



User's Manual: TraceThai.com

Developing Blockchain Application to Enhance
Trade and Economy Project: Phase 2.

Trade Policy and Strategy Office (TPSO). Ministry of Commerce.



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By Thammasat University Research and Consultancy Center (TURAC)

Last Updated September 2021

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or scan QR Code.



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User's Manual: TraceThai.com

Blockchain Organic Agricultural Product Traceability System

1. Introduction

TraceThai traceability system can be directly accessed via Web Browser such as Chrome, Internet Explorer, Safari, Firefox etc. without any pre-installed program. The system can automatically adjust the display to be fit on both computer screen and mobile screen. Key information such as producer, certifications, production, and distribution are stored in public blockchain. This technology enhances security and reliability of the system data.

TraceThai is beneficial to two groups of users:

(1) Consumers

- Trace the origin of agricultural products
- Confide that the food has been certified from the reliable Certification Body (CB)

(2) Agriculturists/ Operators

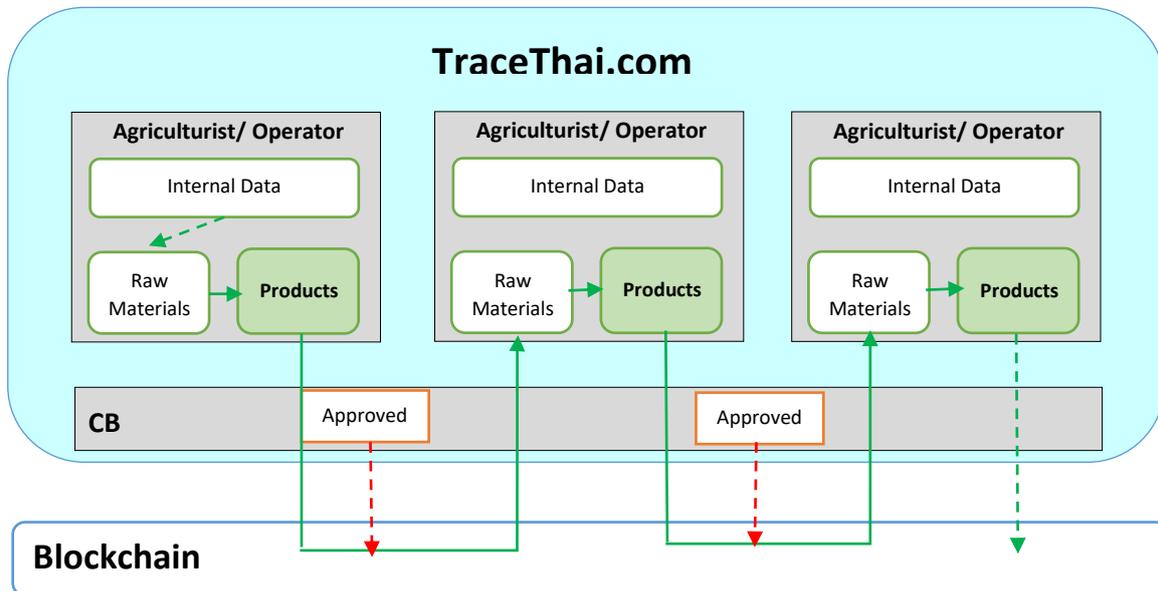
- Record, control and monitor the inventory
- E-Document of certification for trading partners
- Create value added to their products

The consumer can trace the origin of the products by scanning the QR Code label or enter Lot Number into TraceThai.com website. The display will show the path on map where the product came from.

TraceThai shows details of the product path including the operator's address, the shipment date. More details can be searched to reach the certificates related to the product. The agriculturist can arbitrarily show the copy of the organic certificates.

The design concept of TraceThai is very flexible that enables the system to be the platform of any agricultural products. There are three steps based on input-output design. Each user account can enter the data into three steps, input, output, and distribution. A single user account can be separated into various profiles to suit with their activities during the process.

The Design Concept of Input-Output Sequence



The data stored on Blockchain will be kept at minimum to save cost. Only the data necessary to trace the origin of product will be kept on blockchain whereas the rest are kept on local server. The data on blockchain are producer identity, production date, certificate, etc. The internal data for each account that are not related to the distribution are stored on the local server.

Summary of TraceThai Operation

1. The data entry units are independent to one another. The unit's roles can be more than one. Using different profile in one account, the user can enter data on group members, community enterprise, operator, exporter, or importer. The user will be responsible with the activities they are involved.
2. The data entry begins from the input activity, followed by production, and distribution. In case that the input has been forwarded by the producers within the system, the data will be automatically available to the subsequent unit.
3. Enter data related to organic certificate into the system, preferably with the picture of the certificate.
4. Data privacy has been strictly imposed. Only the necessary data for traceability will be shown to the public while trade secret such as Transaction Certificate (TC) or Transaction Document (TD) will be shown only to the designated trading partners.

2. General User (Agriculturist/ Operator)

This user group might be agriculturalist, community enterprise, trader, exporter, or importer. They are referred as ‘Operator’ in this manual. Their functions are mainly similar but differ only on the raw material and the final output.

2.1. How to Log In

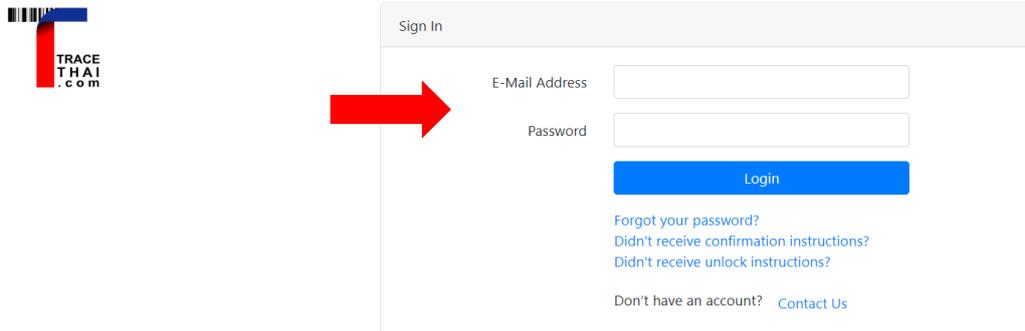
(1) Go to URL: TraceThai.com and click on “Sign In” on the upper right of the screen.



The screenshot shows the TraceThai.com homepage. At the top right, the 'SIGN IN' button is circled in red. Below the navigation bar is a search bar with the text 'ใส่รหัสหน้าบรรจุภัณฑ์ / Enter tracking code'. The main banner features a golden rice field with the text 'Trace Your Product'. Below the banner is a section titled 'ข่าวสาร TRACETHAI' (TRACETHAI News) with three featured items:

- ลงทะเบียนเข้าร่วมสัมมนาออนไลน์** (Online Seminar Registration): ระบบตรวจสอบย้อนกลับเกษตรกรอินทรีย์ วันที่ 9 มิถุนายน พ.ศ. 2563 เวลา 09.00-12.15 น. ณ ห้องสุขุมวิท 1-3 ชั้น 3 โรงแรมแลนด์มาร์ค ถนนสุขุมวิท กรุงเทพฯ ลงทะเบียน [facebook.com/tracethai](https://www.facebook.com/tracethai)
- ลงพื้นที่ เก็บข้อมูล** (Field Data Collection): วิสาหกิจชุมชนเกษตรกรอินทรีย์ทุ่งทองยั่งยืน
- เยี่ยมชมแปลงนาออร์แกนิก** (Organic Rice Field Visit): สุพรรณบุรี/กาญจนบุรี

(2) Enter E-mail and password.



(3) For the first time user, the system shows 'Basic Information' tab. The user enters the description of the unit or create the user profile. After user's information has been recorded, they can enter more data on other tabs.

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members 3) Fields 4) Certificates

Profile Latest Update: 2020-10-04 22:57:33 +0700

Company Name/Entrepreneur Name *

Picture(1) No file chosen Picture(2) No file chosen

Storytelling

File Edit View Insert Format Tools Table

← → Paragraph **B** *I* [List Icons] [Link Icon] [Image Icon] [Video Icon] [Table Icon]

Country: ไทย Thailand Province: กรุงเทพมหานคร Bangkok

Address *

Tel: Fax:

LINE ID: Facebook:

Email * Website:

2.2. User Profile

The user can enter data as a single entrepreneur or the community enterprise. Key data are telephone number, location, picture. All the information in this section will appear when the consumer scan QR code of the traceability system.

How to input Profile.

- (1) Click on “1. Basic Information”.
- (2) Click on “1) Profile”.
- (3) Input the description of the operator.
 - Company Name/ Entrepreneur Name
 - Picture (Click ‘Choose File’ to upload file from the computer. The user can upload only 2 pictures)
 - Storytelling. The user can add more details about the company or products. This information will be shown on the result page when customers trace back with the traceability system.
 - Country
 - Province
 - Mailing Address
 - Telephone Number
 - Fax Number
 - Line ID
 - Facebook
 - E-Mail (The default is the e-mail used to define the user account. This can be changed to be any e-mail that the user would like to show to the consumer.)
 - Website URL
 - Latitude, Longitude (The data can be entered by three methods. First, select from the map. Second, direct entry. Third, use the location detected by the GPS of the smart phone.
 - Select the icon to be shown on the map.
 - Select type of plants/ products.
- (4) Finish the process by ‘Save’.

(1)

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members 3) Fields 4) Certificates

Profile Latest Update: 2020-10-04 22:57:33 +0700

Company Name/Entrepreneur Name *

One Organic Farm

Picture(1) Picture(2)

Choose File No file chosen Choose File No file chosen

Storytelling

File Edit View Insert Format Tools Table

↶ ↷ Paragraph B I [Text Alignment Icons] [List Icons] [Link Icon] [Image Icon] [Video Icon] [Table Icon]

One Organic Farm was formed by a group of 100 farmers in Yasothon province. We produce premium organic rice with IFOAM, USDA and EU organic standards.

Country Province

ไทย Thailand ยโสธร Yasothon

Address *

123 Kudnamsai Sub-District, Khorwang District

Tel Fax

045-123456

LINE ID Facebook

www.facebook.com/Kasetyaso

Email * Website

oneorganicyaso@gmail.com www.oneorganicyaso.com

Location * Latitude,Longitude *

15.426617491141727,104.27978508174422

Icon

- ref
- farmer
- farmer_group
- mill
- packaging
- operator

(4)

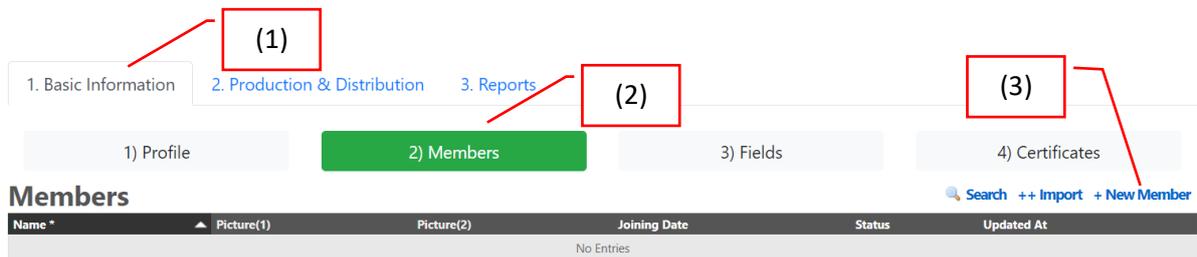
Save

2.3. How to record 'Member'

In case that the user is the representative of the community enterprise that have many members. The user needs to input the data of all members into TraceThai platform to tally the outputs from all members and allows the system to track the lot number production to the original source of production.

How to record 'Member'

- (1) Click on Tab '1. Basic Information'
- (2) Click on '2) Members'
- (3) Click on '+ New Member'



(4) Enter Member details

- Name
- Description/ Remark
- Storytelling. The user can add more details about the member. This information will be shown on the result page when customers scan QR code with the traceability system.
- Picture (Click 'Choose File' to upload file from the computer. The user can upload only 2 pictures)
- Joining Date
- Status (Select from the drop down; Normal/Suspend/Revoke)

(5) Click 'Save'

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile

2) Members

3) Fields

4) Certificates

Add New Member

Member's Name

required

Description

Storytelling

File Edit View Insert Format Tools Table

Paragraph B I [List Icons] [Link Icons] [Table Icon]

P

POWERED BY TINY

Picture(1)

Choose File No file chosen

Picture(2)

Choose File No file chosen

Joining Date

dd-----yyyy



(5)

Status

Normal

Save

Cancel

- (6) The system shows the table of member list. If the user wants to add more member, click '+New Member' again and repeat (4)-(5).
- (7) The user can update member data any time by clicking 'Edit' on the member's row.
- (8) Click 'Delete' if the user wants to remove the member out of the group.

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile

2) Members

3) Fields

4) Certificates

Members

Search ++ Import + New Member

Name *	Picture(1)	Picture(2)	Joining Date	Status	Updated At	
Mr.Boonma Jangsuk	farmer.jpg		01-Jan-2017	Normal	Sat, 3 Oct 2020 11:55:39 +0700	Detail Edit Delete
Mr.Roongroj Kladee			09-Jan-2019	Normal	Sat, 3 Oct 2020 12:00:58 +0700	Detail Edit Delete

(9) Click 'Detail' on any specific member will show detail of that member.

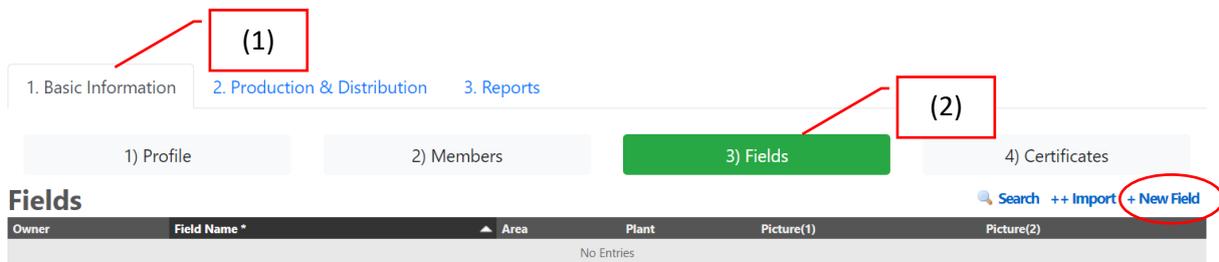


2.4. How to input 'Field'

'Field' data will be linked to the member in 2.3 in which one member can own more than one field. It is obligation to link the farm to its owner whose membership has already been recorded.

How to input 'Field'

- (1) Click on '1. Basic Information'
- (2) Click on '3) Fields'
- (3) Click on '+ New Field'

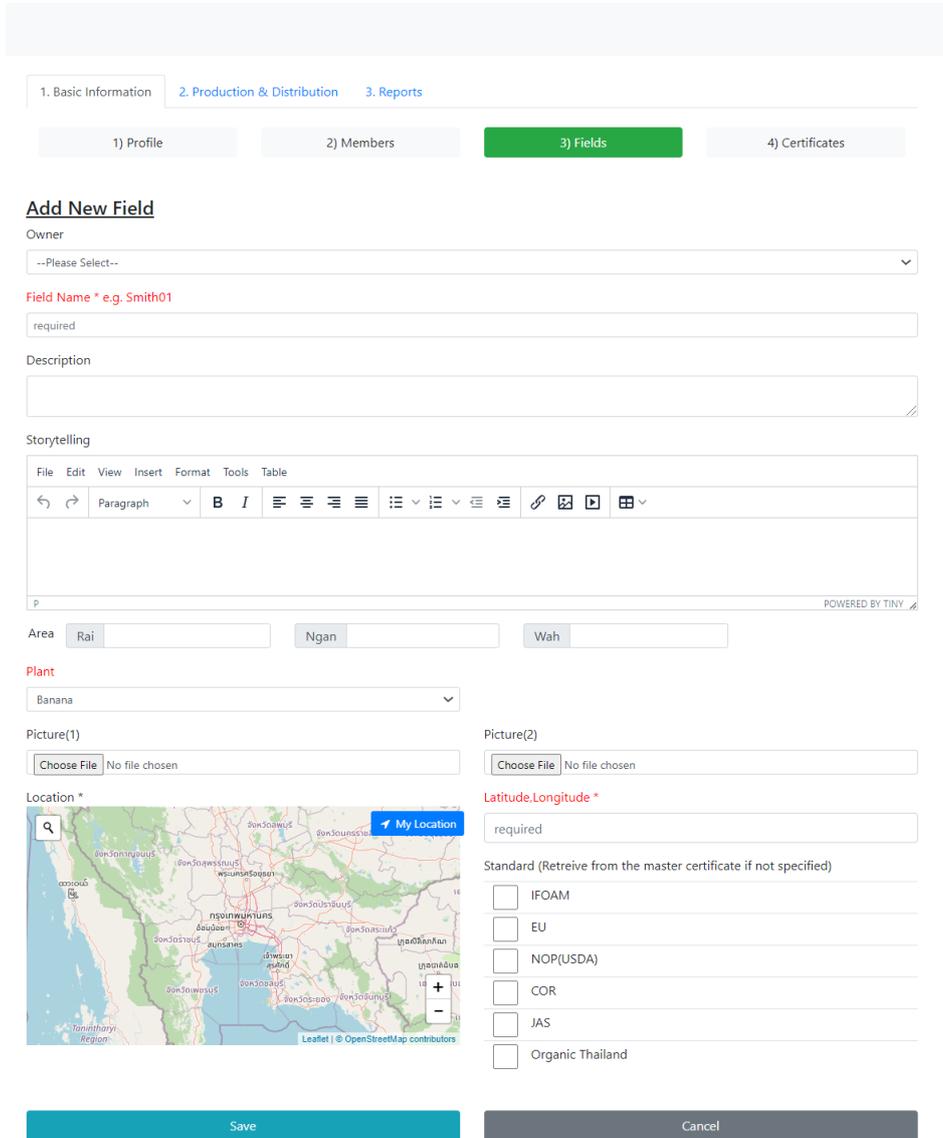


(4) Input details of the field

- Owner
- Field Name
- Description/ Note
- Storytelling. This information will be shown on the result page when customers scan QR code with the traceability system.
- Area
- Plant
- Picture (Click 'Choose File' to upload file from the computer. The user can upload only 2 pictures)
- Location (Latitude, Longitude)

- Organic Standard (If not select, the system will use standard data that enter in Certificate Menu)

(5) Click 'Save'



1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members 3) Fields 4) Certificates

Add New Field

Owner
--Please Select--

Field Name * e.g. Smith01
required

Description

Storytelling

File Edit View Insert Format Tools Table

← → Paragraph B I [List Icons] [Link Icon] [Image Icon] [Table Icon]

Area Rai Ngan Wah

Plant
Banana

Picture(1) Choose File No file chosen

Picture(2) Choose File No file chosen

Location * [Map] My Location

Latitude, Longitude *
required

Standard (Retrieve from the master certificate if not specified)

IFOAM
 EU
 NOP(USDA)
 COR
 JAS
 Organic Thailand

Save Cancel

(6) The system shows the farm list. The user can add more farm by clicking on '+ New field' and repeat step (4)-(5).

(7) The user can update by 'Edit' on the specific field.

(8) The field can be removed by 'Delete'.

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members **3) Fields** 4) Certificates

Fields Search ++ Import + New Field

Owner	Field Name *	Area	Plant	Picture(1)	Picture(2)	
Mr.Boonma Jangsuk	Boonma01	3-0-100	Mali Nil Surin Organic Rice	157603_2.jpg		Detail Edit Delete
Mr.Boonma Jangsuk	Boonma02	2-2-0	RD15 Organic Rice			Detail Edit Delete
Mr.Roongroj Kladee	Roong01	1-0-0	RD15 Organic Rice	157607_3.jpg		Detail Edit Delete

(9) Click 'Detail' on any specific field will show detail of the field.

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members **3) Fields** 4) Certificates

Fields Search ++ Import + New Field

Boonma01 x

Owner: **Mr.Boonma Jangsuk**

Field Name *: **Boonma01**

Description: **Mali Nil Surin Organic Rice Field. Start planting on August 10, 2020.**

Area: **3-0-100**

Plant: **Mali Nil Surin Organic Rice**

IFOAM:

EU:

NOP(USDA):

COR:

JAS:

Organic Thailand:

Lat,Lng: **15.501325828252595,104.29046630859376**

Picture(1): [157603_2.jpg](#)

Picture(2):

Active status:

Updated at: **Sat, 3 Oct 2020 12:18:41 +0700**

[Close](#)

2.5. How to input 'Certificate'

The Certification Menu allows user to input 'Master Certificate' of the operator. This certificate certifies all plants grown by all members. The certificate ensures the consumer that all process is complied to the organic standard or GI standard. Once the certificate data is input into the system, there will be three level of verification.

Level 1 Self verified by the user

Level 2 TraceThai admin verifies based on the public data shown by the certification body (CB). In case GI standard, admin will verify data from Department of Intellectual Property (DIP)'s database.

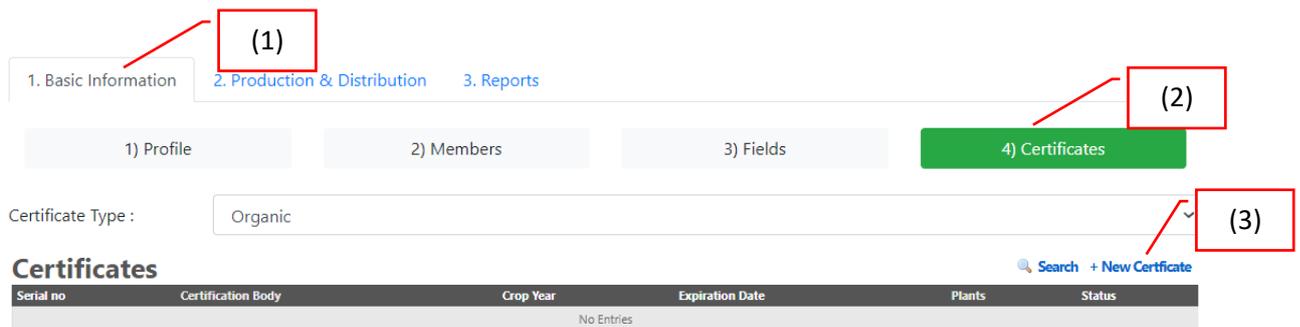
Level 3 CB or DIP who issues the certificate endorses the certificate through e-mail sent by the system.

GI Certificate is valid for two years. The master organic certificate lasts for one year. Therefore, the user needs to re-enter organic certificate data once a year. TraceThai platform will notify the user by e-mail 3 months before the current certificate expires. The user needs to contact CB to certify the coming crop before the current certificate expires.

2.5.1. Organic Standard

How to input 'Organic Certificate'

- (1) Click on '1. Basic Information'
- (2) Click on '4) Certificates'. The default page of Certificates menu will be organic standard.
- (3) Click on '+ New Certificate'



The screenshot shows the TraceThai user interface. At the top, there are three tabs: '1. Basic Information', '2. Production & Distribution', and '3. Reports'. Below these are four menu items: '1) Profile', '2) Members', '3) Fields', and '4) Certificates'. The '4) Certificates' menu item is highlighted in green. Below the menu items, there is a 'Certificate Type' dropdown menu set to 'Organic'. To the right of the dropdown menu is a '+ New Certificate' button. A table titled 'Certificates' is visible at the bottom, with columns for 'Serial no', 'Certification Body', 'Crop Year', 'Expiration Date', 'Plants', and 'Status'. The table currently shows 'No Entries'.

(4) Input details of the organic certificate

- Serial Number of Certificate
- Certification Body (CB)
- Crop Year
- Upload certificate file (.jpg, .png, or .pdf)
- Issuance Date/ Expiration Date
- Plants certified by CB
- Estimated Output
- Standards i.e. IFOAM, EU/USDA/COR/JAS or Organic Thailand

(5) Click 'Save'

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members 3) Fields **4) Certificates**

Add New Certificate

Serial No. *
required

Crop Year

Issuance Date *
dd-----yyyy

Plants *

Plant	Expected Weight (kg)
<input type="checkbox"/> Banana	
<input type="checkbox"/> RD15 Organic Rice	
<input type="checkbox"/> RD43 Organic Rice	
<input type="checkbox"/> Jasmine Organic Rice	
<input type="checkbox"/> Chai Nat 1	
<input type="checkbox"/> RD69 (Tubtim Chumphae) Organic Rice	
<input type="checkbox"/> PinKaset Organic Rice	
<input type="checkbox"/> Black Mali Nong Khai Organic Rice	
<input type="checkbox"/> Mali Nil Surin Organic Rice	
<input type="checkbox"/> Thai Pathumthani Fragrant Rice	
<input type="checkbox"/> Hom Pathum Thep Organic Rice	
<input type="checkbox"/> Red Hommali Organic Rice	
<input type="checkbox"/> Khao' Jow Hawm Suphan Buri	
<input type="checkbox"/> RD6 Glutinous Rice	
<input type="checkbox"/> Riceberry Organic Rice	
<input type="checkbox"/> Organic Black Bean	
<input type="checkbox"/> Organic Tiger Peanut	
<input type="checkbox"/> Organic Mung Bean	
<input type="checkbox"/> Organic Soy Bean	
<input type="checkbox"/> Mixed	
<input type="checkbox"/> Spinach	
<input type="checkbox"/> Pumpkin	

Certification Body *
Organic Agriculture Certification Thailand (ACT)

Certificate File(Image or Pdf)
Choose File No file chosen

Expiration Date *
dd-----yyyy

Standards *

- IFOAM
- EU
- NOP(USDA)
- COR
- JAS
- Organic Thailand

Save **Cancel**

- (6) The system shows the certification list. The user can add more certificate by clicking on '+ New Certificate' and repeat step (4)-(5).
- (7) The user can 'Edit' the information in case errors happen as long as there is no verification by CB or TraceThai administrator. The certificate can be removed by clicking 'Delete'. Please note that once the certificate has been referred in any production or distribution, the user is not allowed to edit any data of the certificate. This is to guarantee the integrity of the system.

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members 3) Fields **4) Certificates**

Certificates

Search + New Certificate

Serial no	Certification Body	Crop Year	Expiration Date	Plants	Status	
C040/63	สำนักงานมาตรฐานเกษตรอินทรีย์ (มกท) <i>Organic Agriculture Certification Thailand (ACT)</i>	2020	28-Feb-2021	RD15 Organic Rice, RD43 Organic Rice, Black Mali Nong Khai Organic Rice, ... (6)	Pending	Detail Edit Delete

- (8) Click 'Detail' on any specific certificate will show detail of the certificate.

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members 3) Fields **4) Certificates**

Certificates

Search + New Certificate

#<Certificate:0x00007fe19b6bd238>

Serial no: **C040/63**

Certification Body: **สำนักงานมาตรฐานเกษตรอินทรีย์ (มกท) *Organic Agriculture Certification Thailand (ACT)***

Crop Year: **2020**

Issuance Date: **01-Mar-2020**

Expiration Date: **28-Feb-2021**

Plant	Expected Weight (kg)	Recorded Weight (kg)
RD15 Organic Rice		0.0
RD43 Organic Rice		0.0
Black Mali Nong Khai Organic Rice		0.0
Mali Nil Surin Organic Rice		0.0
Red Hommali Organic Rice		0.0
Riceberry Organic Rice		0.0

IFOAM:

EU:

NOP(USDA):

COR:

JAS:

Organic Thailand:

Certificate:

Active status:

Status: **Pending**

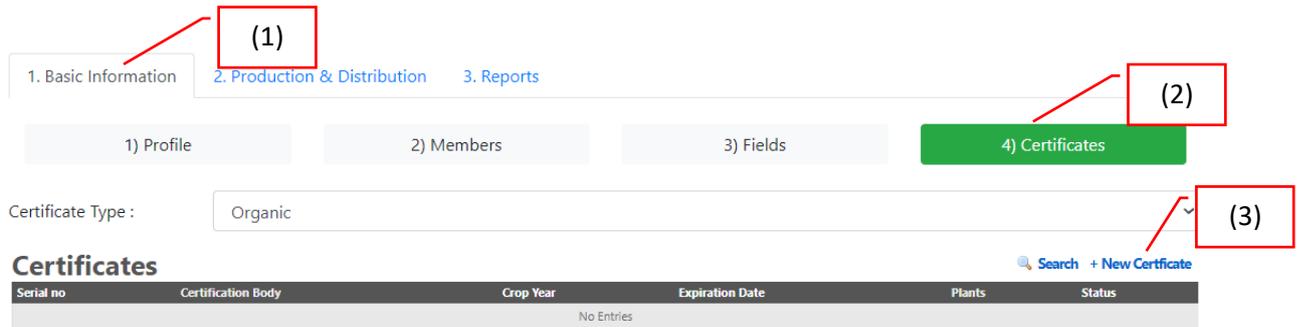
Updated at: **Sat, 3 Oct 2020 12:28:41 +0700**

[Close](#)

2.5.2. GI Standard

How to input 'GI Certificate'

- (1) Click on '1. Basic Information'
- (2) Click on '4) Certificates'.
- (3) Select 'GI' certificate type.
- (4) Click on '+ New Certificate'



The screenshot shows the TraceThai.com user interface. At the top, there are three tabs: '1. Basic Information', '2. Production & Distribution', and '3. Reports'. Below these are four buttons: '1) Profile', '2) Members', '3) Fields', and '4) Certificates'. The '4) Certificates' button is highlighted in green. Below the buttons, there is a 'Certificate Type' dropdown menu with 'Organic' selected. A search bar and a '+ New Certificate' button are also visible. At the bottom, there is a table header for 'Certificates' with columns: 'Serial no', 'Certification Body', 'Crop Year', 'Expiration Date', 'Plants', and 'Status'. The table currently shows 'No Entries'.

- (5) Input details of the organic certificate
 - Registration Number
 - Registration Product Name (Thai/ English)
 - Serial No.
 - Order No.
 - Certification Body (CB)
 - Upload certificate file (.jpg, .png, or .pdf)
 - Issuance Date/ Expiration Date
 - Plants certified by CB
- (6) Click 'Save'

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile

2) Members

3) Fields

4) Certificates

Certificate Type :

GI

Add GI Certificate

Registration No. *

ชื่อผลิตภัณฑ์ *

เช่น ข้าวสังข์หยดพัทลุง

Registration Name *

e.g. Sangyod Muang Phatthalung Rice

Serial No. *

Order No. *

Certification Body *

คณะกรรมการจังหวัด

Certificate File (Image or PDF)

Choose File No file chosen

Issuance Date

dd----yyyy

Expiration Date

dd----yyyy

Plants *

Plant

[ข้าว] ข้าวขาวดอกมะลิ 105

[ข้าว] ข้าวชัยนาท 1

[ข้าว] ข้าวทับทิมชุมแพ

[ข้าว] ข้าวปากอำมิล

[ข้าว] ข้าวปิ่นเกษตร

[ข้าว] ข้าวผสม

[ข้าว] ข้าวมะลิตำหนองคายน

[ข้าว] ข้าวมะลินิลสุรินทร์

[ข้าว] ข้าวสังข์หยดเมืองพัทลุง

[ข้าว] ข้าวสามสี

[ข้าว] ข้าวหอมนิล

[ข้าว] ข้าวหอมปทุม

[ข้าว] ข้าวหอมปทุมเทพ

[ข้าว] ข้าวหอมมะลิศรีสัสดิ

[ข้าว] ข้าวหอมมะลิทุ่งกุลาร่องไห้

[ข้าว] ข้าวหอมมะลิแดง

[ข้าว] ข้าวหอมสุพรรณบุรี

[ข้าว] ข้าวแจ็กเขยเส้าไห้สระบุรี

[ข้าว] ข้าวเหนียวกข. 6

[ข้าว] ข้าวเหนียวดำ

[ข้าว] ข้าวไรซ์เบอร์รี่

บันทึก Save

ยกเลิก Cancel

(6)

- (7) The system shows the GI certification list. The user can add more certificate by clicking on '+ New Certificate' and repeat step (5)-(6).
- (8) Like organic standard, the user can 'Edit' GI standard data in case errors happen as long as there is no verification by CB or TraceThai administrator. The certificate can be removed by clicking 'Delete'. Please note that once the certificate has been referred in any production or distribution, the user is not allowed to edit any data of the certificate. This is to guarantee the integrity of the system.

1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members 3) Fields **4) Certificates**

Certificate Type :

GI Certificate

Search **+ New Certificate**

Registration No.	ชื่อผลิตภัณฑ์	Registration Name	Serial No.	Order No.	Certification Body	Expiration Date	Plants	Status	Usage Status	
สนข50100022	ข้าวหอมมะลิทุ่งกุลาร้องไห้	Thung Kula Rong-Hai Hom Mali Rice	4779/2563	630223SRN0008	คณะกรรมการจังหวัด Provincial Committee	28-Jan-2022	[Rices] Thung Kula Rong-Hai Hom Mali Rice	Pending	<input checked="" type="checkbox"/>	Detail Delete ▶▶

- (9) Click 'Detail' on any specific certificate will show detail of the certificate.

Certificate Type :

GI Certificate

Search **+ New Certificate**

Registration No.	ชื่อผลิตภัณฑ์	Registration Name	Serial No.	Order No.	Certification Body	Expiration Date	Plants	Status	Usage Status						
<p>#<Certificate:0x00007f662197a2c8></p> <p>SecureCode: iHjUSxjWExPrFE3B</p> <p>Registration No.: สนข50100022</p> <p>ชื่อผลิตภัณฑ์: ข้าวหอมมะลิทุ่งกุลาร้องไห้</p> <p>Registration Name: Thung Kula Rong-Hai Hom Mali Rice</p> <p>Serial No.: 4779/2563</p> <p>Order No.: 630223SRN0008</p> <p>Certification Body: คณะกรรมการจังหวัด Provincial Committee</p> <p>Issuance Date: 29-Jan-2020</p> <p>Expiration Date: 28-Jan-2022</p> <table border="1"> <thead> <tr> <th>Plant</th> <th>Expected Weight (kg)</th> <th>Recorded Weight (kg)</th> </tr> </thead> <tbody> <tr> <td>Thung Kula Rong-Hai Hom Mali Rice</td> <td></td> <td>0.0</td> </tr> </tbody> </table> <p>Certificate</p> <p>Active status: <input checked="" type="checkbox"/></p> <p>Status: Pending</p> <p>Usage Status: <input checked="" type="checkbox"/></p> <p>Updated at: 05Aug2021 10:43:56 -0700</p> <p>Close</p>										Plant	Expected Weight (kg)	Recorded Weight (kg)	Thung Kula Rong-Hai Hom Mali Rice		0.0
Plant	Expected Weight (kg)	Recorded Weight (kg)													
Thung Kula Rong-Hai Hom Mali Rice		0.0													

2.6. How to input 'Raw Material'

Raw material in TraceThai platform can be anything depending on the production process. For example, the community enterprise who compiles materials or products from members. The raw material in this case might mean the paddy rice. If the user is packager, the raw material might be the rice to be packed for distribution.

There are two types of the raw material. First, the raw material from the internal process. Second, the raw material obtained from different user's account.

For the first type, the data entry process will be as follows:

- (1) Click on tab '2. Production and Distribution'
- (2) Click on '1) Raw Materials'
- (3) Click '+ New Material'



(4) Input raw material details

- Internal Lot Number
- Field that produces raw material
- Plant type (Default data was automatically extracted from the certificate that ties with this field, the user just selects the plant from the list. However, the user might select other plants out of the list in case that the plant declared earlier has been damaged and the producer switch to grow other plant without prior notice.)
- Receiving Date
- Expiration Date
- Format of the material such as paddy rice, rice, coarse rice, husked rice, rice bran.
- Packaging such as big bag, box, bag, casket
- Size (in Kilogram) per Package
- Number of Packages
- Total Weight (in Kilogram)

Please note that the last three input are related since

$\text{Total Weight} = \text{Number of Packages} \times \text{Size per Packages.}$

Therefore, the user can input any two fields, and the rest shall be auto filled by the system.

(5) Select organic certificate and/ or GI certificate from drop-down menu.

New Material Template: -Select form existings- ▾

Internal Lot No.
TKR2/2564

Field * Plant *
[นาขมบุญนา แฉ่งสุข] บุญนา01 [Rices] Thung Kula Rong-Hai Hom Mali Rice

Receiving Date * Expiration Date
05-Sep-2021 dd- ---- -yyyy

Format of Material * Packaging
Paddy sack

Package Size (kg) * No. of Unit *
50 4

Total Weight (kg) * Description
200.000

Certificate *
C043/64 [Organic Agriculture Certification Thailand (ACT)] [05-Mar-2021 to 04-Mar-2022] [RD15 Organic Rice,RD43 Organic Rice,Jasmine Organic Rice,Thung Kula Rong-Hai] ▾

<input checked="" type="checkbox"/>	IFOAM
<input checked="" type="checkbox"/>	EU
<input checked="" type="checkbox"/>	NOP(USDA)
<input checked="" type="checkbox"/>	COR
<input type="checkbox"/>	JAS
<input type="checkbox"/>	Organic Thailand
<input type="checkbox"/>	COSMOS

GI Certificate
[Round 630223SRN0008 Registration No. สรข50100022] 4779/2563 [Thung Kula Rong-Hai Hom Mali Rice] ▾

Save **Cancel**

(6) Click 'Save'

(7) Once the input is complete, the system presents the list of raw material as follows:

- Lot Number is auto generated to be used for traceability
- Internal Lot Number for internal reference
- Receiving Date
- Source (There are two types; 'Self-Produced' means the data is entered by the user, 'Obtained' means the raw material has been distributed to the user from other users in TraceThai platform.
- Plant Type
- Total Weight (in Kgs.)
- Number of Units

- Outstanding Units (If the raw material has already been used up, the number will be zero).
- Production Lot Number (refer to the production lot number that has used this raw material).
- Certificate. The user can click 'View' to see the master organic certificate.
- GI. By clicking 'View', GI certificate will be shown.

1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials 2) Outputs

Raw Materials + New Material Produce Export Search

Lot No.	Internal Lot No.	Receiving Date	Source	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Production Lot No.	Certificate	GI		
<input type="checkbox"/>	0002A5300002	TKR2/2564	05-Sep-2021	Self-Produced	[Rices] Thung Kula Rong-Hai Hom Mali Rice	200.000	4.000	4.000	-	View	View	Detail Delete Reject

- (8) The user can click '+ New Material' to add more input and repeat process (4) to (5). The system will support the user by building the template to reduce time to input the data and make it convenient for the user to re-enter data.

1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials 2) Outputs

New Material Template: -Select form existings- >

Internal Lot No. -Select form existings-
Optional Boonma02

Field * Boonma01 Plant * Mali Nil Surin Organic Rice

Receiving Date * 03-Oct-2020 Expiration Date dd----yyyy

Format of Material * Paddy Packaging เข้ม ดุง กระสอบ กล้อง

- (9) The pop-up window will appear for the user to confirm.
- (10) The system will extract stored data filtered by user-chosen template. The user just only edits the data that changes from previous record such as receiving date, expiration date, total unit, etc.
- (11) The system will not allow the user to edit the record that is already stored on blockchain. If there is any error during data entry, the user needs to delete the whole record and begin from '+New Material.'
- (12) The user can click 'Detail' to see all the data or click 'delete' to erase the record.

1) Raw Materials

2) Outputs

Raw Materials

[+ New Material](#) [Produce](#) [Export](#) [Search](#)

Lot No.	Internal Lot No.	Receiving Date	Source	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Production Lot No.	Certificate	GI	
<input type="checkbox"/> 0002A5300002	TKR2/2564	05-Sep-2021	Self-Produced	[Rices] Thung Kula Rong-Hai Hom Mali Rice	200.000	4.000	4.000	-	View	View	Detail Delete Reject



Lot No.	Internal Lot No.	Receiving Date	Source	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Production Lot No.	Certificate	GI	
TKR2/2564											
Name/Brand	-										
Description	-										
Lot No.	0002A5300002										
Internal Lot No.	TKR2/2564										
Receiving Date	05-Sep-2021										
Expiration Date	-										
Source	Self-Produced										
Field	[นายบุญมา แจ่มสุข] บุญมา01										
Seller	-										
Transaction Certificate	-										
Qr	-										
Plant	[Rices] Thung Kula Rong-Hai Hom Mali Rice										
Format of Material	Paddy										
Packaging	กระสอบ										
Package Size (kg)	50.000										
Total Weight (kg)	200.000										
No. of Units	4.000										
Outstanding Units	4.000										
IPOAM	<input checked="" type="checkbox"/>										
EU	<input checked="" type="checkbox"/>										
NOP(USDA)	<input checked="" type="checkbox"/>										
COR	<input checked="" type="checkbox"/>										
JAS	<input type="checkbox"/>										
Organic Thailand	<input type="checkbox"/>										
COSMOS	<input type="checkbox"/>										
Production Lot No.	-										
Certificate	View										
GI	View										
Active status	<input checked="" type="checkbox"/>										
Updated at	05 Sep 2021 14:45:49 +0700										
M	<input type="checkbox"/>										
Close											

Note

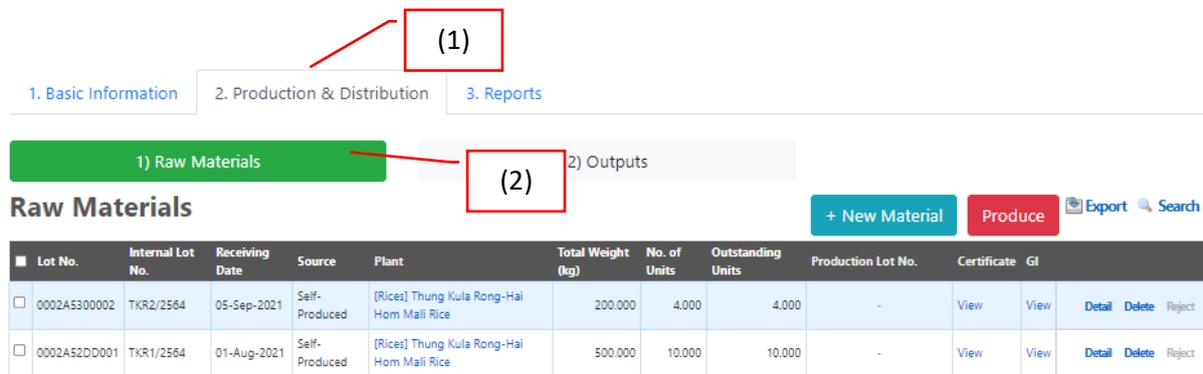
In case that the user cannot add more data after recording the raw material, the error might come from various reasons. First, total weight of raw material is greater than the total weight specified in the certificate. Second, the receiving date of the raw material is later than the expiration date of related certificate. The system shall notify the user by the red tab on the screen.

2.7. How to input 'Production'

Any production process shall begin from obtaining raw material and then produce. This section will elaborate how to turn raw material into output.

How to input 'Production'

- (1) Click on '2. Production and Distribution'
- (2) Click on '1) Raw Materials'
- (3) The system shows the list of all materials available for production. The data include those that has been recorded by the user and those sent from other users in TraceThai platform. These two types can be differentiated by looking at column 'Source'.



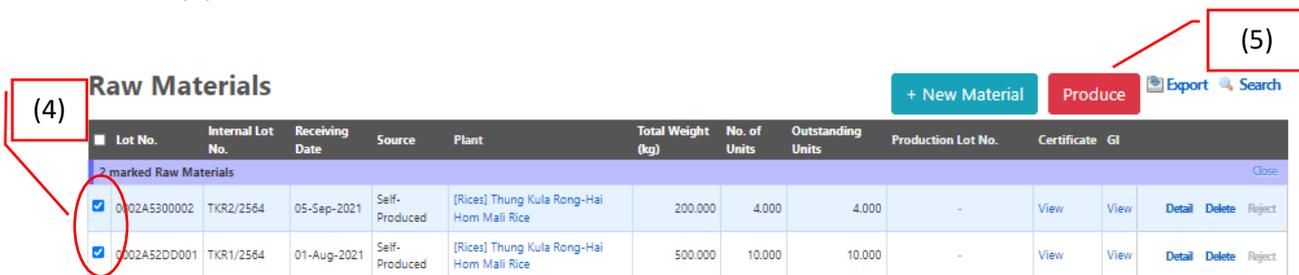
1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials 2) Outputs

Raw Materials + New Material Produce Export Search

Lot No.	Internal Lot No.	Receiving Date	Source	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Production Lot No.	Certificate	GI		
<input type="checkbox"/>	0002A5300002	TKR2/2564	05-Sep-2021	Self-Produced	[Rices] Thung Kula Rong-Hai Hom Mali Rice	200.000	4.000	4.000	-	View	View	Detail Delete Reject
<input type="checkbox"/>	0002A52DD001	TKR1/2564	01-Aug-2021	Self-Produced	[Rices] Thung Kula Rong-Hai Hom Mali Rice	500.000	10.000	10.000	-	View	View	Detail Delete Reject

- (4) The user selects raw materials from the list by checking the boxes in front of the material.
- (5) Then click 'Produce'.



Raw Materials + New Material Produce Export Search

Lot No.	Internal Lot No.	Receiving Date	Source	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Production Lot No.	Certificate	GI		
<input checked="" type="checkbox"/>	0002A5300002	TKR2/2564	05-Sep-2021	Self-Produced	[Rices] Thung Kula Rong-Hai Hom Mali Rice	200.000	4.000	4.000	-	View	View	Detail Delete Reject
<input checked="" type="checkbox"/>	0002A52DD001	TKR1/2564	01-Aug-2021	Self-Produced	[Rices] Thung Kula Rong-Hai Hom Mali Rice	500.000	10.000	10.000	-	View	View	Detail Delete Reject

(6) Input the production details

- Select organic certificate and/ or GI certificate.
- Raw Material (The system will present the selected material from previous step so the user can input the number of units that has been used in the current production. The default number is the outstanding number of units in the system. The system recognizes weights involved and it will automatically update weights of all material in each production.)
- Production Date
- Total Weight of Raw Material (This is auto calculated from the system so the user can verify the number before proceeding to the next step.)

- Outputs. Each output requires data on:
 - Internal Lot Number
 - Output Name or Brand Name
 - Description
 - Expiration Date
 - Format of output such as coarse rice, husked rice, etc.
 - Packaging such as big bag, box, bag, casket
 - Size (in Kilogram) per Package
 - Number of Packages
 - Total Weight (in Kilogram) Show Suppliers/ Show Clients. The user can choose whether to present the ‘source of raw material’ or ‘the customer’ data in the traceability platform. If the user unchecks any box of the data item, the information of that item will not be presented to the consumers when they scan the QR code.

(7) In some case, there might be multiple types of output. For example, the milling of paddy rice will yield rice, rice bran, and rice hull. The system allows the user to define up to four distinctive outputs in one production. The user can input data by clicking on tab ‘Output (2)’ ‘Output (3)’ and ‘Output (4)’, respectively.

Produce Template: -Select from existings-

Certificate *

C043/64 [Organic Agriculture Certification Thailand (ACT)] [05-Mar-2021 to 04-Mar-2022] [RD15 Organic Rice,RD43 Organic Rice,Jasmine Organic Rice,Thung Kula Rong-Hai] ▼

IFOAM

EU

NOP(USDA)

COR

GI Certificate

[Round 630223SRN0008 Registration No. สร50100022] 4779/2563 [ข้าวหอมมะลิทุ่งกุลาร่องไห] ▼

Raw Materials *

Lot No.	Plant	Outstanding Weight (kg)	Unit Size (kg)	Outstanding Unit	No. of unit used
TKR1/2564	[Rices] Thung Kula Rong-Hai Hom Mali Rice	500.0000	50.00	10.00	2.0
TKR2/2564	[Rices] Thung Kula Rong-Hai Hom Mali Rice	200.0000	50.00	4.00	4.0

Production Date *

05-Oct-2021 📅

Total Raw Material Weight (kg)

300.000

Output 1 Output * Output (2) Output (3) Output (4)

Internal Lot No.	Output Name/Brand	Description
TRKSN051064	Rungrueng-KulaRongHai	Optional

Expiration Date * **Format of Output *** **Packaging** **Package Size (kg) ***

05-Oct-2023 📅 Brown Rice ▼ Sack 20

No. of Units * **Total Weight (kg) *** **Show Suppliers *** **Show Clients ***

8 160.000

บันทึก Save
Cancel

The system calculates total raw material weight automatically from the total weight of all inputs

Production Date * 05-Oct-2021 Total Raw Material Weight (kg) 300.000

Output 2 Output * Output (2) Output (3) Output (4)

Internal Lot No. TRKSA051064	Output Name/Brand ข้าวหอมมะลิทุ่งกุล	Description Optional
Expiration Date * 05-Oct-2022	Format of Output * Bran	Packaging sack
No. of Units * 2	Total Weight (kg) * 40.000	Package Size (kg) * 20
Show Suppliers * <input checked="" type="checkbox"/>		Show Clients * <input checked="" type="checkbox"/>

บันทึก Save Cancel

(8) Click 'Save'

(9) The system shows summary data. The user verifies production details and click 'Confirm'. If there is any mistake, click 'Close' and edit data. Then click 'Save' again.

Production Order Confirmation

Certificate * C043/64 [Organic Agriculture Certification Thailand (ACT)] [05-Mar-2021 to 04-Mar-2022] [RD15 Organic Rice,RD43 Organic Rice,Jasmine Organic Rice,Thung Kula Rong-Hai Hom Mali Rice,Riceberry Organic Rice]

Raw Materials *

Lot No.	Plant	Outstanding Weight (kg)	Unit Size (kg)	Outstanding Unit	No. of unit used	Remains
TKR1/2564	[Rices] Thung Kula Rong-Hai Hom Mali Rice	500.0000	50.00	10.00	2,0	=> 8
TKR2/2564	[Rices] Thung Kula Rong-Hai Hom Mali Rice	200.0000	50.00	4.00	4,0	=> 0

Production Date * 2021-10-05 Total Raw Material Weight (kg) 300.000

Products *

Internal Lot No.	Name/Brand	Expiration Date	Format of Output	Packaging	Package Size (kg)	No. of Units	Total Weight (kg)
TRKSN051064	Rungrueng-KulaRongHai	2023-10-05	Brown Rice	Sack	20	8	160.000
TRKSA051064	ข้าวหอมมะลิทุ่งกุล	2022-10-05	Bran	sack	20	2	40.000

Confirm Close

(10) The data recorded in this process will be presents as a list on '2) Output'

- Product Name/ Brand
- Group of outputs came from the same production.
- Lot Number for the current production that has been auto generated by the system.
- Production Date
- Plant Type

- Total Weight (in Kgs.) of output
- Unit Number
- Outstanding Units (Inventory)
- Certificate (Clicking on 'View' will see the master certificate)
- GI (Clicking on 'View' will see the GI certificate)
- QR consists of QR Code and 'Trace'. The user can click on the QR code icon to get the template of QR Code ready for label printing by printer. If the user clicks 'Trace', the system will show the path of production on the map similar to what the consumers shall see when they scan QR Code.
- Sales Records show reference code when that product was sent to others.

1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials **2) Outputs**

Outputs

[Search](#) [Export](#)

Product Name/Brand	Group	Lot No.	Internal Lot No.	Production Date	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Certificate	GI	QR	Sales Records
ข้าวหอมมะลิทุ่งกุลารุ	4	0002A531E104	TRKSA051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	40,000	2,000	2,000	View	View	Trace	Detail Delete Self/Send
Rungrueng-KulaRongHai	4	0002A531E103	TRKSN051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	160,000	8,000	8,000	View	View	Trace	Detail Delete Self/Send

Code: TRKSN051064

TRACE THAI .COM

[พิมพ์สติ๊กเกอร์ \(1 x 1\)](#)
[พิมพ์สติ๊กเกอร์ \(4 x 10\)](#)

Trace

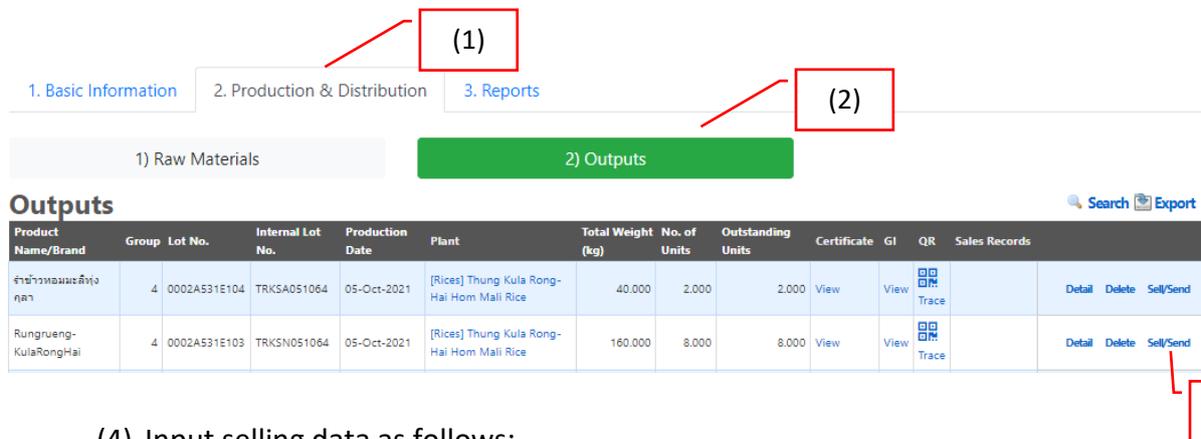
(11) In case that there is any error in data input, the user must remove that output item by clicking 'Delete' before the system allows the user to re-enter.

2.8. How to input 'Distribution'

When the user sells or forwards output to other account, the user must enter data by clicking 'Distribution.' This data will be recorded in blockchain network. The data edit is prohibitive. After the buyer record this transaction, the buyer shall see the output of seller as 'raw material' in the system. In short, the buyer in TraceThai can skip the data entry of raw material if he purchases from another user in the system.

How to input 'Distribution'

- (1) Click on Tab '2. Production & Distribution'
- (2) Click on '2) Outputs'
- (3) The list shows all output that has been produced in previous process. The user checks the box of the item he wants to sell and click 'Sell/ Send' at the end of the row.



(1) (2)

1) Raw Materials 2) Outputs

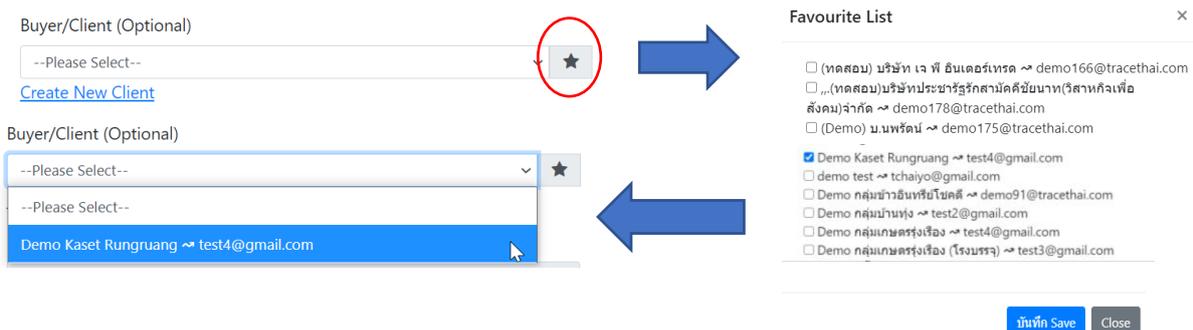
Search Export

Product Name/Brand	Group	Lot No.	Internal Lot No.	Production Date	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Certificate	GI	QR	Sales Records
ข้าวหอมมะลิทุ่งกุล	4	0002A531E104	TRK5A051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	40,000	2,000	2,000	View	View	Trace	Detail Delete Sell/Send
Rungrueng-KulaRongHai	4	0002A531E103	TRKSN051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	160,000	8,000	8,000	View	View	Trace	Detail Delete Sell/Send

(3)

- (4) Input selling data as follows:

- Lot Number
- Reference Number (This means the number of any trade document related to this transaction such as Purchasing Order Number or Bill of Lading Number)
- Selling Date
- Sell To (Name of the customer that the user can select from the list. The user can create the shortcut by selecting several customers from the drop-down list and create the favorite list. To relieve the burden of the seller, he might not need to input detail of the retail transaction.)



Buyer/Client (Optional)

--Please Select--

Create New Client

Buyer/Client (Optional)

--Please Select--

--Please Select--

Demo Kaset Rungruang ~ test4@gmail.com

Favourite List

(ทดสอบ) บริษัท เจ ที อินเทอร์เน็ต ~ demo166@tracethai.com

,, (ทดสอบ) บริษัท ประชากรศึกษา คีชีนาหา (วิสาหกิจเพื่อสังคม) จำกัด ~ demo178@tracethai.com

(Demo) นนพรัตน์ ~ demo175@tracethai.com

Demo Kaset Rungruang ~ test4@gmail.com

demo test ~ tchaiyo@gmail.com

Demo กลุ่มข้าวอินทรีย์โมเดิร์น ~ demo91@tracethai.com

Demo กลุ่มบ้านทุ่ง ~ test2@gmail.com

Demo กลุ่มเกษตรรุ่งเรือง ~ test4@gmail.com

Demo กลุ่มเกษตรรุ่งเรือง (โรงบรรจุ) ~ test3@gmail.com

บันทึก Save Close

- Outstanding Weight
- Selling Weight
- Outstanding Units
- Selling Units
- Upload Transaction Certificate (Optional)

1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials **2) Outputs**

Distribution

Lot No. Reference No.

Selling Date Buyer/Client (Optional) [Create New Client](#)

Outstanding Weight (kg) Selling Weight (kg)

Outstanding Unit (Sack 20.0 kg) Sold Unit (Sack 20.0 kg)

Transaction Certificate No file chosen

Stored on Blockchain **Cancel**

(5) Click 'Stored on Blockchain'

(6) The system will auto-generate the reference number in the sell history.

1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials **2) Outputs**

Outputs

Product Name/Brand	Group	Lot No.	Internal Lot No.	Production Date	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Certificate	GI	QR	Sales Records
ข้าวหอมมะลิทุ่งกุลาร	4	0002A531E104	TRKSA051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	40.000	2.000	2.000	View	View		Detail Delete Sell/Send
Rungrueng-KulaRongHai	4	0002A531E103	TRKSN051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	160.000	8.000	0.000	View	View	IN061064	Detail Delete Sell/Send

(7) If the user clicks on this reference number, the detail of the transaction will be shown.

รหัสอ้างอิง	วันจำหน่าย	ขายให้กับ	ปริมาณรวม (kg)	จำนวนขาย	TC	ผู้ซื้อ/ผู้เสนอสินค้า	QR
IN061064	2021-10-05	Demo กลุ่มเกษตรรุ่งเรือง (โรงบรรจุ)	160.000	8.000	<input type="checkbox"/>		

1 Found

2.9. How to Reject Output

As mentioned in previous section, the output of other users will be recognized and automatically appeared as raw material in the buyer's window. It is possible that the buyer might find that the physical output delivered do not meet the requirement as being agreed upon. The seller can reject the output physically by returning the output to the buyer. In addition, the seller needs to update the system by clicking 'Reject' in this menu. The transaction data on blockchain cannot be edited but the new record will be created on blockchain to create trail that the previous record has been revoked and all outputs are returned to the buyer.

1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials 2) Outputs

Raw Materials + New Material Produce Export Search

Lot No.	Internal Lot No.	Receiving Date	Source	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Production Lot No.	Certificate	GI			
0002A531E103	TRKSN051064	05-Oct-2021	Obtained	[Rices] Thung Kula Rong-Hai Hom Mali Rice	160.000	8.000	8.000	-	View	View	Detail	Delete	Reject

On the seller side, the seller will be notified in 'Sales Records' and the reference number is in red. This signals that the output has been delivered but rejected by the buyer.

1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials 2) Outputs

Outputs Search Export

Product Name/Brand	Group	Lot No.	Internal Lot No.	Production Date	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Certificate	GI	QR	Sales Records			
ข้าวหอมมะลิทุ่งกุลาร	4	0002A531E104	TRKSA051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	40.000	2.000	2.000	View	View	Trace		Detail	Delete	Sell/Send
Rungrueng-KulaRongHai	4	0002A531E103	TRKSN051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	160.000	8.000	0.000	View	View	Trace	IN061064	Detail	Delete	Sell/Send

If the seller clicks on 'Sales Records', the system shows detail of the transaction in which there appears the checked box on 'Rejected by Buyer'. The seller can remove this transaction by clicking 'Delete' at the end of the row. The returned output shall be reverted to the seller inventory waiting to be resold or inspected.

Outputs Search Export

Product Name/Brand	Group	Lot No.	Internal Lot No.	Production Date	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Certificate	GI	QR	Sales Records			
ข้าวหอมมะลิทุ่งกุลาร	4	0002A531E104	TRKSA051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	40.000	2.000	2.000	View	View	Trace		Detail	Delete	Sell/Send
Rungrueng-KulaRongHai	4	0002A531E103	TRKSN051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	160.000	8.000	0.000	View	View	Trace	IN061064	Detail	Delete	Sell/Send

การขายสินค้า for TRKSN051064

รหัสอ้างอิง	วันจำหน่าย	ขายให้กับ	น้ำหนักรวม (kg)	จำนวนขาย	TC	ผู้ซื้อปฏิเสธสินค้า	QR	
IN061064	2021-10-05	Demo กลุ่มเกษตรรุ่งเรือง (โรงเรียน)	160.000	8.000		<input checked="" type="checkbox"/>	Trace	ลบ

1 Found

2.10. How to access QR Code

The user can access to the QR Code in order to print the label from the 'Output' menu.

- (1) Click on '2. Production & Distribution'
- (2) Click on '2) Outputs'
- (3) Click on the QR code icon of the designated production record.

1. Basic Information 2. Production & Distribution 3. Reports

1) Raw Materials 2) Outputs

Outputs

Product Name/Brand	Group	Lot No.	Internal Lot No.	Production Date	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Certificate	GI	QR	Sales Records
ข้าวหอมมะลิทุ่งกุลารุ	4	0002A531E104	TRKSA051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	40,000	2,000	2,000	View	View	QR Trace	Detail Delete Sell/Send
Rungrueng-KulaRongHai	4	0002A531E103	TRKSN051064	05-Oct-2021	[Rices] Thung Kula Rong-Hai Hom Mali Rice	160,000	8,000	8,000	View	View	QR Trace	

- (4) The system will show the QR Code of that production lot such that the user can save the picture from the screen or directly print the label. Please note that TraceThai platform prepares the label sticker based on A4 size sticker.

Code: TRKSN051064

พิมพ์สี่กนก (1 x 1)

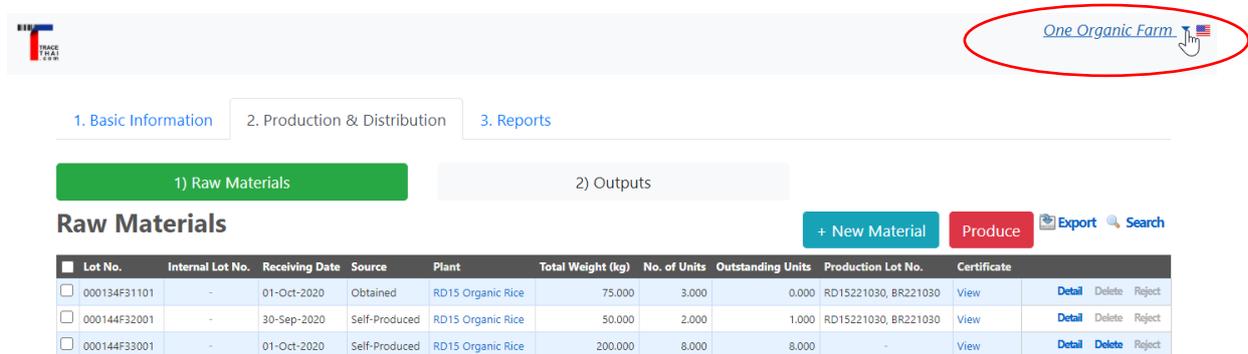
พิมพ์สี่กนก (4 x 10)

2.11. How to create new profile

Each user can create multiple profiles for convenient management. In case of the operator wants to record information of each production unit separately, such as rice milling, packaging. Each production unit can show a separate search location. For example, the operator create 2 profiles, the first one is a rice mill that receives paddy from farmers, The second is a packing house that receive rice from the mill profile and prepare the product for retail sales. When consumer search in the traceability system, the result will be displayed from the mill profile sent to the packing house profile.

How to create new profile

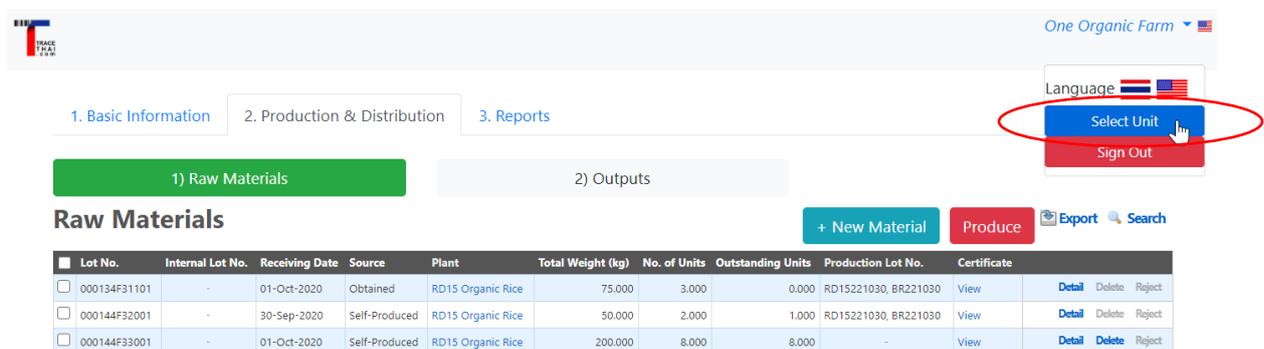
1) Click on “Account Name” in the top right corner of the screen.



The screenshot shows the user interface for 'One Organic Farm'. The account name 'One Organic Farm' is circled in red in the top right corner. Below the account name, there are navigation tabs: '1. Basic Information', '2. Production & Distribution', and '3. Reports'. Under '1. Basic Information', there are sub-tabs: '1) Raw Materials' (highlighted in green) and '2) Outputs'. The 'Raw Materials' section contains a table with columns: Lot No., Internal Lot No., Receiving Date, Source, Plant, Total Weight (kg), No. of Units, Outstanding Units, Production Lot No., and Certificate. The table lists three entries for 'RD15 Organic Rice'.

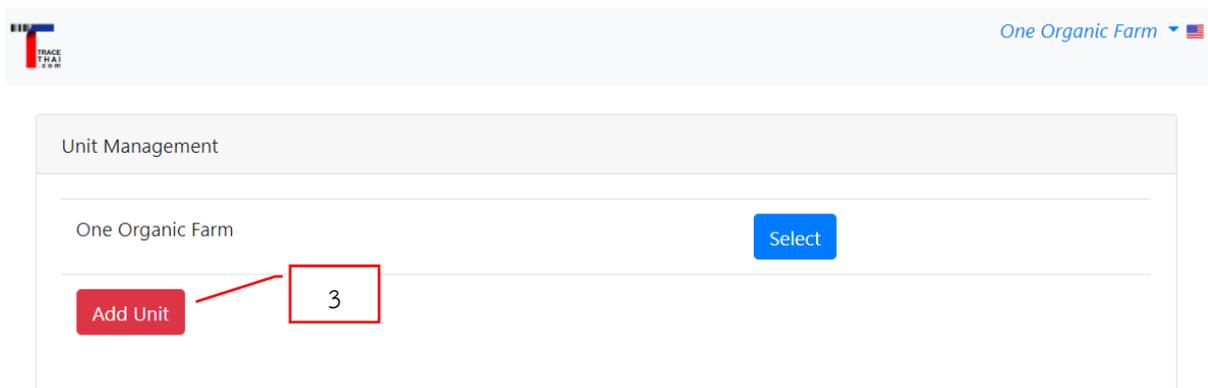
Lot No.	Internal Lot No.	Receiving Date	Source	Plant	Total Weight (kg)	No. of Units	Outstanding Units	Production Lot No.	Certificate
000134F31101	-	01-Oct-2020	Obtained	RD15 Organic Rice	75.000	3.000	0.000	RD15221030, BR221030	View
000144F32001	-	30-Sep-2020	Self-Produced	RD15 Organic Rice	50.000	2.000	1.000	RD15221030, BR221030	View
000144F33001	-	01-Oct-2020	Self-Produced	RD15 Organic Rice	200.000	8.000	8.000	-	View

2) The system will show a sub-menu to select, click on “Select Unit”

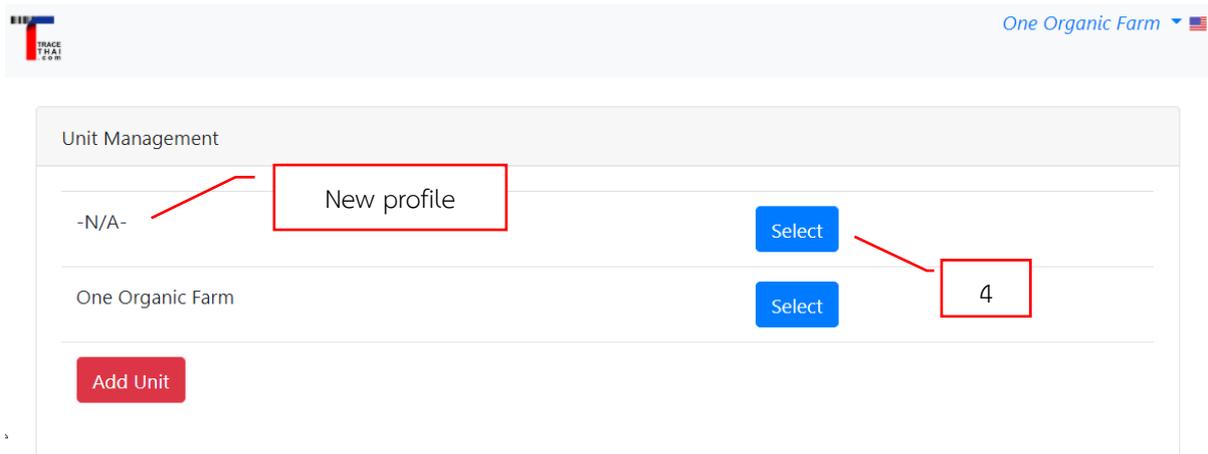


The screenshot shows the user interface for 'One Organic Farm' with a sub-menu open. The 'Select Unit' option is circled in red. The sub-menu also includes a 'Sign Out' option. The rest of the interface is identical to the previous screenshot, showing the 'Raw Materials' table and navigation tabs.

3) Click on “Add new unit”

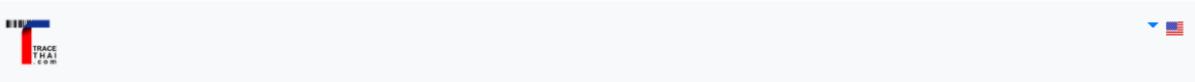


4) The system will create new production unit profile. All menu and usage is the same as the previous unit. The user need to name the new profile by clicking on “Select” to enter the profile name first.



5) On the general information page, the user enter new profile name in the field “Company Name/ Employer Neme”

กรุณามั่นทึก Profile ให้สมบูรณ์ก่อนเริ่มใช้งาน



1. Basic Information 2. Production & Distribution 3. Reports

1) Profile 2) Members 3) Fields 4) Certificates

Profile 5 Latest Update: 2020-10-18 14:55:39 +0700

Company Name/Entrepreneur Name *

required

Picture(1) Picture(2)

Choose File No file chosen Choose File No file chosen

Storytelling

File Edit View Insert Format Tools Table

↶ ↷ Paragraph **B** *I* ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡ ≡

6) When the user click on “Select Unit” the next time, there will be new profile for the user to enter information.

TRACE THAI .COM One Organic Exporter

Unit Management

One Organic Exporter	Select
One Organic Farm	Select

Add Unit

Choose Profile to enter data.

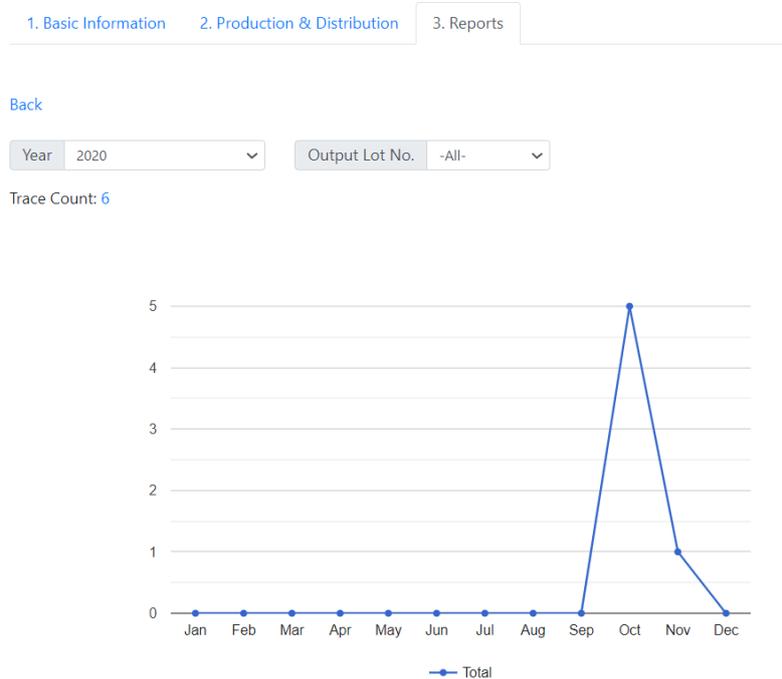
2.12. Report

The user can monitor how the user scan QR code for marketing intelligence or spot the irregularities in the market. The user clicks on 'Reports' and then click 'QR Code Scanning Records.'

1. Basic Information 2. Production & Distribution 3. Reports

- [QR Code Scanning Records](#)

The platform allows the user to select the period to view the result.



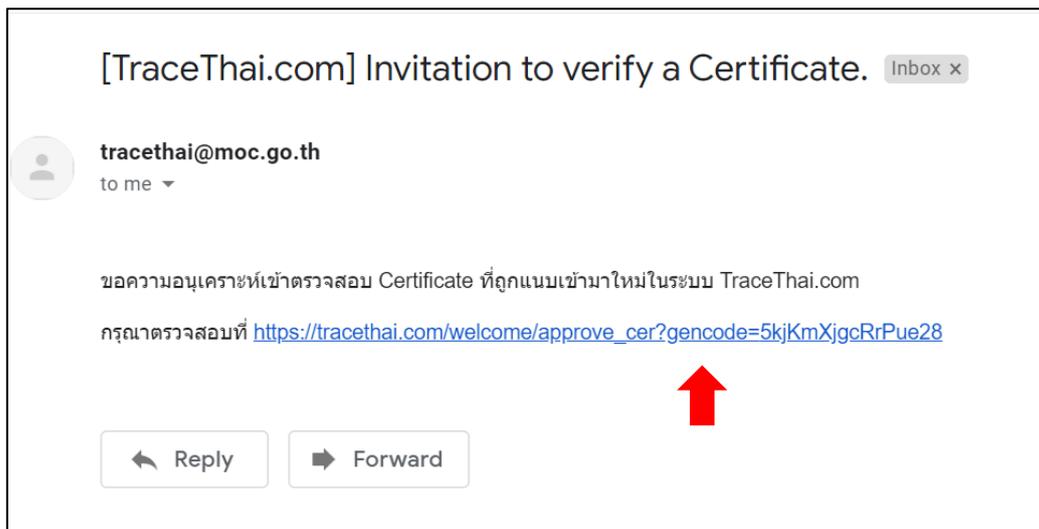
The system shows how many times each lot number has been scanned, where (inferred from IP Address), and when.

Trace Histories [2020]

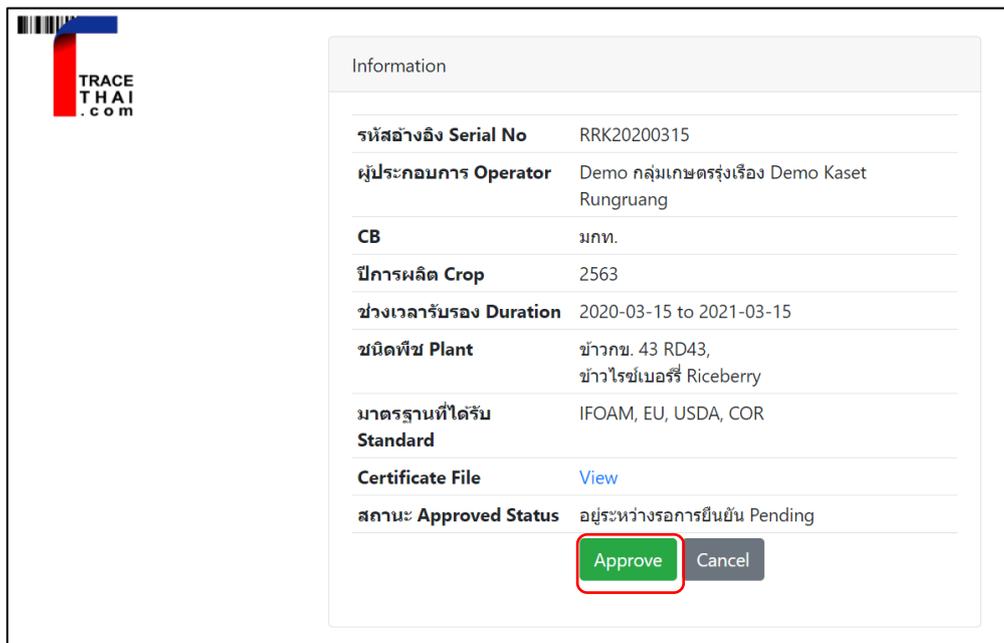
ID	Lot No.	IP Address	Location	Date
1771	0002A4F35101	66.249.79.230	Ashburn,US 20149	16-Nov-2020
1611	0002A4F35101	171.98.69.146	Bangkok,TH 10100	31-Oct-2020
1610	0002A4F35101	171.98.69.146	Bangkok,TH 10100	31-Oct-2020
1609	0002A4F35101	171.98.69.146	Bangkok,TH 10100	31-Oct-2020
1608	0002A4F35102	171.98.69.146	Bangkok,TH 10100	31-Oct-2020
1607	0002A4F35102	171.98.69.146	Bangkok,TH 10100	31-Oct-2020

3. How to Endorse the Certificate

The Certifying Body (CB) plays an important role in verifying the validity of the certificate uploaded by the operators. Once the operator records the certificate with issuing CB, TraceThai will notify CB by e-mail. The CB needs not to enter the platform. The CB can endorse or cancel the certificate by clicking link embedded in the e-mail.



This link will lead the CB to TraceThai.com and show the details of the certificate claimed by the operator. The CB can either endorse the certificate by clicking 'Approve'.



Once the CB approves the certificate, the information shown in the traceability will show 'Confirmed by CB' and the dark green icon.

Information

General	Product Lot
Name	Demo กลุ่มเกษตรรุ่งเรือง Demo Kaset Rungruang
	
Certificate	ข้าวข. 43 RD43, ข้าวไรซ์เบอร์รี่ Riceberry [IFOAM,EU,USDA,COR] View Certification Body: มกท. ● Verified by CB, 7-Aug-20
Address	111 ถ.กาญจนาภิเษก
Tel	022542345

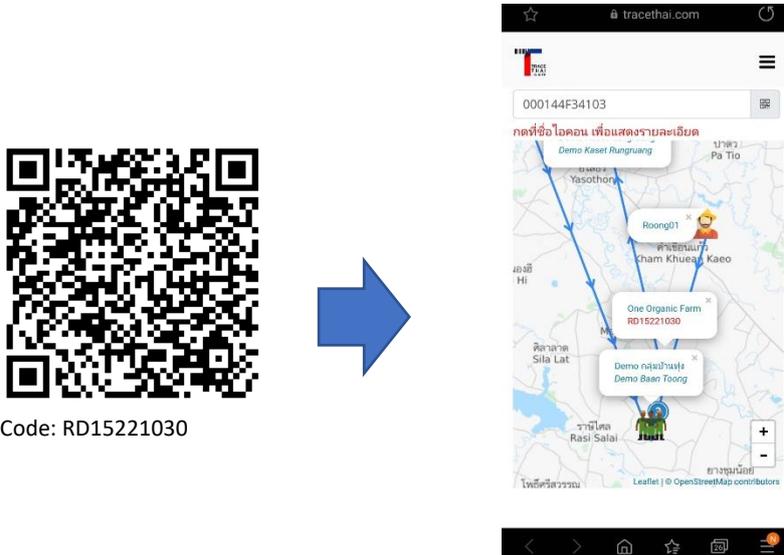
In case that TraceThai verifies the certificate based on public data available on the internet, the system will show 'Verified by Link' and the user can click the link that lead to the source of the proof.



Certificate	ข้าวข. 43 RD43 Organic Rice, ข้าวทับทิมชุมแพ RD69 (Tubtim Chumphae) Organic Rice, ข้าวมะลิดำหนองคาย Black Mali Nong Khai Organic Rice, ข้าวมะลิสีสุรินทร์ Mali Nil Surin Organic Rice, ข้าวหอมปทุมเทพ Hom Pathum Thep Organic Rice, ข้าวหอมมะลิแดง Red Hommali Organic Rice, ข้าวไรซ์เบอร์รี่ Riceberry Organic Rice [IFOAM,EU,USDA,COR] View Certification Body: สำนักงานมาตรฐานเกษตรอินทรีย์ (มกท) Organic Agriculture Certification Thailand (ACT) ● Confirmed by Link, 05-Oct-20
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4. Traceability for the Consumer

The consumer can trace where the food comes from by using the smart phone to scan the QR code on the produce. Alternatively, the consumer can access TraceThai.com and enter Lot Number to trace the origin of the product. The data stored on Blockchain will be displayed on the map which allows the consumer to trail where the product passed.



The consumer can seek more information on the producer by clicking on the icon. Related information such as details of operator, certificate can be accessed by clicking on related icons.

