



USER MANUAL FOR HANDHELD APPLICATION



JABATAN PERHUTANAN SEMENANJUNG MALAYSIA

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PROJECT IDENTIFICATION

Title	The Development of <i>Gonystylus</i> spp. (Ramin) Timber Monitoring System Using Radio Frequency Identification (RFID) in Peninsular Malaysia.
Executing Agency	Ministry of Natural Resources and Environment Malaysia
Implementing Agency	Forestry Department Peninsular Malaysia
Host Government	Government of Malaysia
Starting Date	November 2008
Actual Duration	8 months (Extended to 24 months)
Actual Activity Costs (US\$)	ITTO = 103,200.00 GOM (In kind) = 70,910.00 TOTAL = 174,110.00

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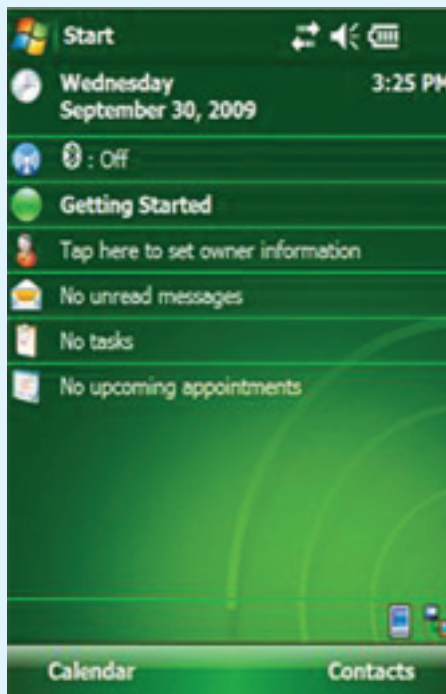
A person wearing a dark cap and a patterned sweater is shown from the side, looking down at a handheld device. The background is a blurred outdoor setting, possibly a field or construction site. The entire image is overlaid with a semi-transparent blue filter.

CHAPTER I: ACTIVATE HANDHELD MINI COMPUTER



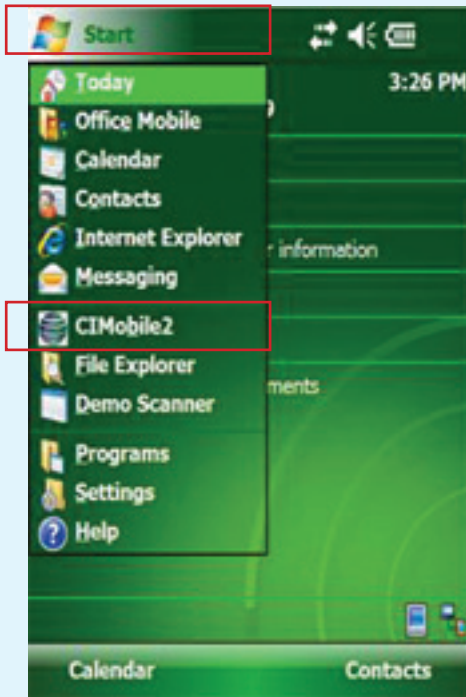
Step 1:

Press for few seconds on **enter** button to switch on and activate the handheld.



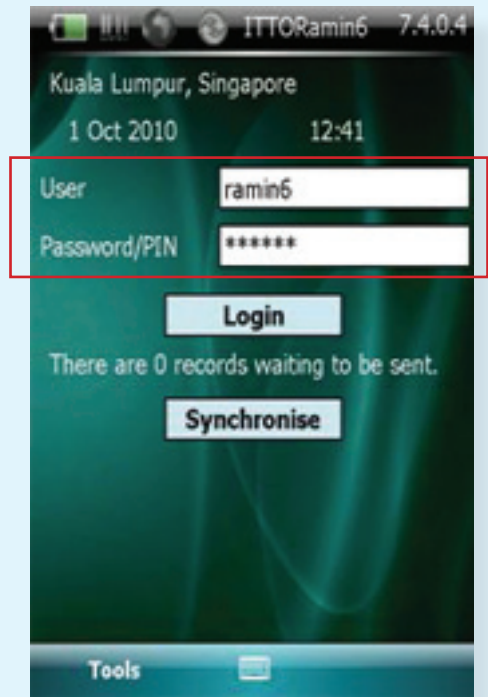
Step 2:

Once the handheld is activated, this menu will appear.



Step 3:

Press **start** and select **CIMobile2** application.



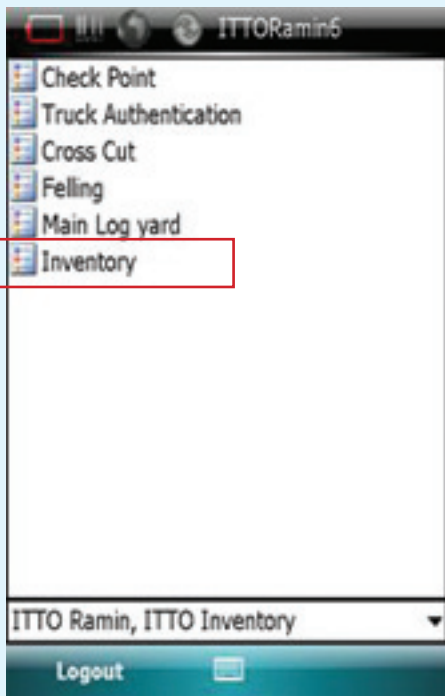
Step 4:

Key in username and password in the **user** and **password/pin** fields.



A person wearing a dark cap and a patterned sweater is shown from the side, looking down at a device in their hands. The background is a blurred outdoor setting. The entire image is overlaid with a semi-transparent blue filter.

CHAPTER II: DATA COLLECTION DURING TREE TAGGING ACTIVITY



Step 1:

Select **Inventory** to start the data collection.



Step 2:

The **Inventory** menu is displayed.



Step 3:

Key in information in the required fields and press **save** after complete.

Step 4:

Press **option** and click **clear form** to key in information of another tree.



Step 5:

The **Inventory** menu is displayed again. Repeat **step 3** and **4** until the works complete.



Step 6:

To upload and send data to server, activate Wi-Fi internet connection and press **Synchronise**.

If it is connected manually, make sure the cabel is plugged.

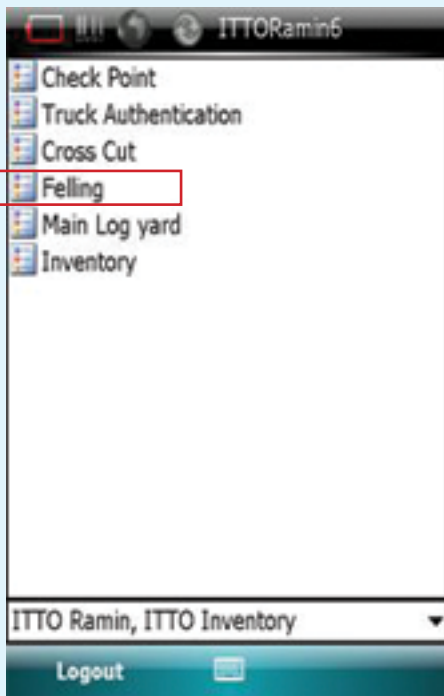


Step 7:
Press **Logout** to end the process.



A person wearing a dark cap and a patterned sweater is shown from the side, looking down at a device in their hands. The background is a blurred outdoor setting. The entire image is overlaid with a semi-transparent blue filter.

CHAPTER III : DATA COLLECTION DURING TREE FELLING ACTIVITY



Step 1:

Repeat **step 1 to 4** as in **Chapter I**. Select **Felling** to start data collection.



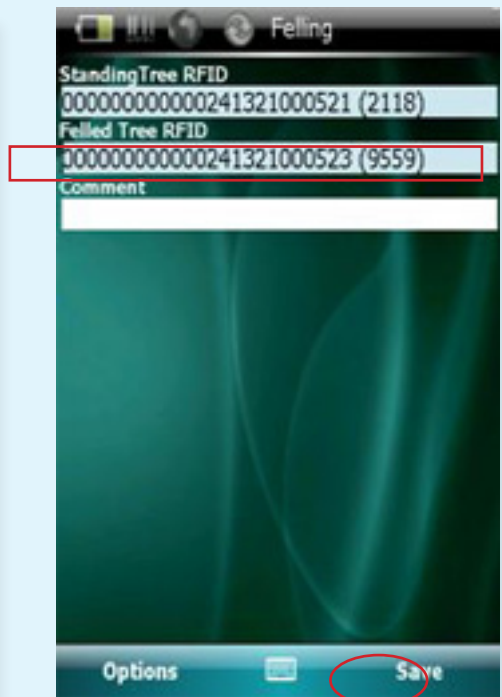
Step 2:

Felling menu is displayed.



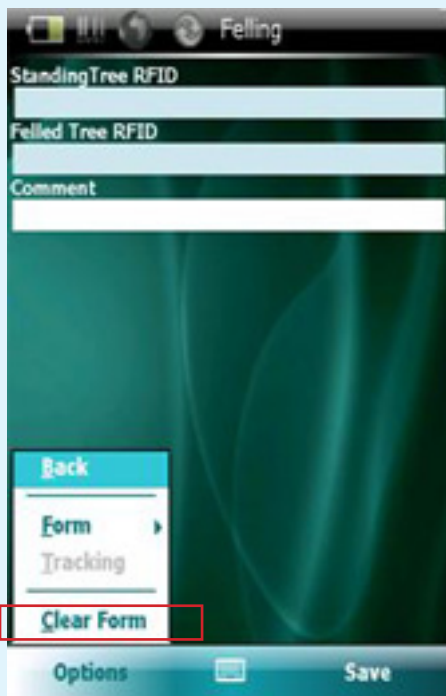
Step 3:

Scan RFID tag at the tree stump (tagged during tree tagging).



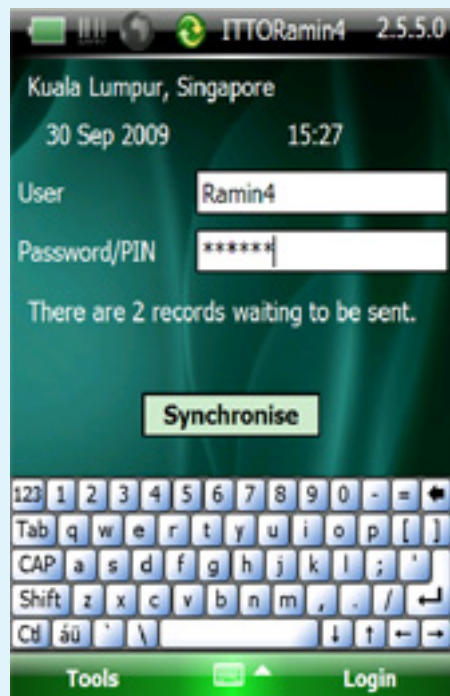
Step 4:

Scan new RFID tag then attach at the first log from the felled tree. Press **save** to save the information.



Step 5:

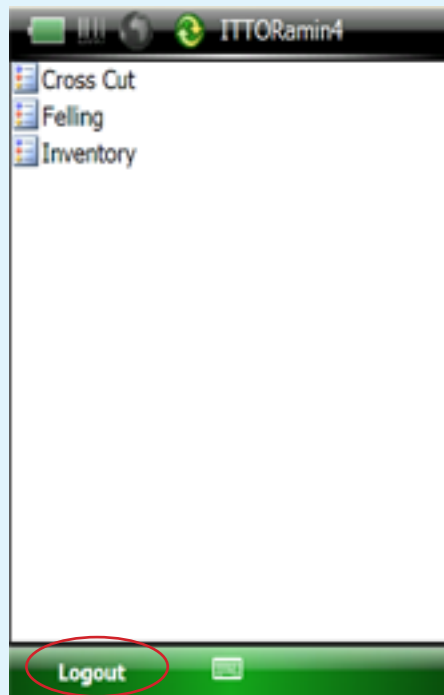
Press **option** and click **clear form** to fill up next tree information. Repeat **step 3** and **4** until tree felling activity complete.



Step 6:

To upload and send data to the server, activate Wi-Fi internet connection and press **Synchronise**.

For manual connection, make sure the cable is plugged.

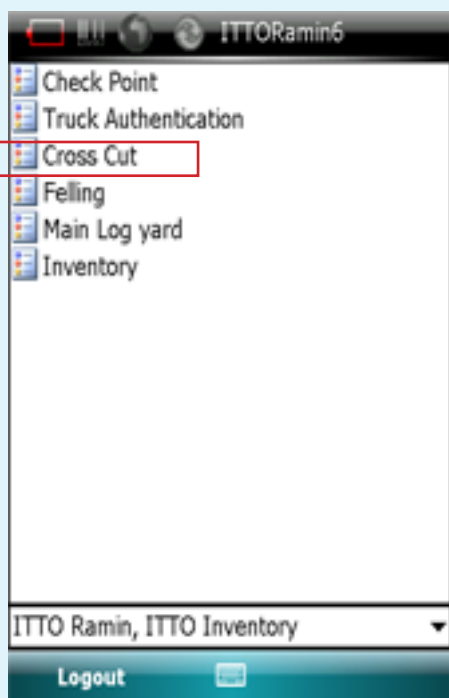


Step 7:
Press **Logout** to end the process.



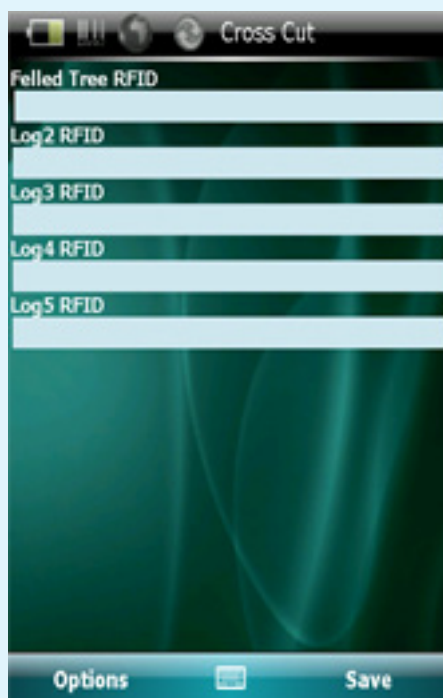
A person wearing a dark cap and a patterned sweater is shown from the side, looking down at a device in their hands. The background is a blurred outdoor setting. The entire image is overlaid with a semi-transparent blue filter.

CHAPTER IV : DATA COLLECTION DURING LOG CROSS CUTTING ACTIVITY



Step 1:

Repeat **step 1 to 4** in **Chapter I**. Select **Cross Cut** to start the data collection.

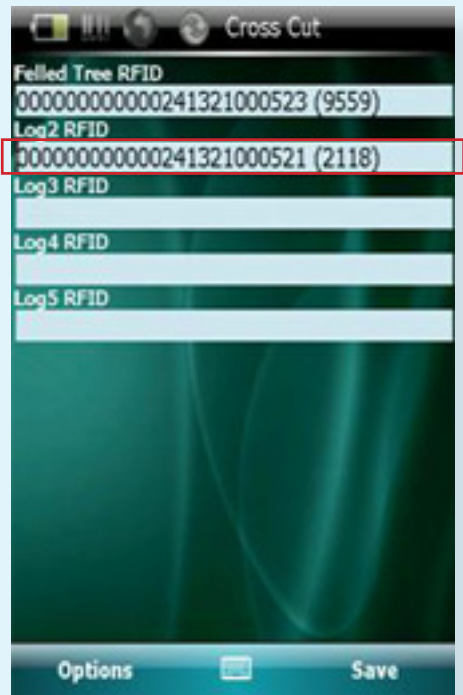


Step 2:

Cross Cut menu is displayed.



Step 3:
Scan RFID tag at first log.



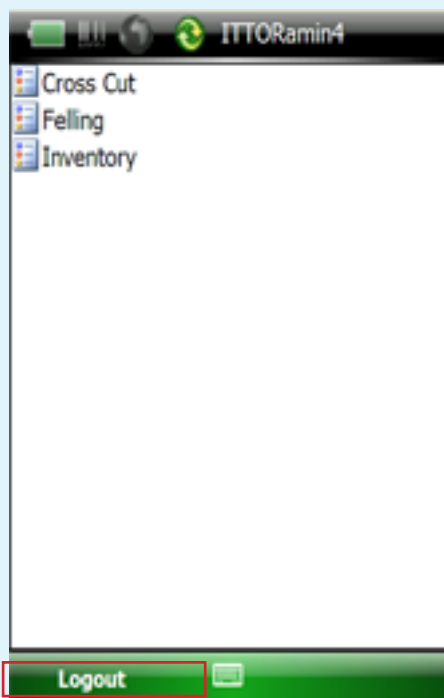
Step 4:
Select **Log 2 RFID** field, and scan new RFID that attached on second log. Select **Log 3 RFID** field, **Log 4 RFID** field and **Log 5 RFID** field and scan respective RFID at the cross cut logs. Press save to **save** the information.



Step 5:

To upload and synchronise data to server, activate Wi-Fi Internet connection and press **Synchronise**

For manual connection, make sure the cable is plugged.

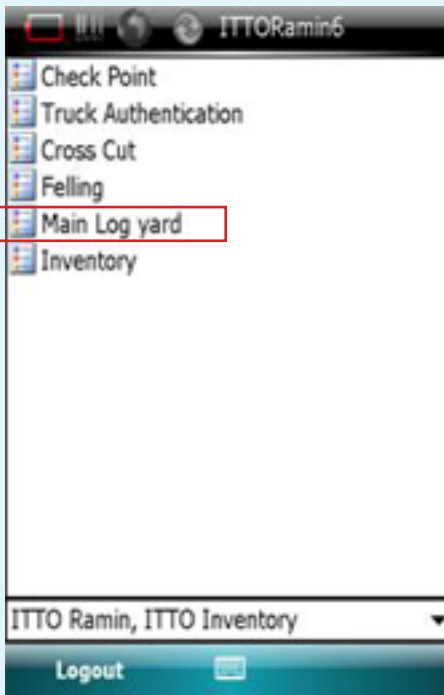


Step 6:

Press **Logout** to end the process.

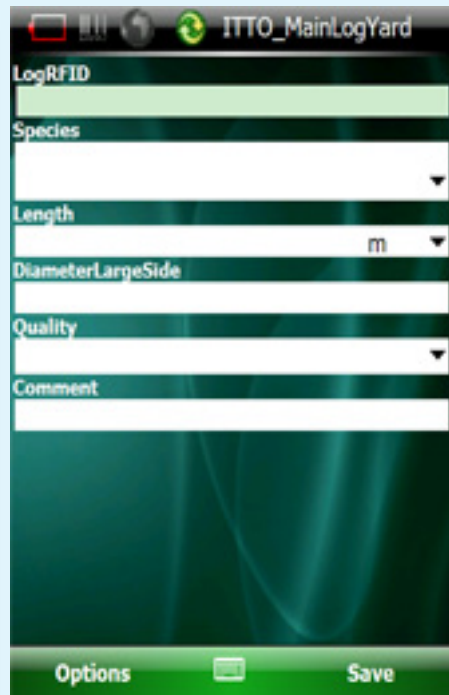
A person wearing a dark cap and a patterned sweater is shown from the side, looking down at a device or equipment. The background is a log yard with piles of logs. The entire image is overlaid with a semi-transparent blue filter.

CHAPTER V: DATA COLLECTION AT MAIN LOG YARD



Step 1:

Repeat **Step 1 to 4** as in **Chapter I**.
Select **Main Log Yard** to start data collection.



Step 2:

Main Log Yard menu is displayed.

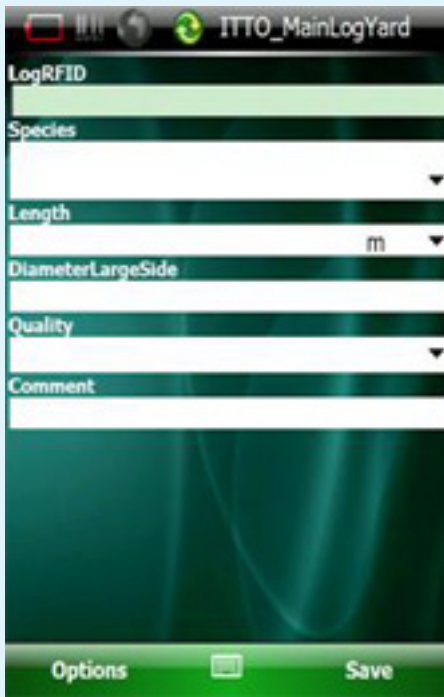


Step 3:

Scan RFID tag attached at the log and enter data in the related field, then press **save** after complete.

Step 4:

Press **option** and click **clear form** to enter subsequent log information.



Step 5:

Main Log Yard menu is displayed again. Repeat step 3 and 4 until work complete.



Step 6:

To upload and synchronise data to the server, activate Wi-Fi Internet connection and press **Synchronise**.

For manual connection, make sure the cable is plugged.

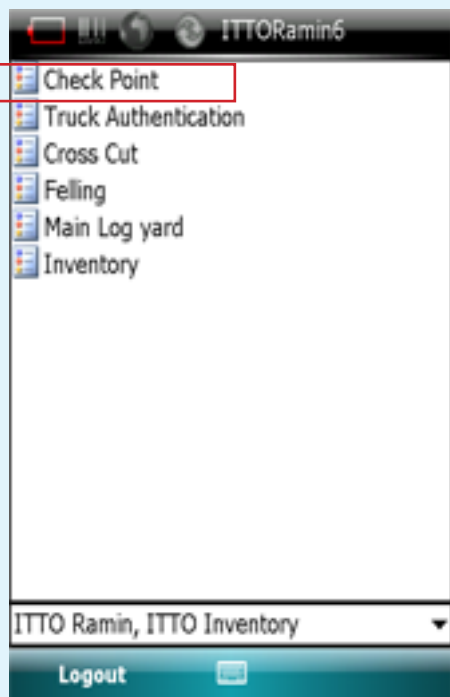


Step 7:
Press **Logout** to end process.



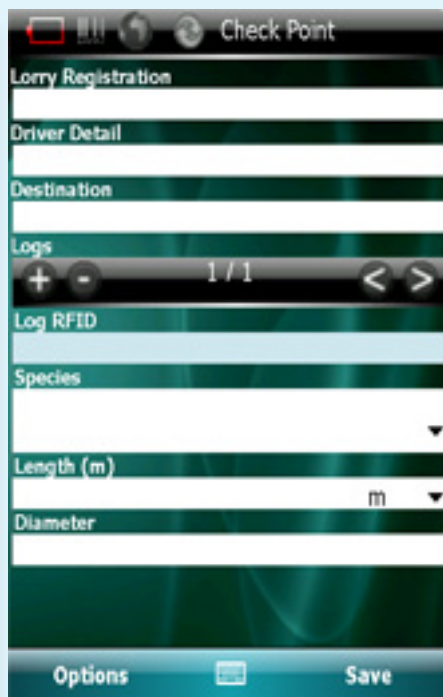
A person wearing a dark cap and a patterned sweater is seen from the side, looking down at a device or equipment. The background is a blurred outdoor setting, possibly a forest or field. The entire image is overlaid with a semi-transparent blue filter.

CHAPTER VI : DATA COLLECTION AT FOREST CHECKING STATION



Step 1:

Repeat **Step 1 to 4** as in **Chapter I**. Select **Check Point** to start data collection.



Step 2:

Check Point menu is displayed.



Check Point

Lorry Registration

Driver Detail

Destination

Logs 1 / 1

Log RFID

Species

Length (m) m

Diameter

Options Save

Step 3:

Scan RFID tag at the logs on the lorry and key in information in the required fields.

Check Point

Lorry Registration

Driver Detail

Destination

Logs 1 / 1

Log RFID

Species

Length (m) m

Diameter

Options Save

Step 4:

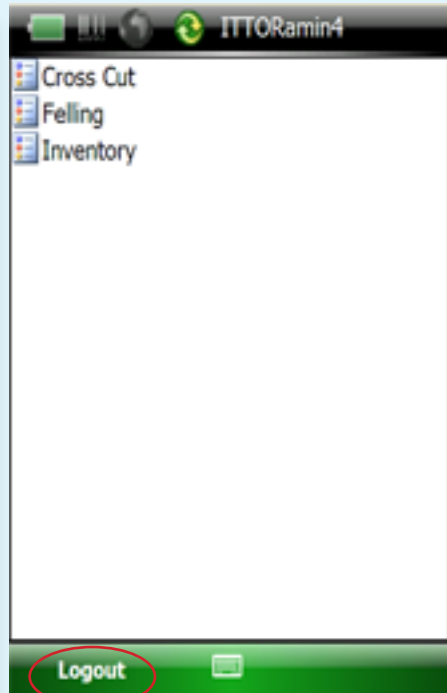
Press “+” in the **Logs** menu and repeat step 3 to key in subsequent logs information until finish. Press **save** when complete. The system will generate **Authentication Code** for the removal pass based on information key in.



Step 5:

To upload and send data to the server, activate the Wi-Fi internet connection and press **Synchronise**.

For manual connection, make sure the cable is plugged.

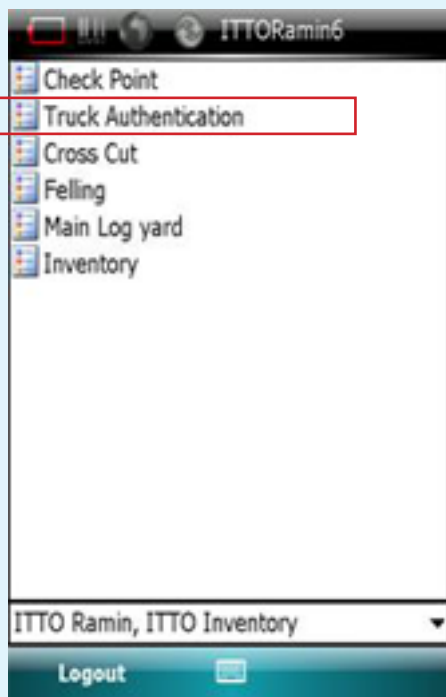


Step 6:

Press **Logout** to end the process.

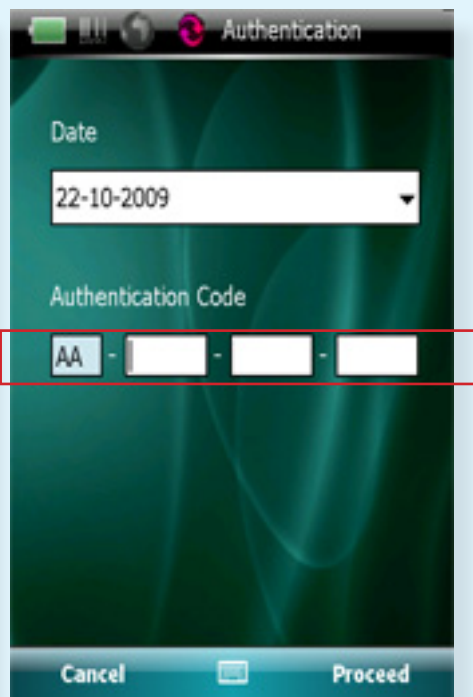
A person wearing a dark cap and a patterned sweater is seen from the side, looking down at a device in their hands. They are on a boat, with the water and a distant shoreline visible in the background. The entire image is overlaid with a semi-transparent blue filter.

CHAPTER VII : DATA COLLECTION DURING ENFORCEMENT ACTIVITY



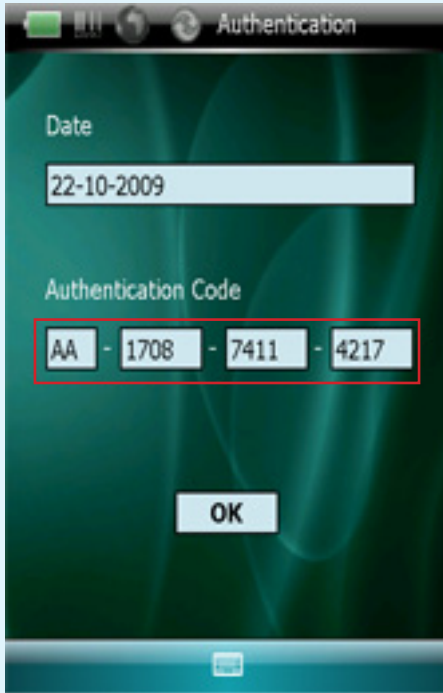
Step 1:

Repeat **step 1 to 4** as in **Chapter I**.
Select **Truck Authentication** to start
the data collection.

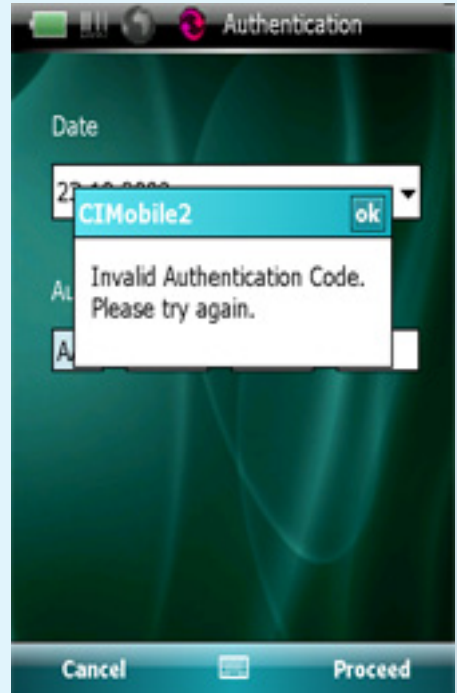


Step 2:

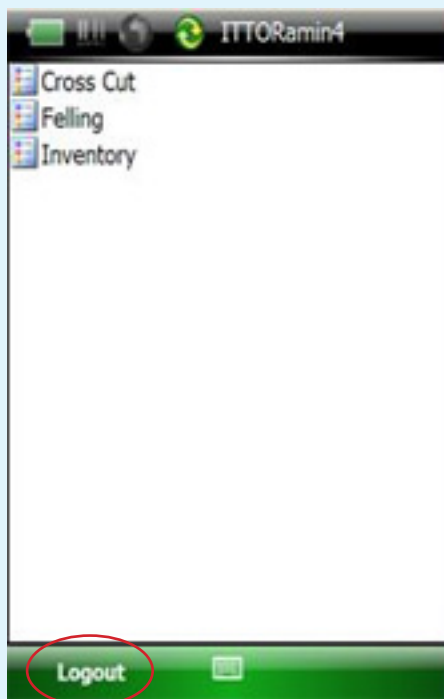
Check Point menu is displayed.



Step 3:
Key in **Authentication Code** in the required field.



Step 4:
Key in **Authentication Code** again if is not correct.



Step 6:
Press **Logout** to end process.

ISI KANDUNGAN

MANUAL PENGGUNA APLIKASI *HANDHELD*

BAB	TAJUK	MUKASURAT
I	Mengaktifkan Handheld Mini Komputer	37
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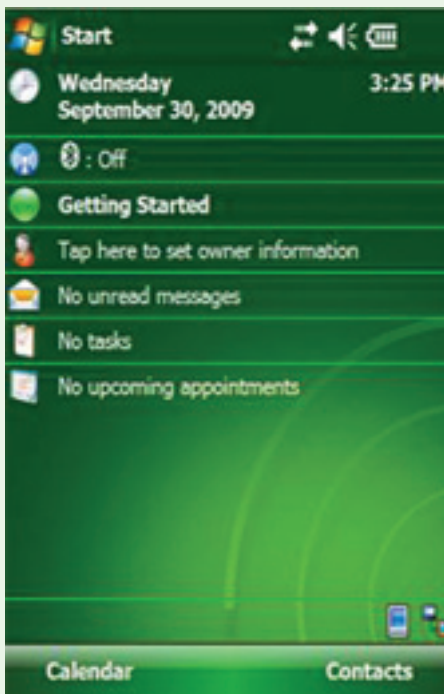
A person wearing a dark cap and a sweater with a complex geometric pattern is shown from the side, looking down at a handheld device. The background is a blurred outdoor setting, possibly a field or construction site. The entire image is overlaid with a semi-transparent green filter.

BAB I :
MENGAKTIFKAN *HANDHELD* MINI
KOMPUTER



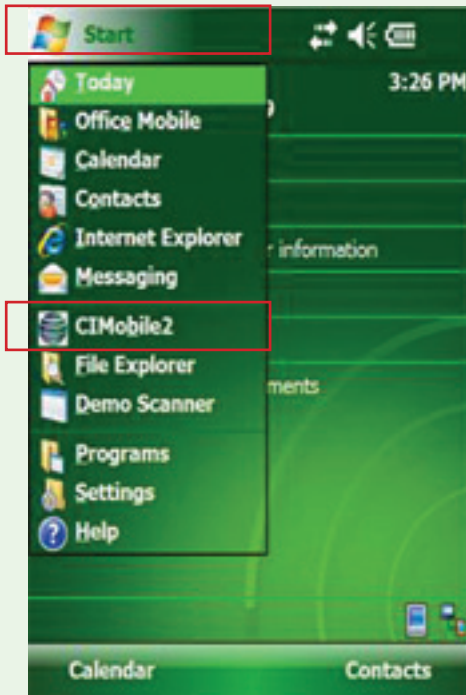
Langkah 1:

Untuk mengaktifkan *handheld*, tekan tombol *enter* selama beberapa saat.



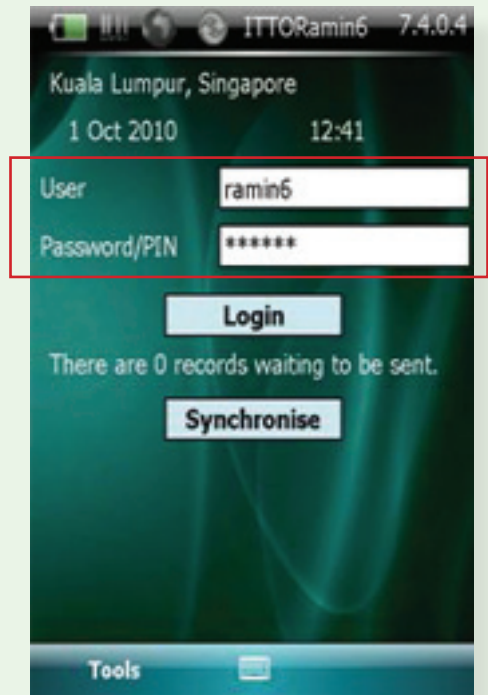
Langkah 2:

Menu ini akan dipaparkan setelah *handheld* diaktifkan.



Langkah 3:

Tekan butang *start* dan pilih perisian *CIMobile2*.



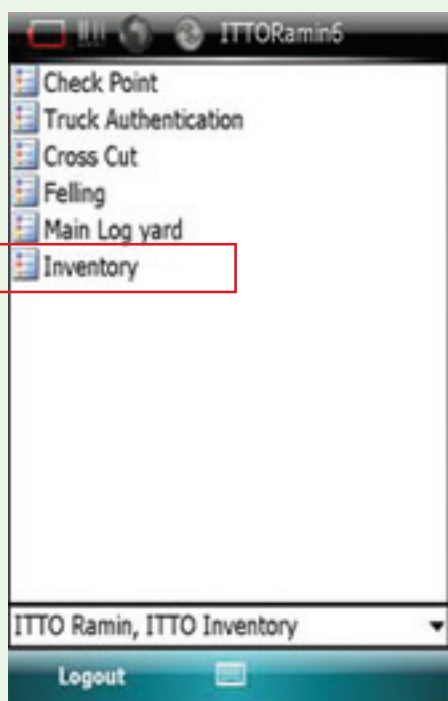
Langkah 4:

Menu ini akan dipaparkan. Isikan ruangan *user* dan *password/pin*.



A person wearing a dark cap and a long-sleeved shirt with a complex geometric pattern is shown from the side, looking down at a device held in their hands. The background is a blurred outdoor setting, possibly a field or a construction site. The entire image is overlaid with a semi-transparent green filter.

BAB II : PENGAMBILAN MAKLUMAT SEMASA AKTIVITI PENANDAAN POKOK



Langkah 1:

Pilih tombol **Inventory** untuk memulakan kerja-kerja pengambilan data.



Langkah 2:

Menu **Inventory** ini akan terpapar.



Inventory

No. Petak
5

No. Siri Tag Tanda Pokok
4E4C35383737375231433031 (1633)

Spesis
Soesis I R
RAMIN

Diameter
55

Anggaran Bil Tual
4

Kualiti Balak
2

Jenis
Pokok Tebangan

Catatan

Options Save

Langkah 3:

Masukkan maklumat dalam petak yang berkenaan dan tekan butang **save** setelah selesai.

Inventory

No. Blok

No. Petak

No. Siri Tag Tanda Pokok (This is a required field.)

Spesis (This is a required field.)

Spesis

Diameter

Anggaran Bil Tual

Back

Form

Tracking

Clear Form

Options Save

Langkah 4:

Tekan butang **option** dan klik **clear form** untuk mengisi maklumat pokok yang seterusnya.



Langkah 5:

Menu **Inventory** ini akan terpapar semula. Ulangi Langkah 3 dan 4 sehingga kerja-kerja selesai.



Langkah 6:

Untuk memuat naik maklumat-maklumat berkenaan ke server, aktifkan sambungan ke laman sesawang dan tekan butang **Synchronise**.

Bagi sambungan secara manual, pastikan kabel telah disambungkan.



Langkah 7:

Tekan butang **Logout** untuk menamatkan proses.



A person wearing a patterned sweater and a cap, looking down at a device, with a green overlay.

BAB III : **PENGAMBILAN MAKLUMAT SEMASA** **AKTIVITI PENEANGAN POKOK**



Langkah 1:

Ulangi Langkah 1- 4 seperti di **Bahagian I**. Pilih butang **Felling** untuk memulakan kerja-kerja pengambilan data.



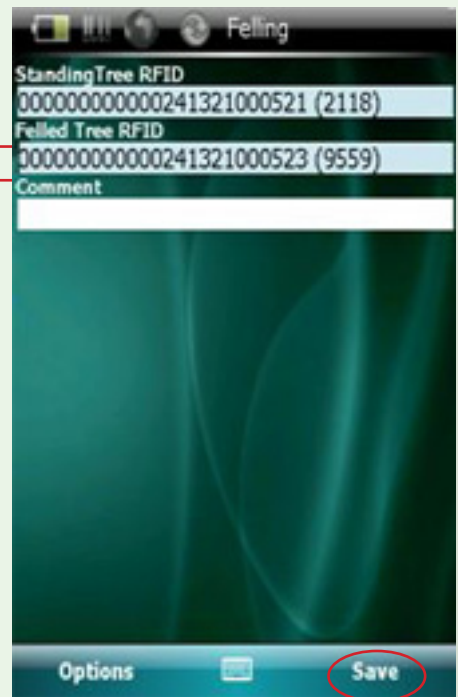
Langkah 2:

Menu **Felling** ini akan terpapar.



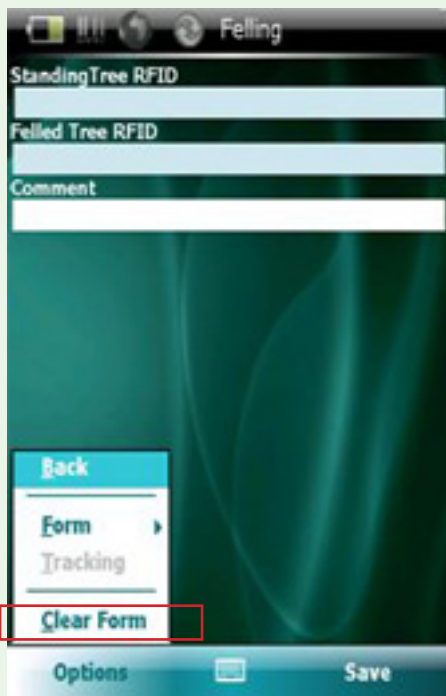
Langkah 3:

Imbas tag RFID pada tunggul pokok (tag semasa penandaan pokok).



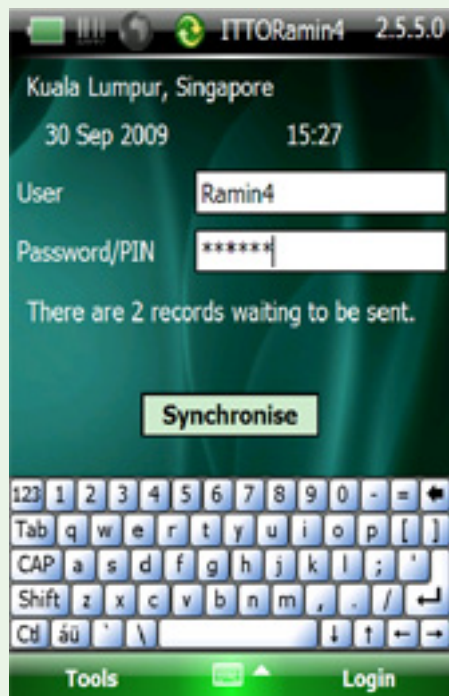
Langkah 4:

Imbas tag RFID yang baru untuk dilekatkan pada tual pertama pada pokok yang telah ditebang. Tekan butang **save** untuk menyimpan maklumat-maklumat berkenaan.



Langkah 5:

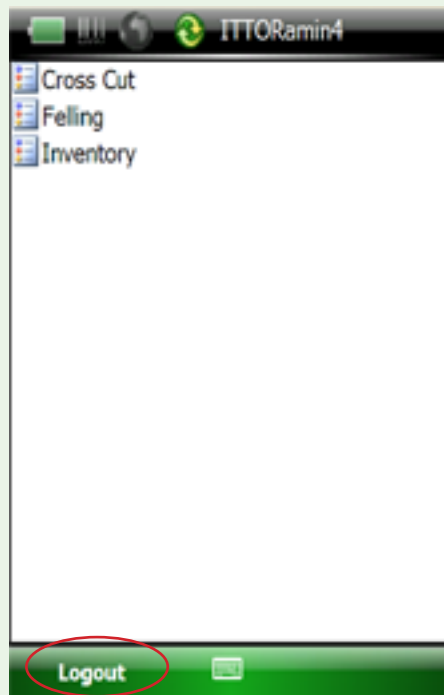
Tekan butang *option* dan klik *clear form* untuk mengisi maklumat pokok yang seterusnya. Ulangi langkah 3 dan 4 sehingga kerja-kerja penebangan pokok selesai.



Langkah 6:

Untuk memuat naik maklumat-maklumat berkenaan ke server, aktifkan sambungan ke laman sesawang dan tekan butang *Synchronise*.

Bagi sambungan secara manual, pastikan kabel telah disambungkan.

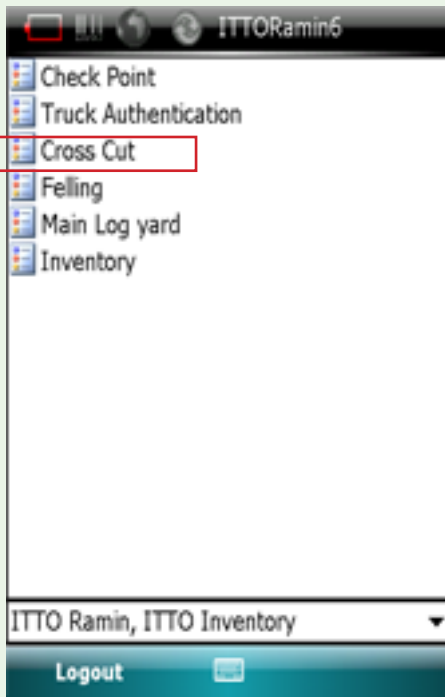


Langkah 7:
Tekan butang **Logout** untuk menamatkan proses.



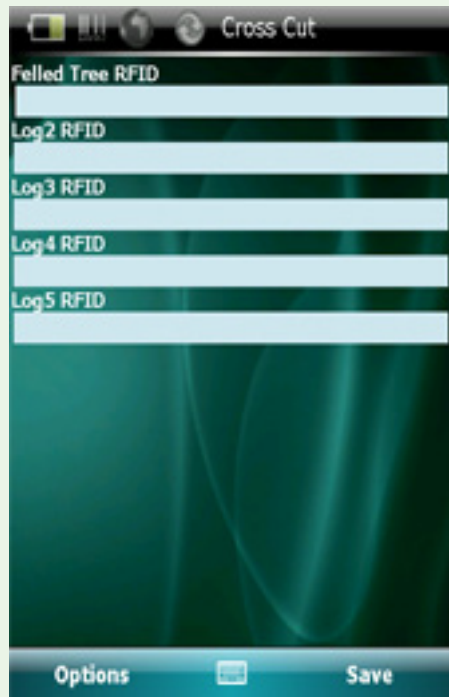


BAB IV :
PENGAMBILAN MAKLUMAT SEMASA
KERJA-KERJA PENUALAN BALAK



Langkah 1:

Ulangi **Langkah 1- 4** seperti di **Bahagian I**. Pilih butang **Cross Cut** untuk memulakan kerja-kerja pengambilan data.



Langkah 2:

Menu **Cross Cut** ini akan terpapar.



Langkah 3:

Imbas tag RFID pada tual pertama.



Langkah 4:

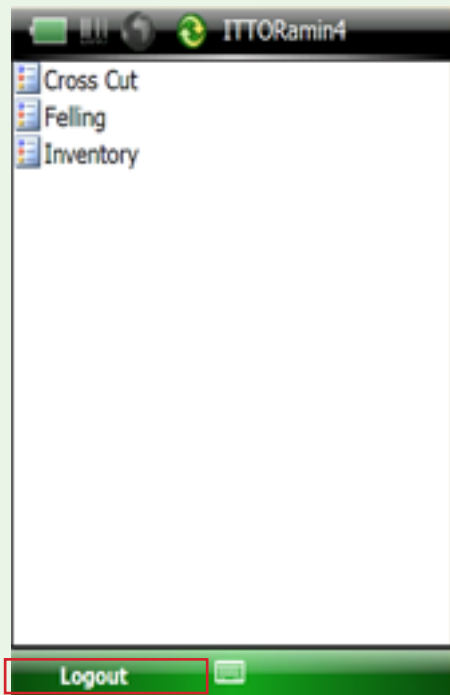
Pilih petak **Log 2 RFID** dan imbas tag RFID yang baru untuk dilekatkan pada tual kedua. Pilih petak **Log 3 RFID**, **Log 4 RFID** dan **Log 5 RFID** untuk tual-tual seterusnya. Tekan butang **save** untuk menyimpan maklumat-maklumat berkenaan.



Langkah 5:

Untuk memuat naik maklumat-maklumat berkenaan ke server, aktifkan sambungan ke laman sesawang dan tekan butang **Synchronise**.

Bagi sambungan secara manual, pastikan kabel telah disambungkan.



Langkah 6:

Tekan butang **Logout** untuk menamatkan proses.

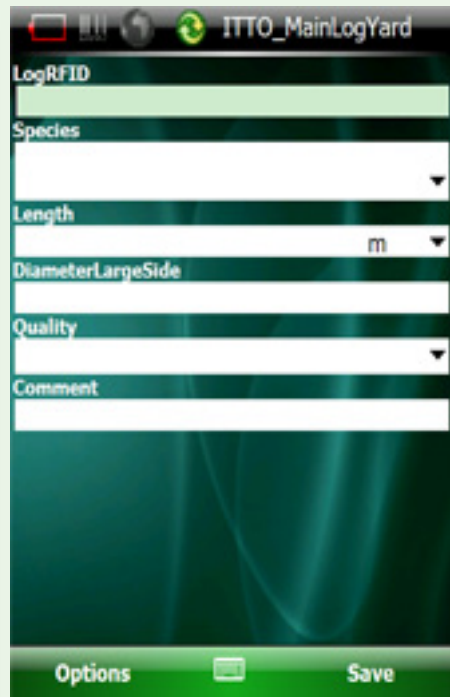
A person wearing a patterned sweater and a cap, viewed from the side, against a green background. The person is looking down and to the left. The sweater has a complex geometric pattern with horizontal bands of different designs. The cap is dark and has a small white logo on the front. The background is a solid green color with a subtle texture.

BAB V : PENGAMBILAN MAKLUMAT SEMASA KERJA-KERJA DI MATAU UTAMA



Langkah 1:

Ulangi **Langkah 1- 4** seperti di **Bahagian I**. Pilih butang **Main Log Yard** untuk memulakan kerja-kerja pengambilan data.



Langkah 2:

Menu **Main Log Yard** ini akan terpapar.

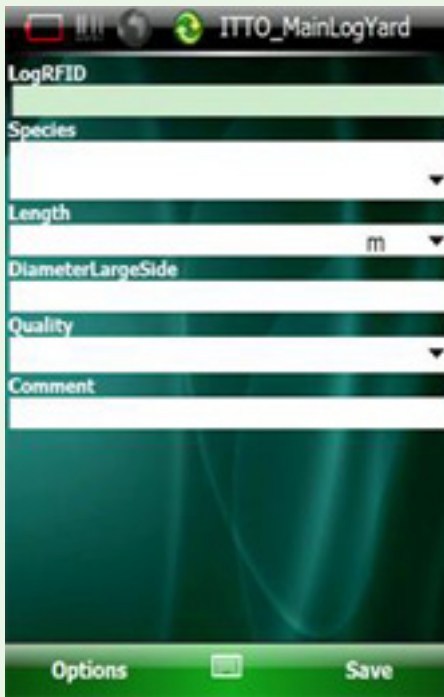


Langkah 3:

Imbas tag RFID pada tual balak dan masukkan maklumat dalam petak yang berkenaan dan tekan butang save setelah selesai.

Langkah 4:

Tekan butang *option* dan klik *clear form* untuk mengisi maklumat pokok yang seterusnya.



Langkah 5:

Menu **Main Log Yard** ini akan terpapar semula. Ulangi Langkah 3 dan 4 sehingga kerja-kerja selesai.



Langkah 6:

Untuk memuat naik maklumat-maklumat berkenaan ke server, aktifkan sambungan ke laman sesawang dan tekan butang **Synchronise**.

Bagi sambungan secara manual, pastikan kabel telah disambungkan.

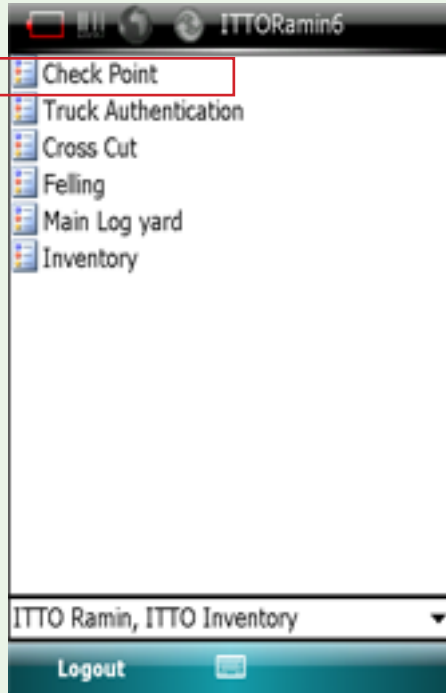


Langkah 7:
Tekan butang **Logout** untuk menamatkan proses.



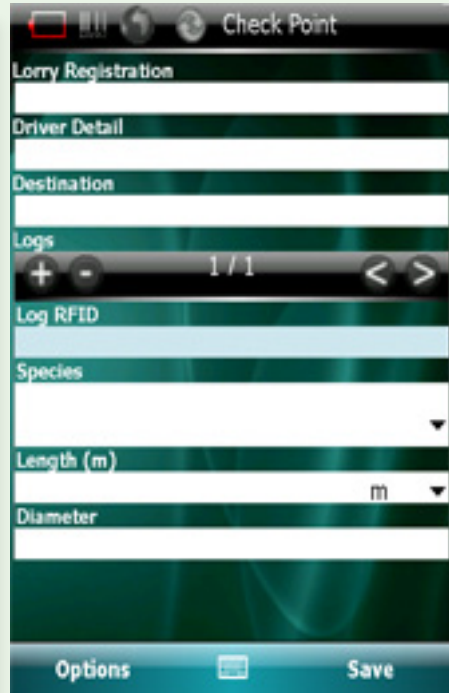


BAB VI :
**PENGAMBILAN MAKLUMAT SEMASA KERJA-
KERJA DI BALAI PEMERIKSAAN HUTAN**



Langkah 1:

Ulangi **Langkah 1- 4** seperti di **Bahagian I**. Pilih butang **Check Point** untuk memulakan kerja-kerja pengambilan data.



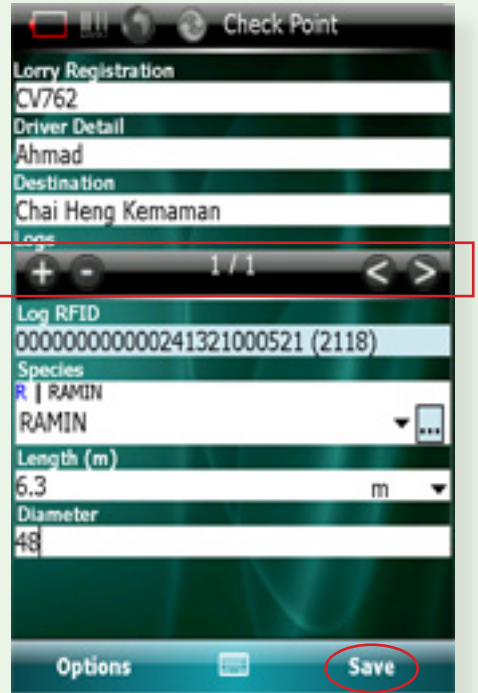
Langkah 2:

Menu **Check Point** ini akan terapar.



Langkah 3:

Imbas tag RFID pada tual balak di atas lori dan masukkan maklumat dalam petak yang berkenaan.



Langkah 4:

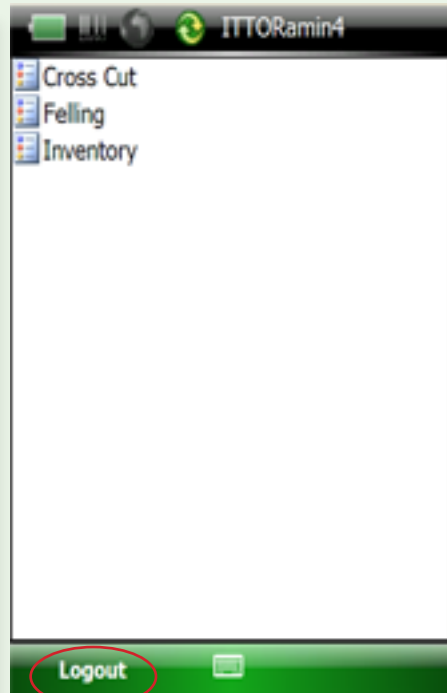
Tekan butang "+" pada menu **Logs** dan ulang Langkah 3 bagi mengisi maklumat tual yang seterusnya sehingga selesai. Tekan butang **save** setelah selesai. Sistem akan menjana **Authentication Code** untuk pas pemindah berdasarkan maklumat-maklumat yang dimasukkan.



Langkah 5:

Untuk memuat naik maklumat-maklumat berkenaan ke server, aktifkan sambungan ke laman sesawang dan tekan butang **Synchronise**.

Bagi sambungan secara manual, pastikan kabel telah disambungkan.

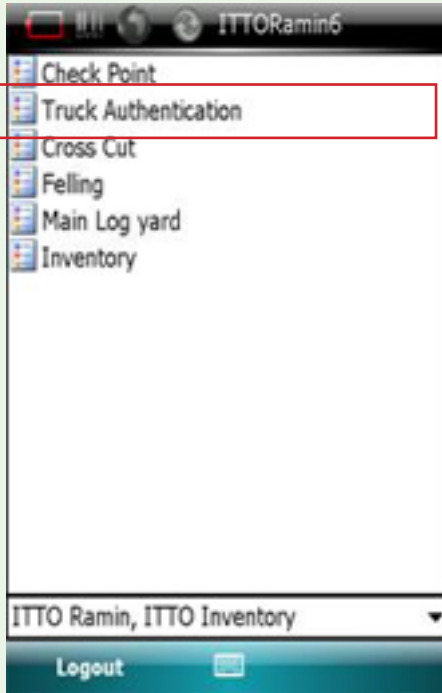


Langkah 6:

Tekan butang **Logout** untuk menamatkan proses.

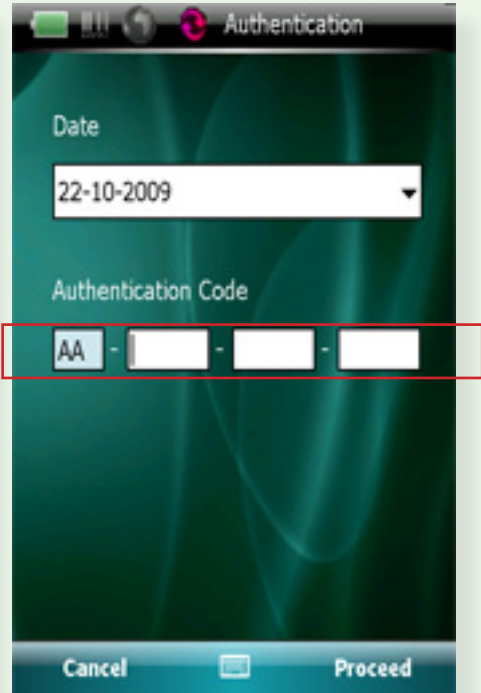


BAB VII :
PENGAMBILAN MAKLUMAT SEMASA
KERJA-KERJA PENGUATKUASAAN HUTAN



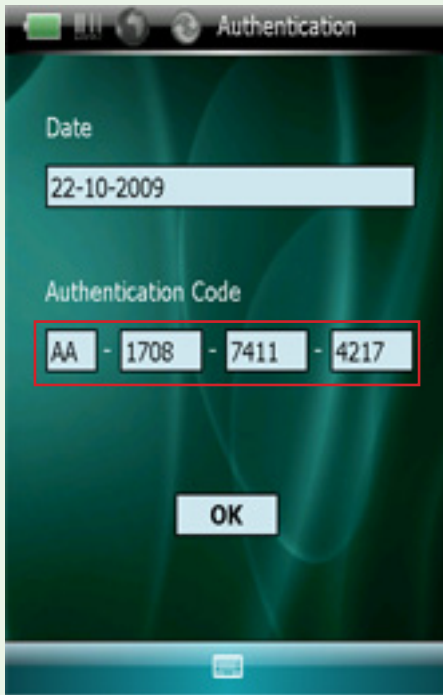
Langkah 1:

Ulangi **Langkah 1- 4** seperti di **Bahagian I**. Pilih butang **Truck Authentication** untuk memulakan kerja-kerja pengambilan data.



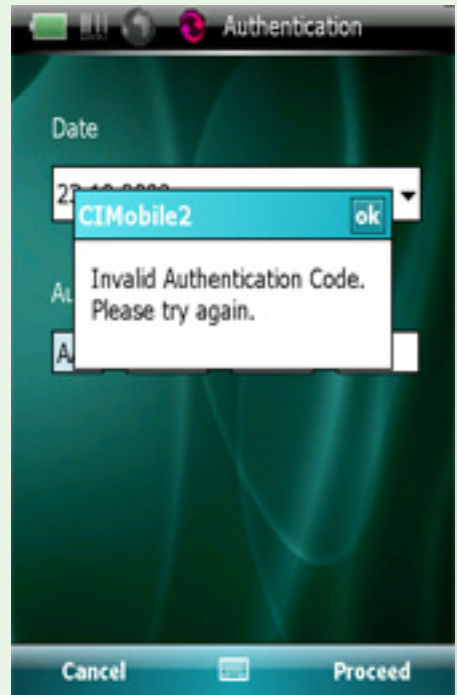
Langkah 2:

Menu **Check Point** ini akan terapar.



Langkah 3:

Masukkan **Authentication Code** ke dalam petak yang berkenaan.



Langkah 4:

Masukkan semula **Authentication Code** jika tidak berjaya.



Langkah 5:

Tekan butang **Logout** untuk menamatkan proses.