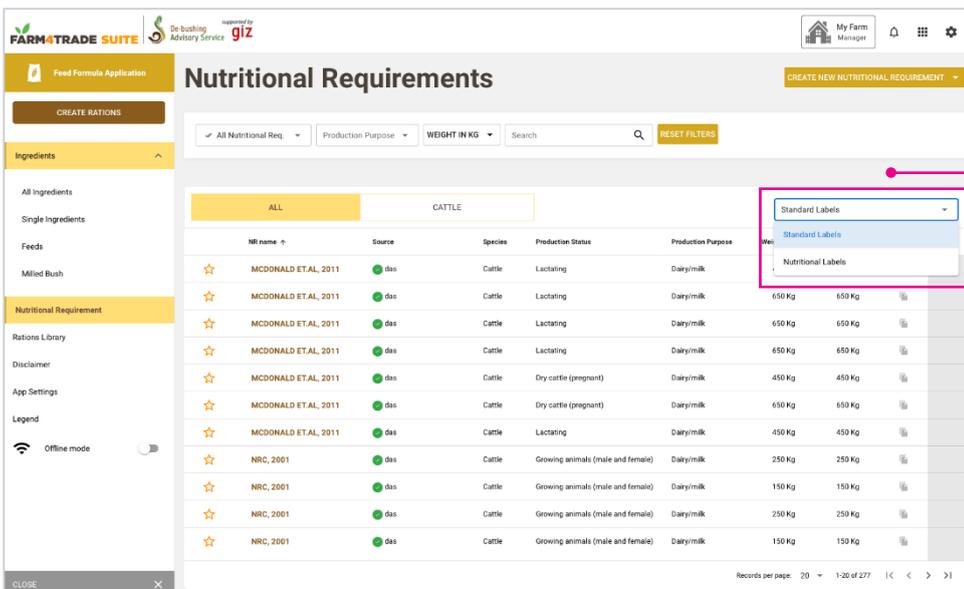
Nutritional requirements list screen



1. YOU CAN ACCESS THE COMPLETE LIST OF NUTRITIONAL REQUIREMENTS, by clicking on **“NUTRITIONAL REQUIREMENT”** in the left menu.

The nutritional requirements are formulated by our experts and contain the requirements for a specific species, sex, purpose etc. that will be used in the formulation of the ration.

The default view of the requirements is set to Standard Labels. This view will give you access to the **Name, Source, Species, Production status, Purpose and Weight range** of the requirement. Click on each of the items to sort the list.



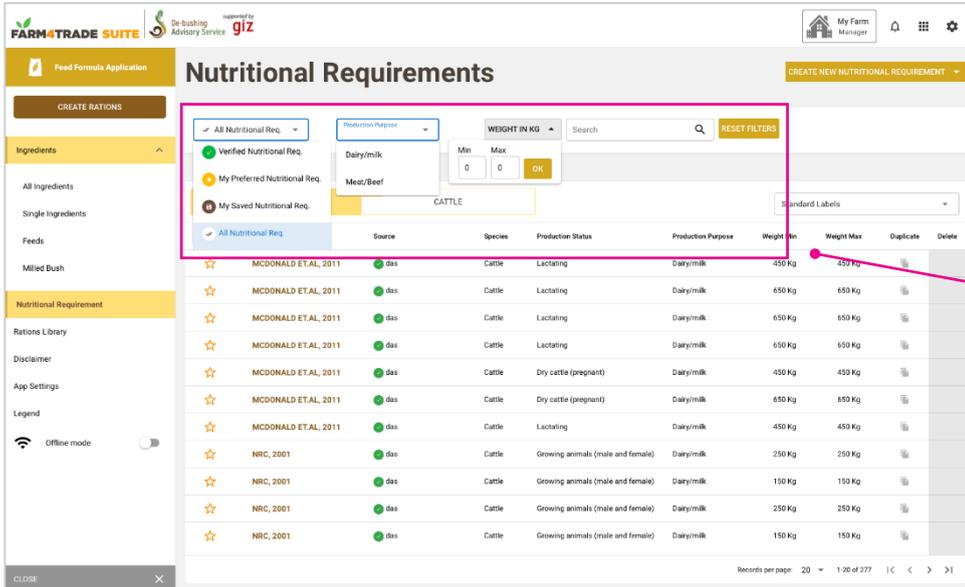
2. SWITCH TO NUTRITIONAL LABELS,

If you wish to have a more detailed view of the nutritional elements used for the formulation.



05 NUTRITIONAL REQUIREMENTS

How to filter the nutritional requirements list screen



3. FILTER THE LIBRARY OF NUTRITIONAL REQUIREMENTS BY USING THE SEARCH FILTERS BAR.

You can filter your list by:

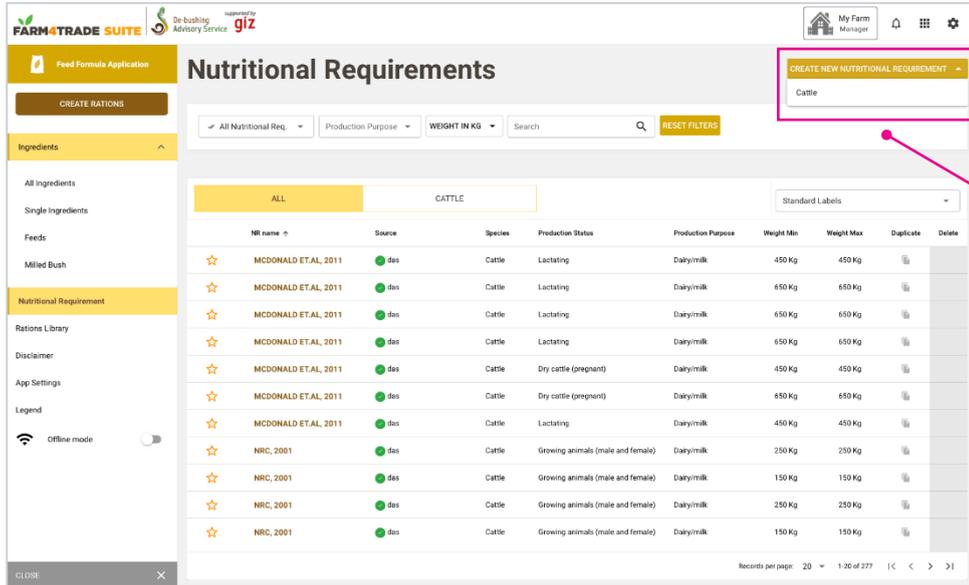
- **Verified nutritional req:** standard nutritional requirements information included in the App, validated by Animal Nutritionists.
- **My preferred nutritional req:** nutritional requirements that have already been marked as preferred.
- **My saved nutritional req:** nutritional requirement information that has been created and saved by the user.

In the Standard Labels view, you can also filter by **Production purpose** and per **Weight in KG** or search directly by typing the name of the ingredient in the **Search bar**.



05 NUTRITIONAL REQUIREMENTS

Add new nutritional requirement screen

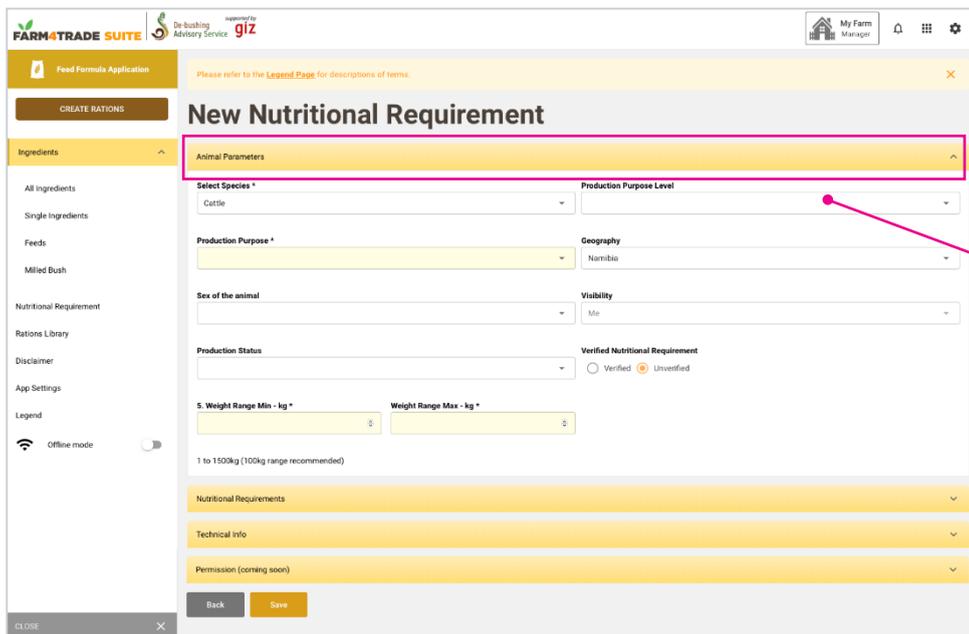


4. YOU CAN ADD YOUR OWN NUTRITIONAL REQUIREMENT.

To do so, click on the button “CREATE NEW NUTRITIONAL REQUIREMENT” on the top right of the page with the Nutritional Requirements list.

Choose the species (*only Cattle is available at the moment*).

Complete animal parameters screen



5. COMPLETE THE FIELDS IN EACH TAB.

Required fields are marked with an asterisk.

Insert the **Animal parameters**, by choosing the species, production purpose and weight range.

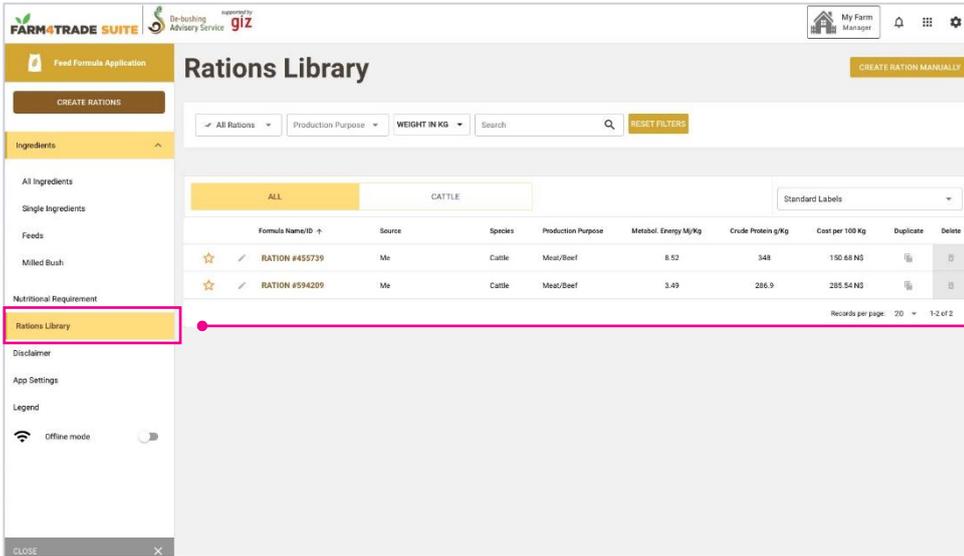
In the **Nutritional Requirements tab**, add the specific information about the Nutritional Target for each nutrient.

In the **Technical Info tab**, you can add a brief description and reference of the requirement you are creating.



06 RATIONS LIBRARY

Rations library screen



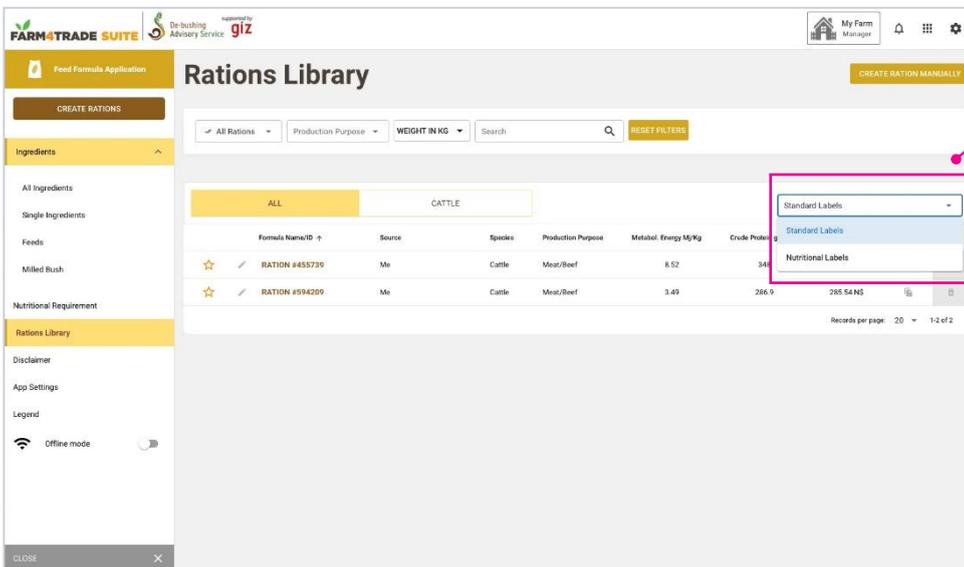
1. IN THE RATIONS LIBRARY,

you will find all the rations created or saved by you.

Click on the name of the ration to see its details and to edit it.

Click on **“SAVE”** if you want to save your changes or on **Delete ration** if you want to delete it.

Rations library label view screen



2. SWITCH VIEWS BETWEEN STANDARD LABELS AND NUTRITIONAL LABELS,

by clicking on the drop-down menu on the right on top of the list of ingredients.



06 RATIONS LIBRARY

How to filter rations library screen

The screenshot shows the 'Rations Library' screen in the FarmTrade Suite app. The interface includes a sidebar with navigation options like 'Ingredients', 'Feeds', and 'Rations Library'. The main area displays a list of rations with columns for 'Ration ID', 'Name', 'Source', 'Species', 'Production Purpose', 'Metabol. Energy MJ/Kg', 'Crude Protein g/Kg', and 'Cost per 100 Kg'. A filter overlay is visible, allowing users to select 'Verified Rations', 'Preferred Rations', or 'Saved Rations'. It also includes a 'Production Purpose' dropdown (set to 'Dairy/milk'), a 'WEIGHT IN KG' filter with 'Min' and 'Max' input fields (both set to 0), and a 'Search' bar. A 'RESET FILTERS' button is located at the top right of the filter overlay. A pink box highlights the filter overlay, and a pink arrow points from the text on the right to the 'RESET FILTERS' button.

Ration ID	Name	Source	Species	Production Purpose	Metabol. Energy MJ/Kg	Crude Protein g/Kg	Cost per 100 Kg	Duplicate	Delete
RATION #59373V	Me		Cattle	MEAT/BEEF	3.32	348	150.68 NS		
RATION #594209	Me		Cattle	Meat/Beef	3.49	286.9	285.54 NS		

3. YOU CAN FILTER YOUR LIST BY USING THE FILTERS ON THE TOP OF THE LIST.

You can filter your list by:

- **Verified rations:** created and included in the App, validated by Animal Nutritionists.
- **Preferred rations:** rations that have been marked as preferred for easier retrieval later.
- **Saved rations:** rations created and saved by the user.

Verified rations is always the default view.

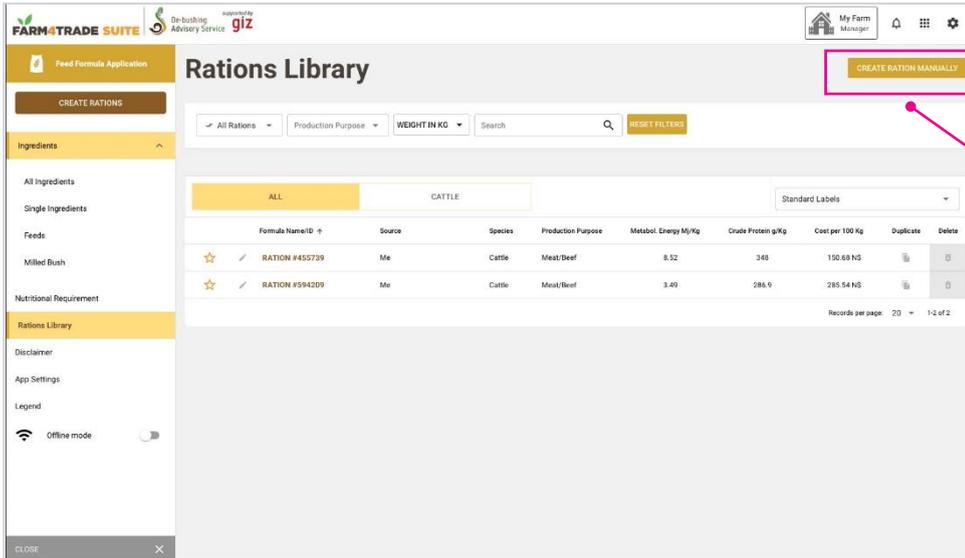
You can also filter by **Production purpose** and per **Weight in KG** or search directly by typing the name of the ration in the **Search bar**.

Click on **“RESET FILTERS”** to cancel all filters and go back to the complete list.



06 RATIONS LIBRARY

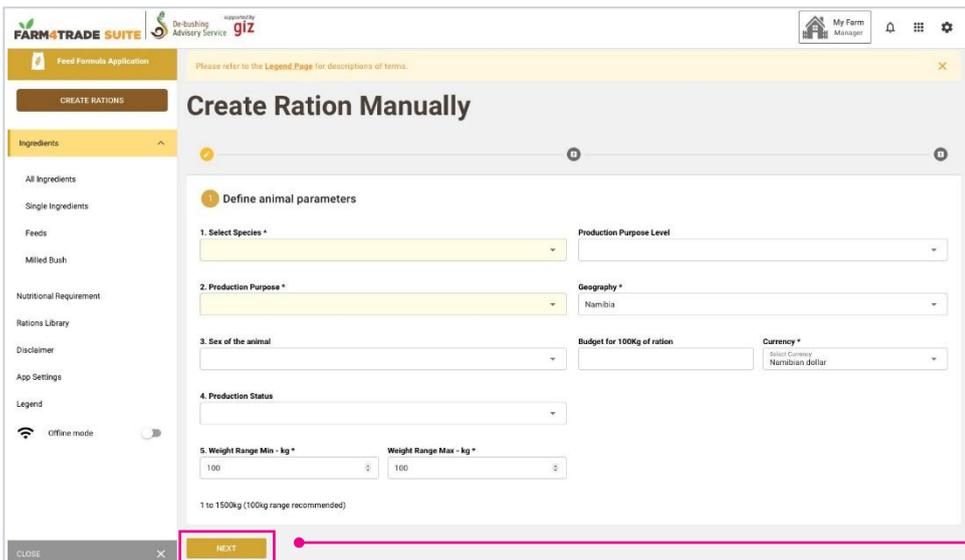
How to create a ration manually screen



4. YOU CAN ALSO ADD A RATION MANUALLY TO YOUR LIBRARY.

Go back to the list of rations and click on “**CREA-TE RATION MANUALLY**”.

STEP 1: Define animal parameters screen



5. DEFINE THE ANIMAL PARAMETERS.

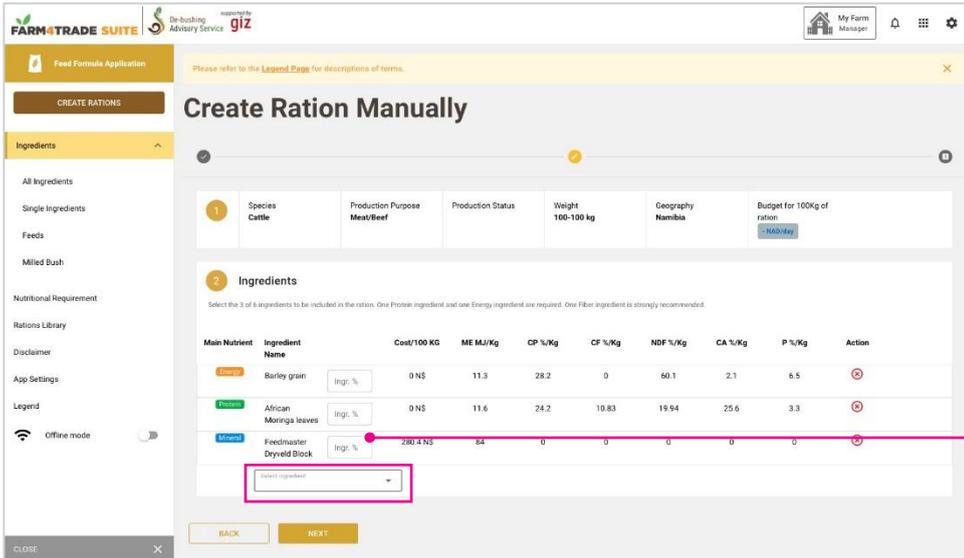
Following the same steps as illustrated in section 04.1.

Click on “**NEXT**” to move to the following step.



06 RATIONS LIBRARY

STEP 2: Choose the ingredients screen



6. CHOOSE THE INGREDIENTS

from the **“SELECT INGREDIENT”** menu.

Unlike the Create Ration section, you will choose the ratio of ingredients that will be part of the ration.

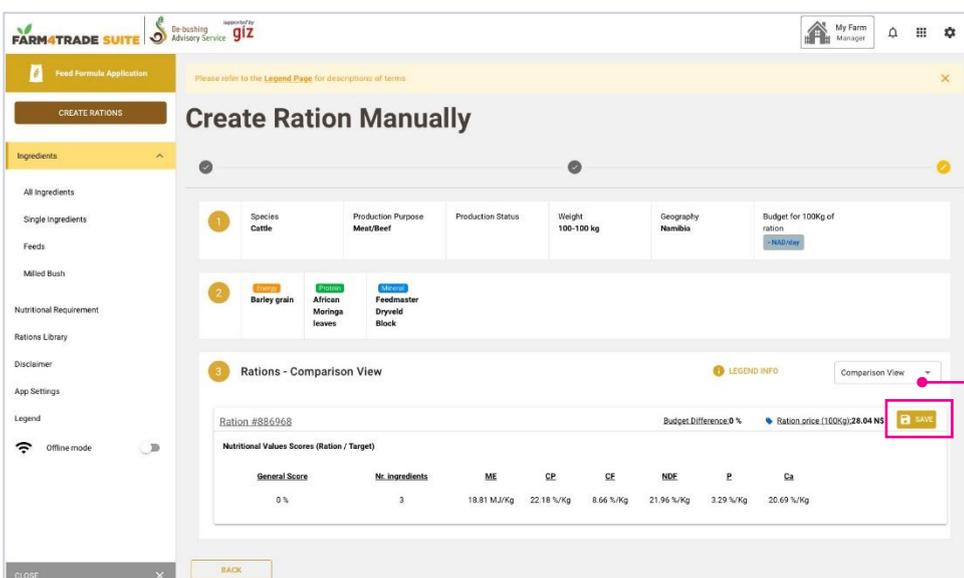
Choose them in the Ingredient Name list and assign them a percentage in the ration in the Ingr.% case that will appear.

Select at least 3 ingredients to be included in the ration. One Protein ingredient and one Energy ingredient are required.

One Fiber ingredient is strongly recommended.

Click on **“NEXT”**.

STEP 3: Compare the proposed rations screen



7. COMPARE THE PROPOSED RATIONS

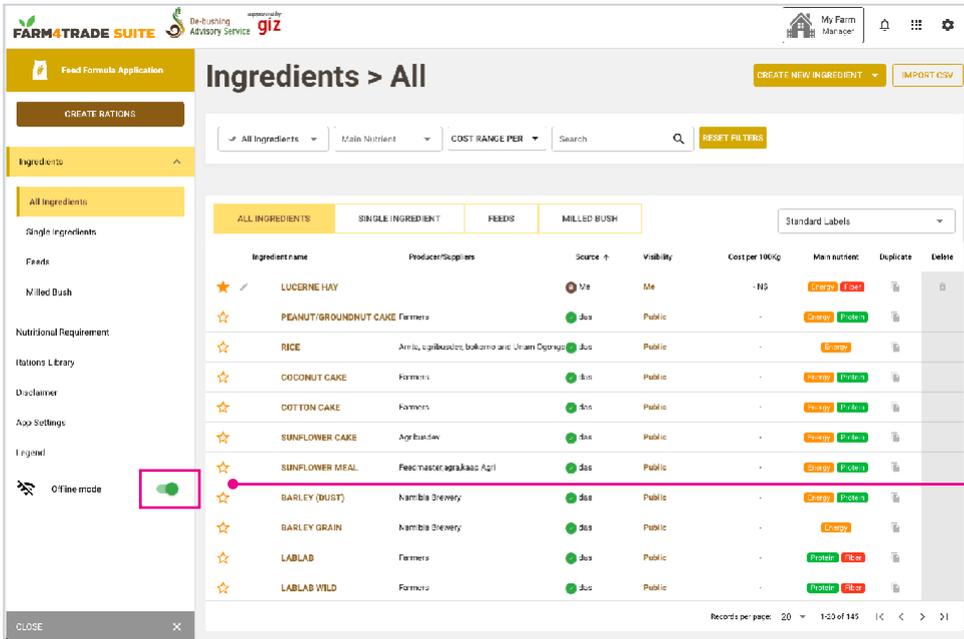
If you are satisfied with the result, click on **“SAVE”**.

If not, go back and change the ingredients or the details of the ration.



07 OFFLINE MODE

Activate the offline mode screen



1. SWITCH TO THE OFF-LINE MODE.

By clicking on the green toggle switch in the app menu.

When you use the app in offline mode, you can access all the features except for the calculation of the rations.

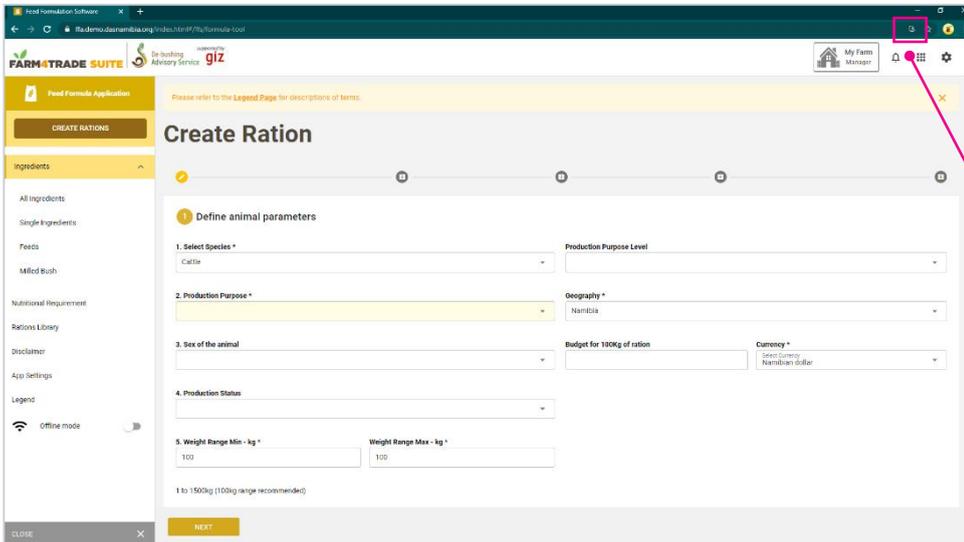
Any information or data that you will add (nutritional requirements, manual rations, ingredients) will be automatically updated when you move back to online mode.

You can also click on the three dots on the top right of the browser and choose the option Add to Home screen on the menu.



08 PC AND MOBILE APP

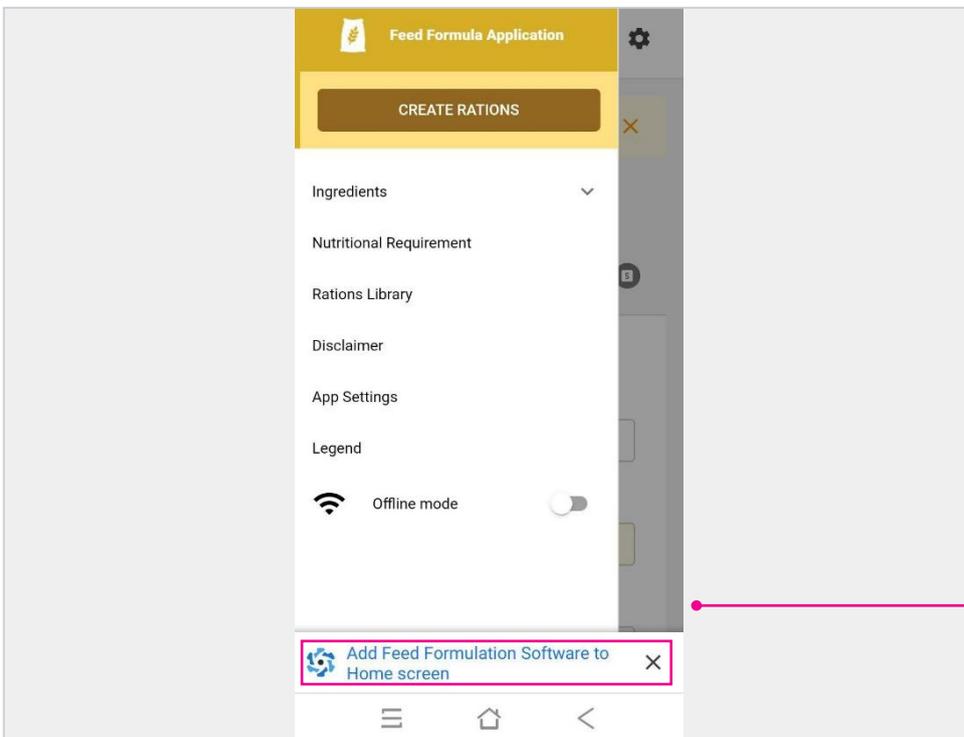
Activate the offline mode screen



1. YOU CAN INSTALL THE APP DIRECTLY ON YOUR LAPTOP.

On PC: Use Chrome to connect to the **Feed Formula Application**. On the navigation bar of the browser, click on the + symbol. A shortcut to the app will be automatically added to your desktop.

Activate the offline mode screen



2. YOU CAN ALSO INSTALL THE APP DIRECTLY ON YOUR ANDROID PHONE.

On Android mobile: at your first connection, a pop up will appear that suggests to add the app to your screen.



09 DISCLAIMER

Warning: Users who created their own formula do so at their own risk.

This app is not intended to replace professional animal nutritionists. It is always advisable to consult a nutritionist for a balanced diet.

Existing verified rations by Farm4Trade, have been acquired by reliable sources and pro-ven safe if applied accurately.



10 SUPPORT

If you still can't find your answer, please email us at: support@farm4trade.com or fill out the contact form at this link: <https://www.farm4trade.com/contact-us>.

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