

JICA CUP2 Project

**Kawa itunganyije
ntamazi igahugutishwa
ahatagera umwuka**



7. Kawa itunganyije ntamazi igahugutishwa ahatagera umwuka

Ibyiza
by'ubu
buryo

- Guhanga uburyohe n'impumuro byihariye kandi binyuranye, harimo icyanga cyumvikana n'impumuro z'imbutu.
- Kubyara uburyohe buhebuje budahinduka.

Ibisabwa
byiza

1. Igipimo cy'isukari hejuru ya 18.0
2. Bisaba ahatagera umwuka wa ogisijeni kugira ngo utunyabuzima dukanguke nko mu itanki cg imifuka ya GrainPro

Ibyiciro

1

Gusarura

2

Kijonjora

3

Guhera

4

Guhuguta
ahatagera
umwuka

5

Kwanika

6

Kubika

UMUNSI 1

Umunsi1-9
(Amasaha 192)

Umunsi 10
(Iminsi 25-30)

-



7. Kawa itunganyije ntamazi igahugutishwa ahatagera umwuka

Intambwe ya 1: Gusarura

Intego: Ikawa ihishije ifite isukari nyinshi n'icyanga bitanga impumuro

Ibikoresho bikenewe



Koresha
igisarurirwamo
mugihe cyo gusarura
kawa



Sasa **shitingi**
munsi y'igiti
itangire ikawa
yaguye hasi



Koresha **imifuka**
isa neza
mugukusanya
umusaruro

Ingingo nyamukuru

① Gusarura **ibitumbwe bihishije neza gusa**



Kuberako....



70kg



100kg

Uburemere

Igiciro ku
muhinzi

Igiciro

700rwf/kg

49,000rwf

700rwf/kg

70,000rwf



② Tangira gusarura
mugitondo.



③ Geza kawa
kuruganda **mugihe**
cy'amasha 8 nyuma
yo gusarura



④ Ntutore kawa yaguye
kubutaka, Kumira
ubwandu



⑤ Shyira umusaruro
wa kawa **ahatagera**
izuba uyirinde ihuguta
ryihuse

7. Kawa itunganyije ntamazi igahugutishwa ahatagera umwuka

Intambwe ya 2: Kujonjora – Kujonjora hagendewe ku ibara

Intego: Gushyira kawa mubyiciro – Izihishije/ izidahishije/ izarengeranye

Ibyitabwaho ①

70% ya kawa **ihishije neza**

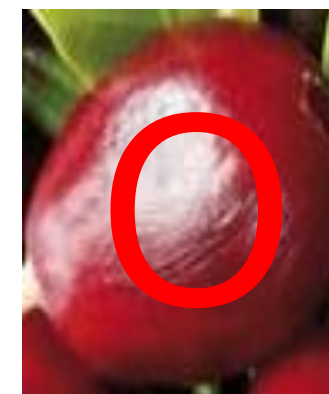


Ibyitabwaho ②

Isukari: Hejuru ya 18.0



10.0



18.0

7. Kawa itunganyije ntamazi igahugutishwa ahatagera umwuka

Intambwe ya 3: Guhera

Intego: Gukuraho igishishwa hadakuweho umurenda

Ibikoresho

Gukoresha **imashini ihera**
(ikoresha amazi macye)



Ingingo nyamukuru

① Imashini ihera
yakabaye **ikoresha**
amazi macye
idakuraho umurenda



② **Kuregera**
imashini, ingano
y'ibitumbwe
n'umuvuduko
hirindwa ko kawa
yangirika.



③ **Koza imashini**
burimunsi hirindwa
kwanduza kawa



Ibyitabwaho

Fata intete za kawa 100 ugenzure niba
izangiritse ziri munsi ya 10% kandi
niba imbuto zitatonowe neza ziri
munsi ya 10%.

+

Genzura kawa nyuma yo gusatura
kugira ngo urebe ko umurenda
utatakaye cyane. Uregere imashini
igihe ari hejuru ya 10%



7. Kawa itunganyije ntamazi igahugutishwa ahatagera umwuka

Intambwe ya 4: Guhugutisha ntamwuka wa oxigene

Intego: Kugera ku ihuguta ntamwuka kugira ngo haboneke kumpumuro zigamijwe

Ibikoresho



Tanki ifunze neza kugirango umwuka utinjira imbere

Cyangwa



Isashe ya GrainPro

Ingingo nyamukuru

① **Ahatagera umwuka:** Tanki ifunze neza cg umufuka wa GrainPro **bigomba kuba bifunze neza** hirindwa ko umwuka winjiramo.



② **kugenzura ubushyuhe n'ubuherehere:** Tereka ahatwikiriye aho ubushyuhe n'ubuherehere bidahindagurika.



③ **Igihe guhuguta bimara:** Byakagombye kugenzurwa. Igihe cyagenywe ni amasaha **192 (iminsi 8)** bitewe nibikenewe kw'isoko



Ibyitabwaho

① **Impumuro:** kwirinda impumuro y'umushari/ vinegre.



② **Ibara:** Kureba ko kawa yahinduye ibara



③ **pH:** yagombye kuba hagati ya **4.0 – 5.0** nyumya yo guhuguta
**Ariko byahinduka bitewe n' icyo umuguzi yifuza*



7. Kawa itunganyije ntamazi igahugutishwa ahatagera umwuka

Intambwe ya 5: Kwanika

Intego: Kugabanya ubuhehere hadakuweho umurenda utanga uburyohe

Ibikoresho



shadineti n'isashe hirindwa ubushyuhe bwinshi, imvura n'urume



Rato y'igiti muguhindura kawa hadakuweho umurenda



Igipima ubuhehere (moisture meter)

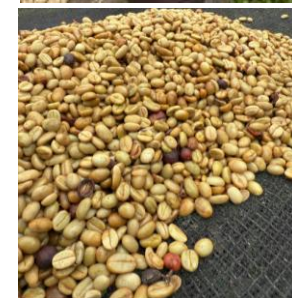
Ingingo z'ingenzi

- ① **Gucunga ubushyuhe bwa kawa:** koresha **shadineti** mugutwikira hirindwa ubushyuhe hagati ya 11:00-15:00 **Byahinduka bitewe n'imiterere y'ikirere*
- ② **Gucunga ubuhehere:** Pfuka kawa ukoresheje pulasitiki kugira ngo irindwe imvura n'ikime.
- ③ **Kuruhuka:** Umunsi umwe mu cyumweru, pfuka parchment neza yose
- ④ **Kumira rimwe:** Korogosha kawa inshuro 4 ku munsi kugira ngo yumishwe neza. Ubunini bw'urutonde rwa kawa: 3cm (icyumweru cya mbere) → wongere nyuma.



Ibyitabwaho

- ① **Ubushyuhe:** Hagamijwe **10.5-11.5%** mubihe byiza. Pima ubuhehere 2 kumunsi.
- ② **Igihe:** Byibuze **iminsi 25-30**. kwanika bigomba gukurikirana hirindwa kuma vuba kandi insigane.
- ③ **Ubuhehere bwa kawa:** Ubushyuhe bwakagombye guhora **munsi ya 35 °C** hirindwa kwangiza kawa.



Intambwe 6: Kubika

Ikigenderewe: Kugumisha kawa kukigero kimwe nyuma yo kwanika hagamijwe gucuruza no Gutonora

Ibikoresho

Palet hirindwa kwangirika
(Urugero: Amazi, udukoko)



Ingingo nyamukuru

- ① **Kugenzura ubuhehere:** Kugumisha kawa kubwume bwa **10-12%** *genzura igipimo cy'ubuhehere niba ububiko bushyushye cyangwa bukonje cyane.



- ② **Kohereza umwuka/guhungiza:** Kugenzura umwuka winjira n'usohoka hirindwa urume n'ubuhehere bwo hejuru



Ibyitabwaho

- ① **Ubushyuhe:** Gukomeza ubushyuhe bwa **15–23°C** hirindwa kwangirika



- ② **Ubuhehere:** Gukomeza ubuhehere kuri **50–70%** hirindwa uruhumbu



- ③ **Kuruhuka:** Kawa igomba kubikwa hafi **amezi 2** kugira ngo ubushuhe bwayo bugume ku gipimo gihamye.

