



**BALAI BESAR PENERAPAN
STANDAR INSTRUMEN PERTANIAN**
BADAN STANDARDISASI INSTRUMEN PERTANIAN
KEMENTERIAN PERTANIAN



MODUL 04

PENGUATAN KAPASITAS PENGELOLAAN MANAJEMEN POSLUHDES

APLIKASI LAYANAN KONSULTASI PADI (LKP)



AGROSTANDAR



BSIP PENERAPAN

STANDARD . SERVICES . GLOBALIZATION

www.bbpsiip.bsiip.pertanian.go.id



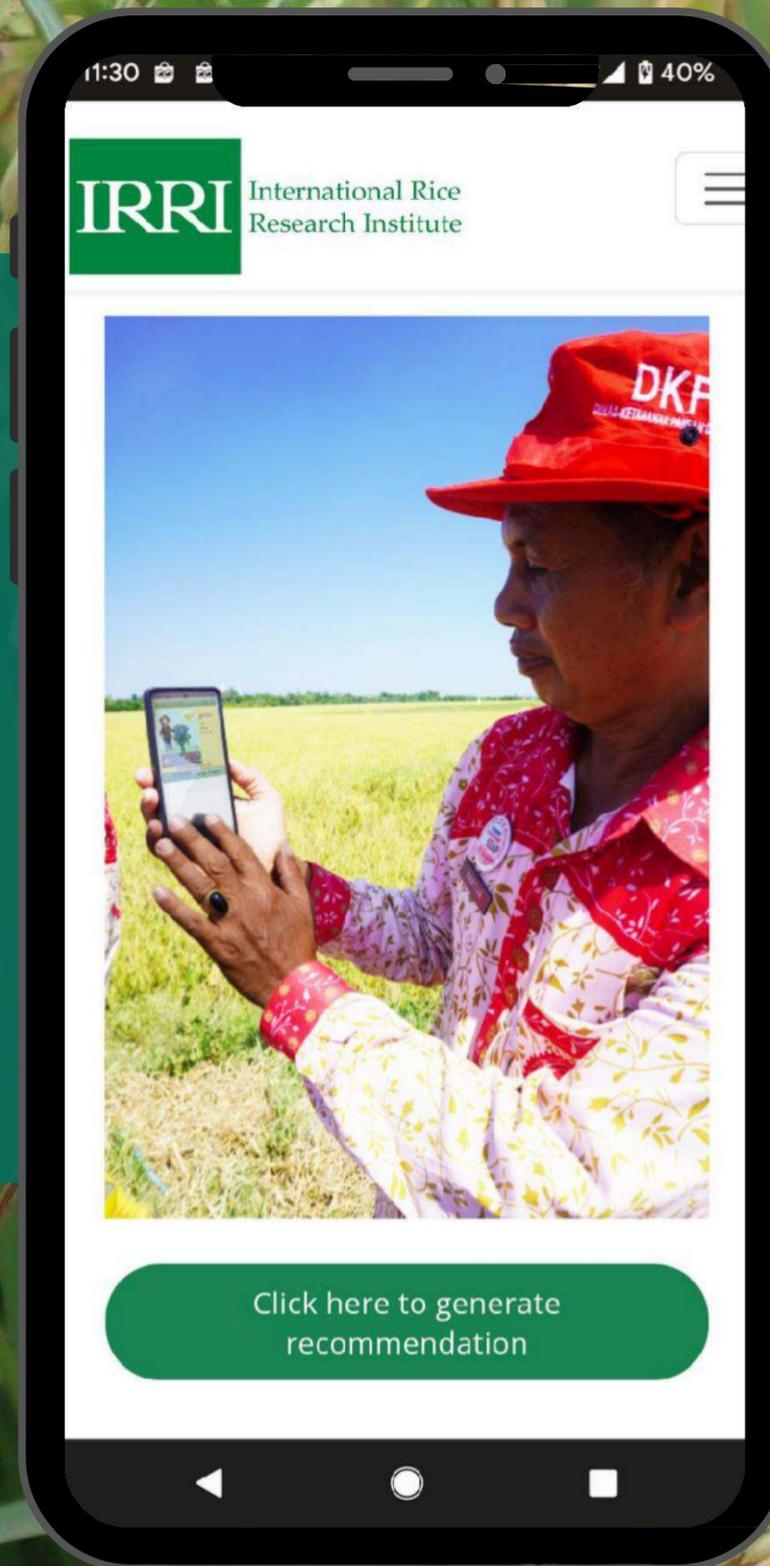
Layanan Konsultasi Padi (LKP) Provinsi Jawa Barat

Tim LKP BSIP Jawa Barat

 jabar.bsip.pertanian.go.id

  BSIP Jawa Barat

  @bsipjabar



Permasalahan di Jawa Barat



- 01 Konversi lahan sawah
- 02 Sarana irigasi terdegradasi
- 03 Kesuburan tanah yang semakin menurun
- 04 Meningkatnya harga pupuk dan berkurangnya subsidi yang dialokasikan pemerintah membuat petani harus lebih memperhitungkan penggunaan saprodi terutama pupuk dengan tingkat hasil yang akan diperoleh



- Layanan Konsultasi Padi (LKP) merupakan teknologi hasil kerja sama antara Badan Standardisasi Instrumen Pertanian (BSIP) dengan International Rice Research Institute (IRRI) yang sebelumnya diberi nama Pemupukan Hara Spesifik Lokasi (PHSL)
- Teknologi LKP diluncurkan pada akhir 2015 dan telah dievaluasi di agroekosistem lahan sawah irigasi, tadah hujan, dan rawa pasang surut
- Ditunjukkan untuk para PPL dan petani sebagai pedoman dalam menentukan takaran dan waktu pemberian pupuk spesifik lokasi sesuai dengan kebutuhan tanaman

Manfaat Aplikasi LKP



Pengukuran terhadap dosis pupuk dan waktu pemberian lebih akurat



Efektifitas dan efisiensi lebih baik, terutama untuk input biaya produksi



Efektif dan efisien dalam proses difusi inovasi teknologi



Mengurangi intensitas serangan hama & penyakit



Meningkatkan produktivitas padi sehingga meningkatkan pendapatan petani

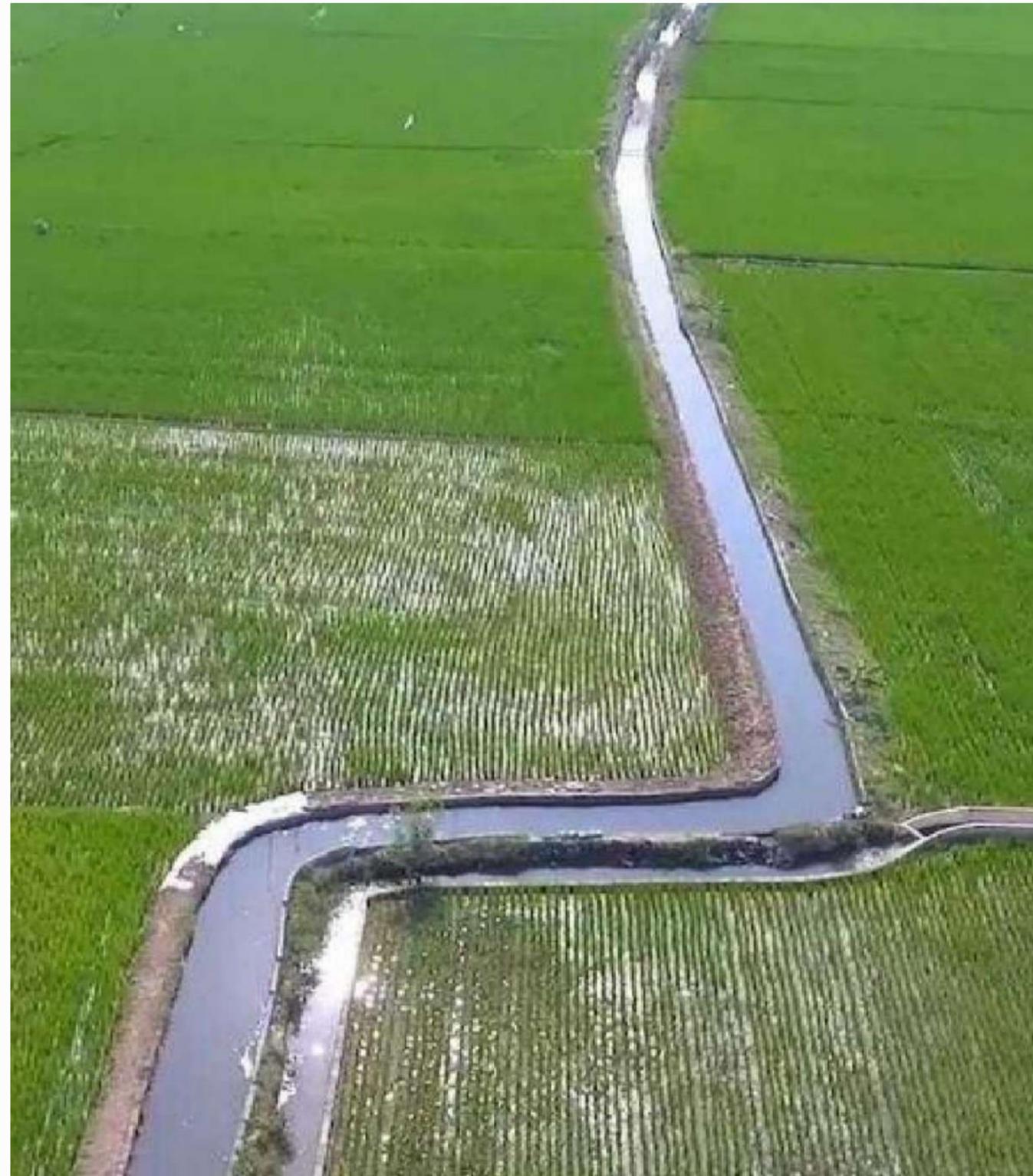


Peningkatan Produktivitas pada Lahan Sawah **Irigasi**

20-46%

- Hasil penerapan rekomendasi LKP pada lahan sawah irigasi di Jabar, DIY, dan Sumut
- Peningkatan produktivitas dari 5,4 - 6,5 ton/ha menjadi 6,5 - 8,2 ton/ha GKG

*Seminar hasil kegiatan yang digelar Puslitbangtan secara hybrid di BPTP Sumut (16/11/2021)



Peningkatan Produktivitas pada Lahan Sawah **Tadah Hujan**

19 - 27%

- Hasil penerapan rekomendasi LKP pada lahan sawah tadah hujan di Banten dan NTT
- Peningkatan produktivitas dari 4,5 - 4,6 ton/ha menjadi 5,4 - 5,9 ton/ha GKG

*Seminar hasil kegiatan yang digelar Puslitbangtan secara hybrid di BPTP Sumut (16/11/2021)



Peningkatan Produktivitas pada Lahan Sawah **Pasang Surut**

50-74%

- Hasil penerapan rekomendasi LKP pada lahan sawah pasang surut di Sumsel dan Kalteng
- Peningkatan produktivitas dari 3,4 - 3,6 ton/ha menjadi 5 - 6,2 ton/ha GKG

*Seminar hasil kegiatan yang digelar Puslitbangtan secara hybrid di BPTP Sumut (16/11/2021)





Tujuan Kegiatan LKP

- Meningkatkan pendapatan dan hasil panen petani padi di Indonesia
- Berkontribusi pada tujuan pemerintah Indonesia untuk kesejahteraan pedesaan, ketahanan pangan, kelestarian lingkungan dan mitigasi serta adaptasi terhadap pandemi dan perubahan iklim saat ini



Terobosan mengatasi permasalahan tersebut ???



**Penggunaan IT dan web untuk
pemupukan tanaman pangan**



**Inisiasi pengembangan
Software LKP di Jawa Barat**



Praktek Penggunaan Aplikasi Layanan Aplikasi Padi (LKP)

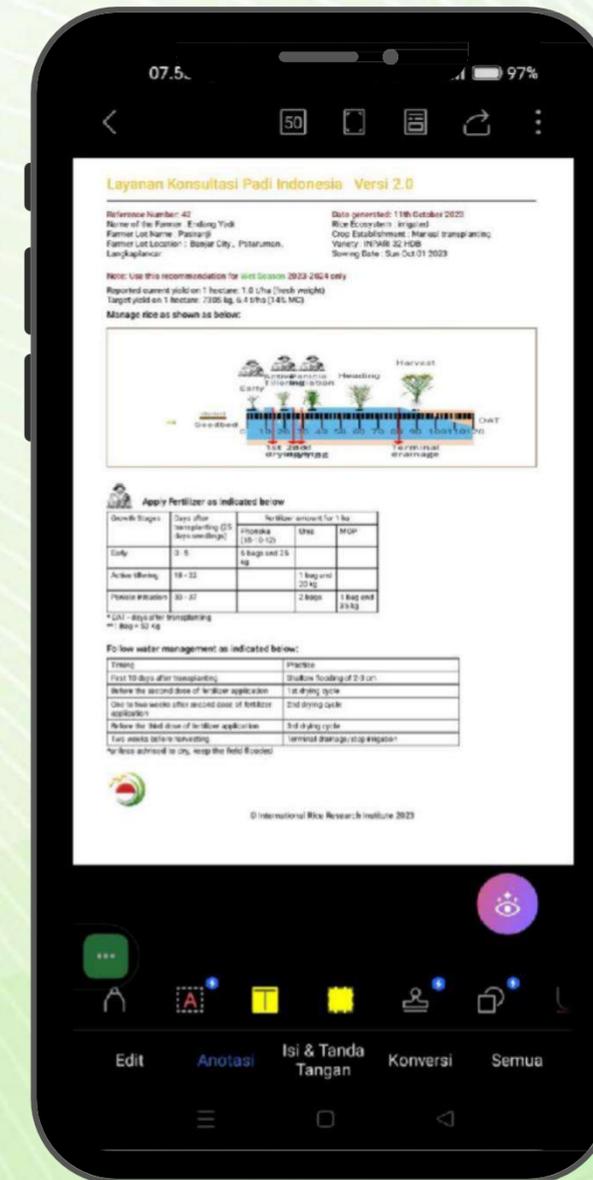
Hasil Rekomendasi

Hasil Rekomendasi adalah **dosis pupuk** yang sangat spesifik per luasan petak sawah
(Diibaratkan: seperti resep obat untuk orang per orang)

Metode

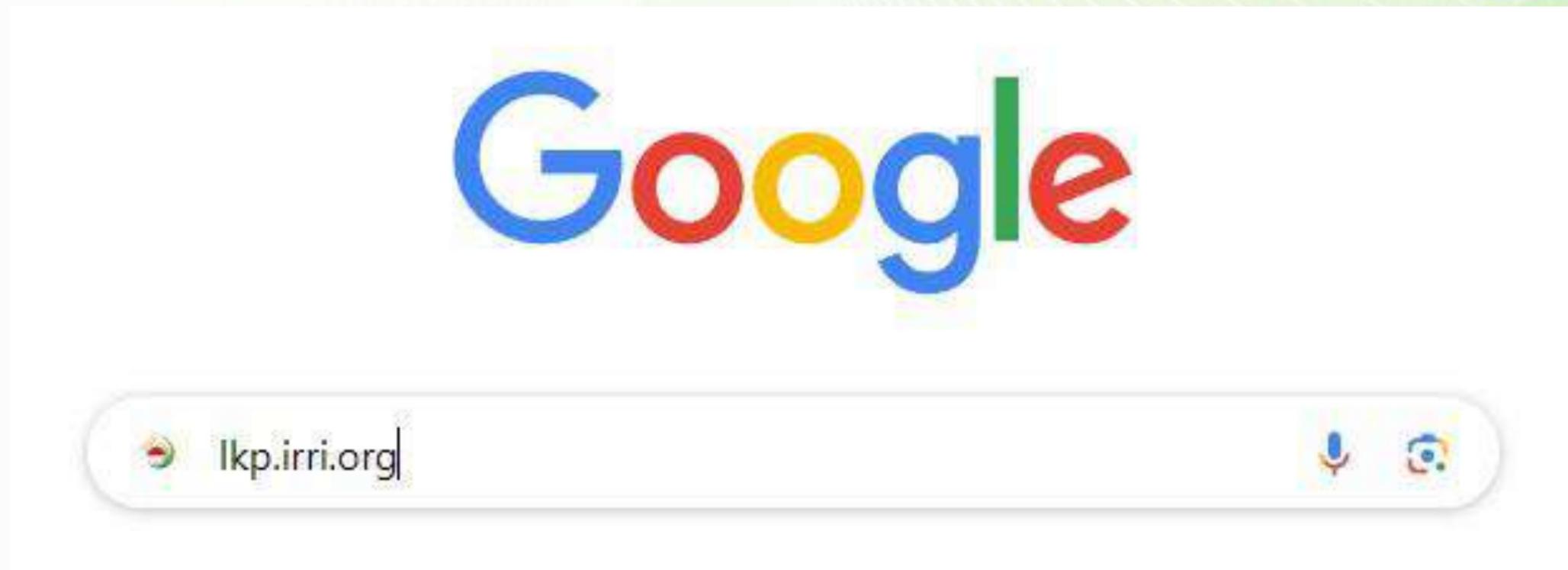
Penyuluh mewawancarai petani atau petani mengisi sendiri

1. Siapkan petani yang akan di wawancarai
2. Gunakan Hp yang berbasis Android
3. Pastikan sinyal internet baik

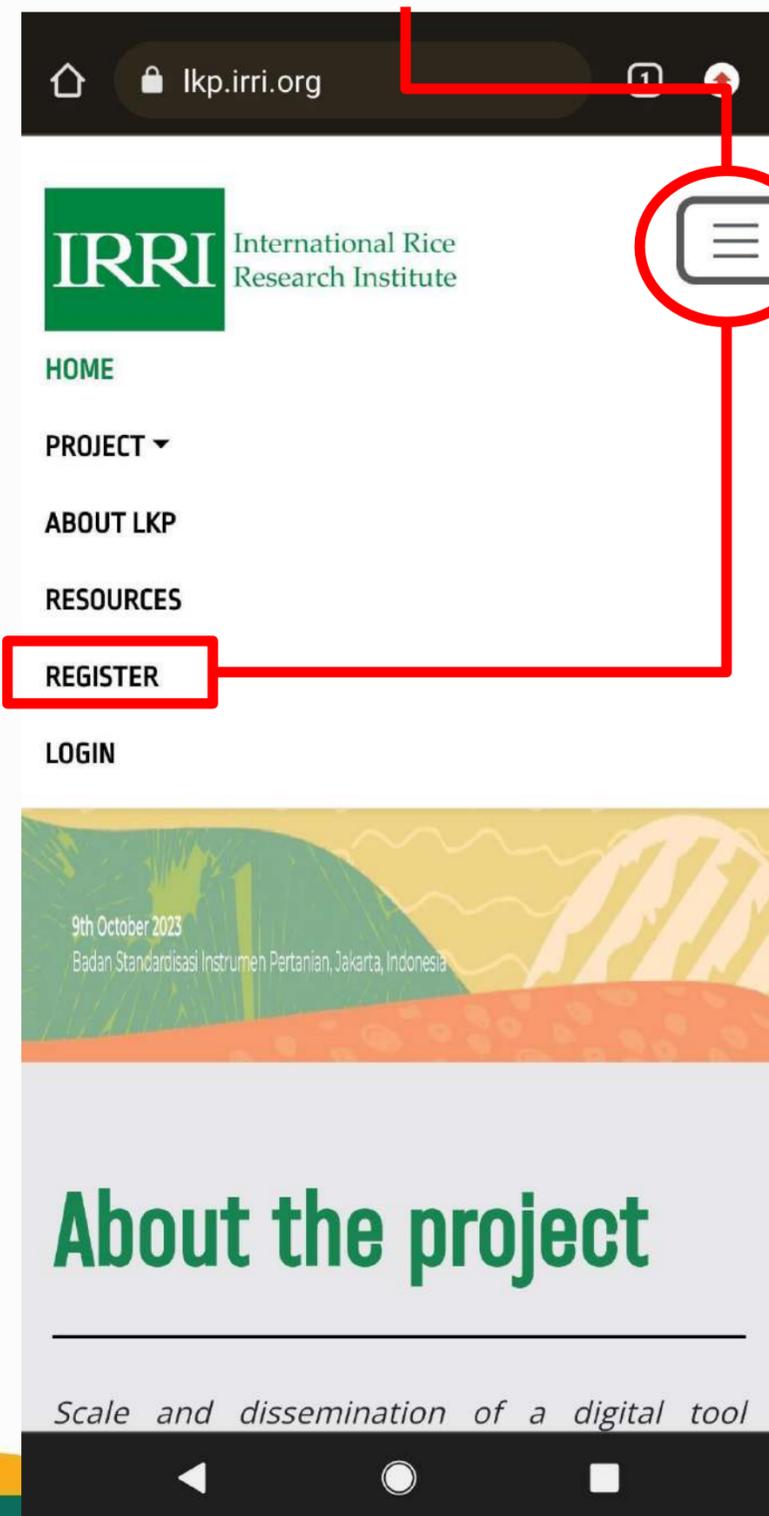


1. Masuk ke layanan browser lalu ketik:

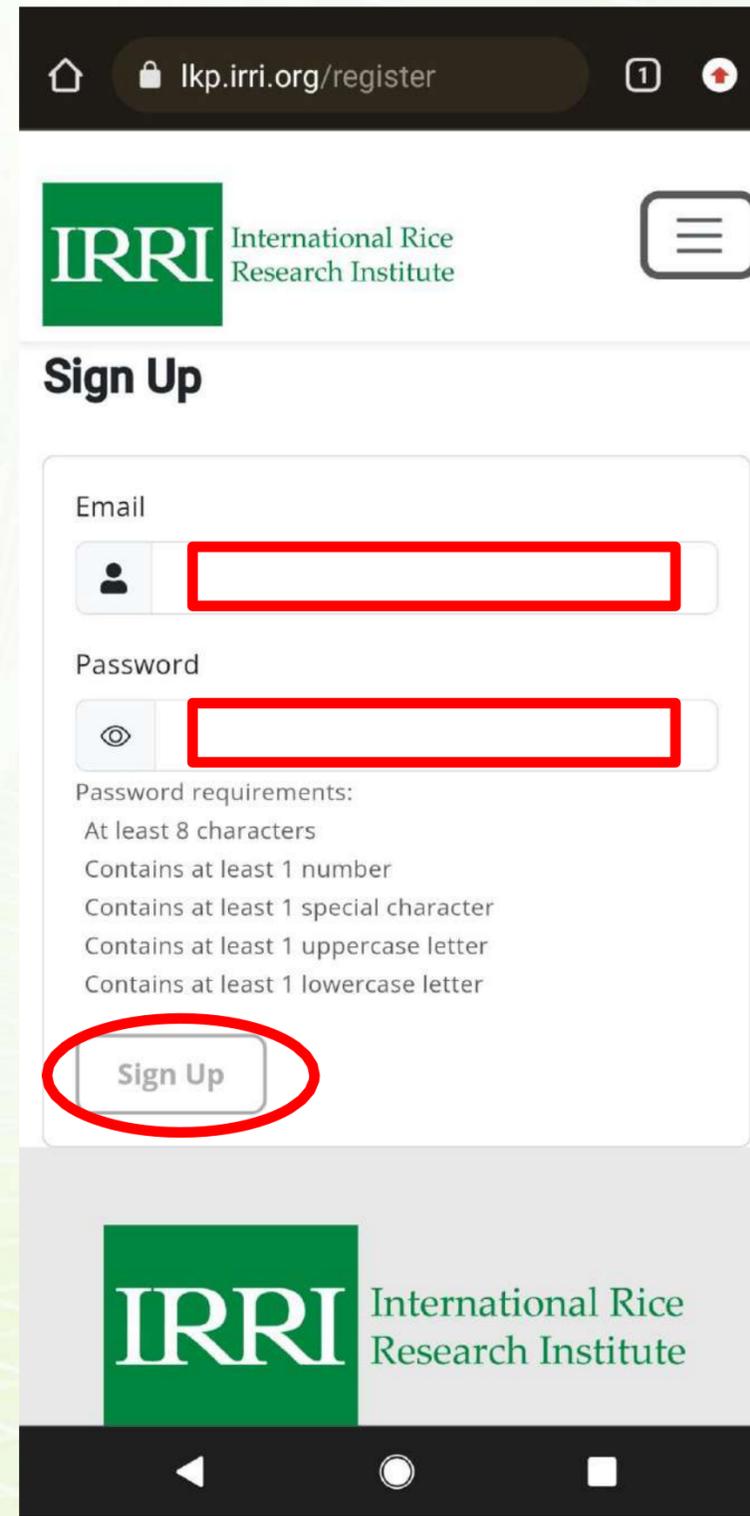
lkp.irri.org



2. Register Akun



3. Isi Email & Password

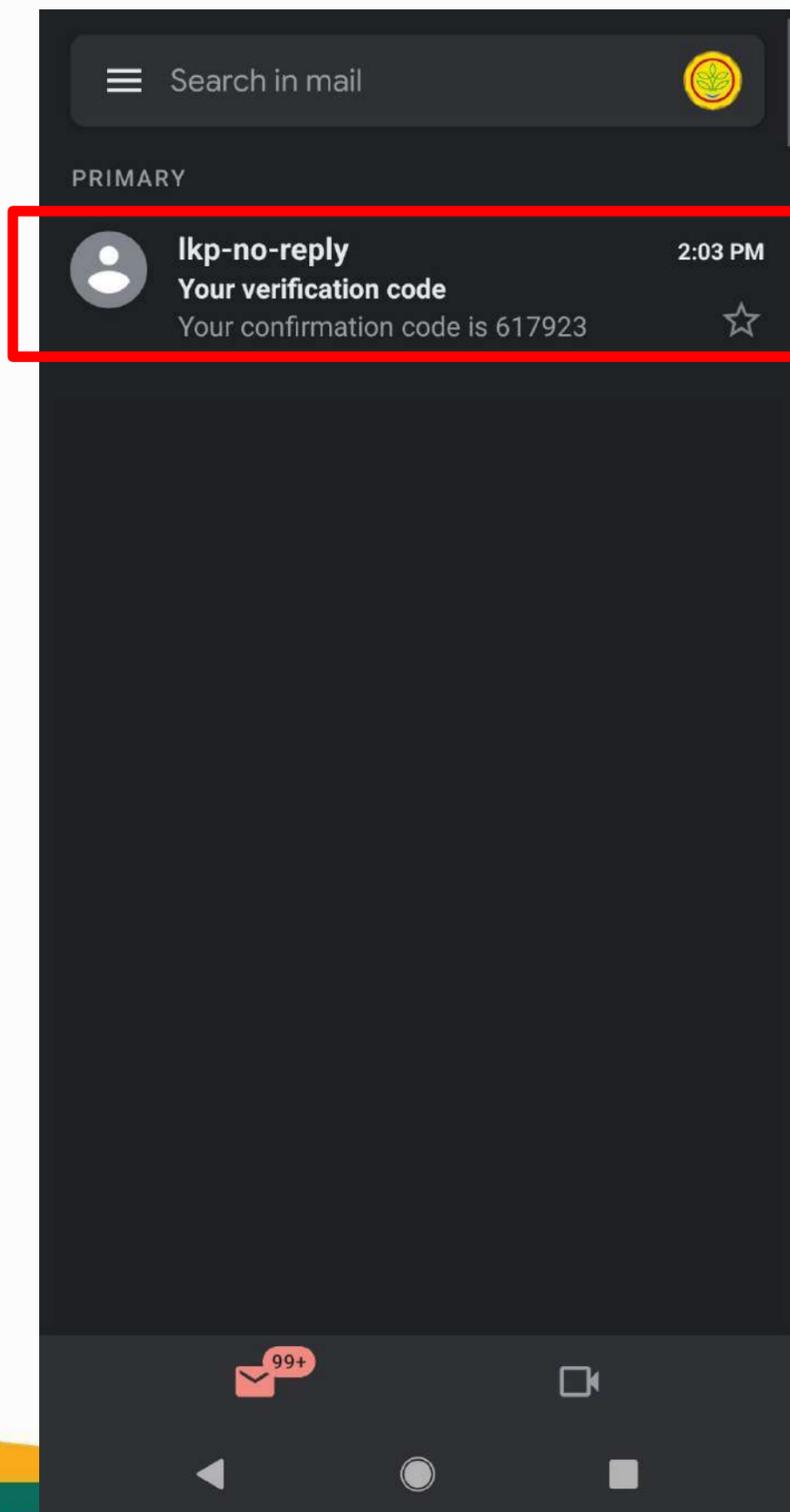


Pastikan menggunakan email aktif

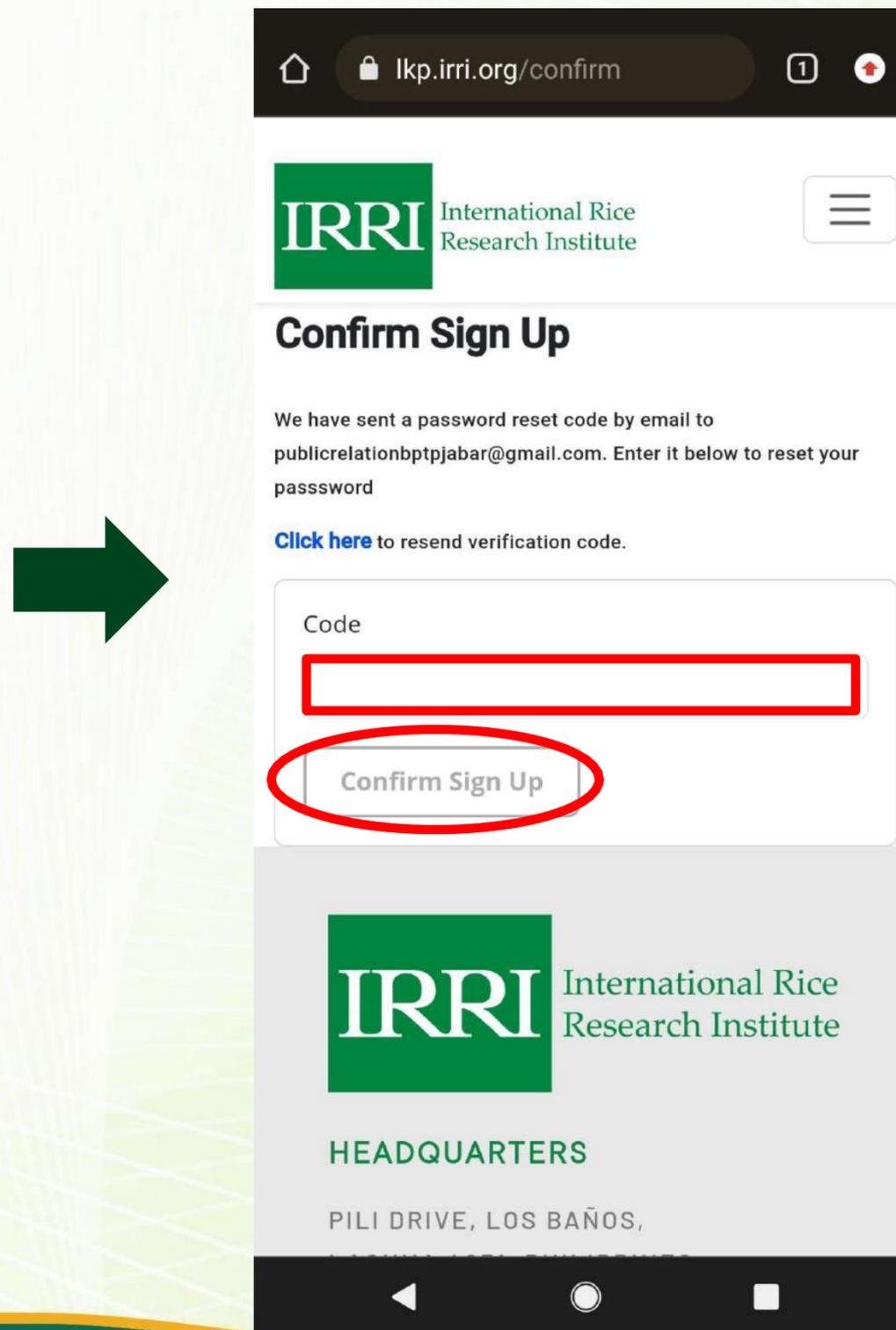
Kriteria Password :

1. Lebih dari 8 karakter
2. Ada angka
3. Ada special karakter (@,!,%,dll)
4. Ada huruf besar dan huruf kecil

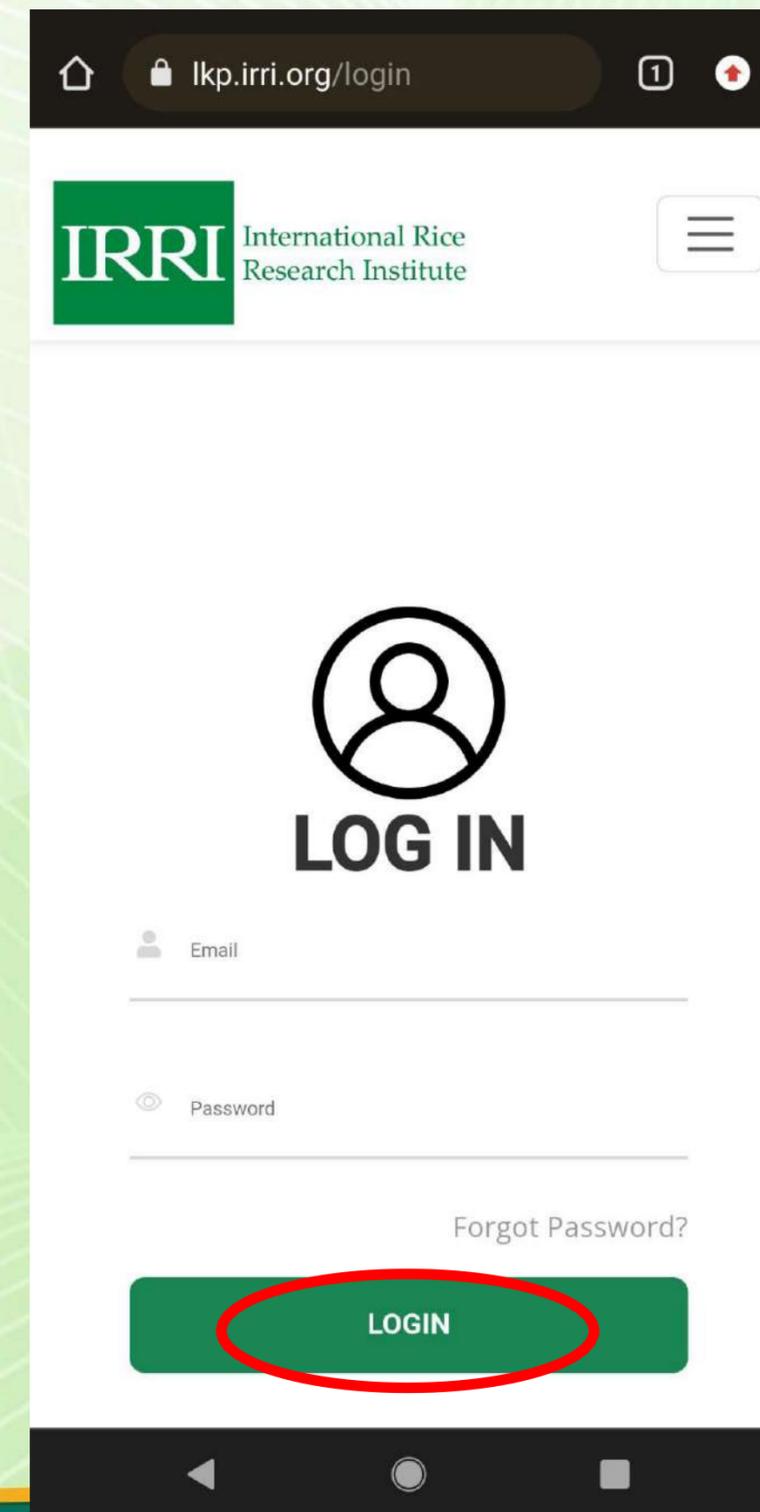
4. Buka email



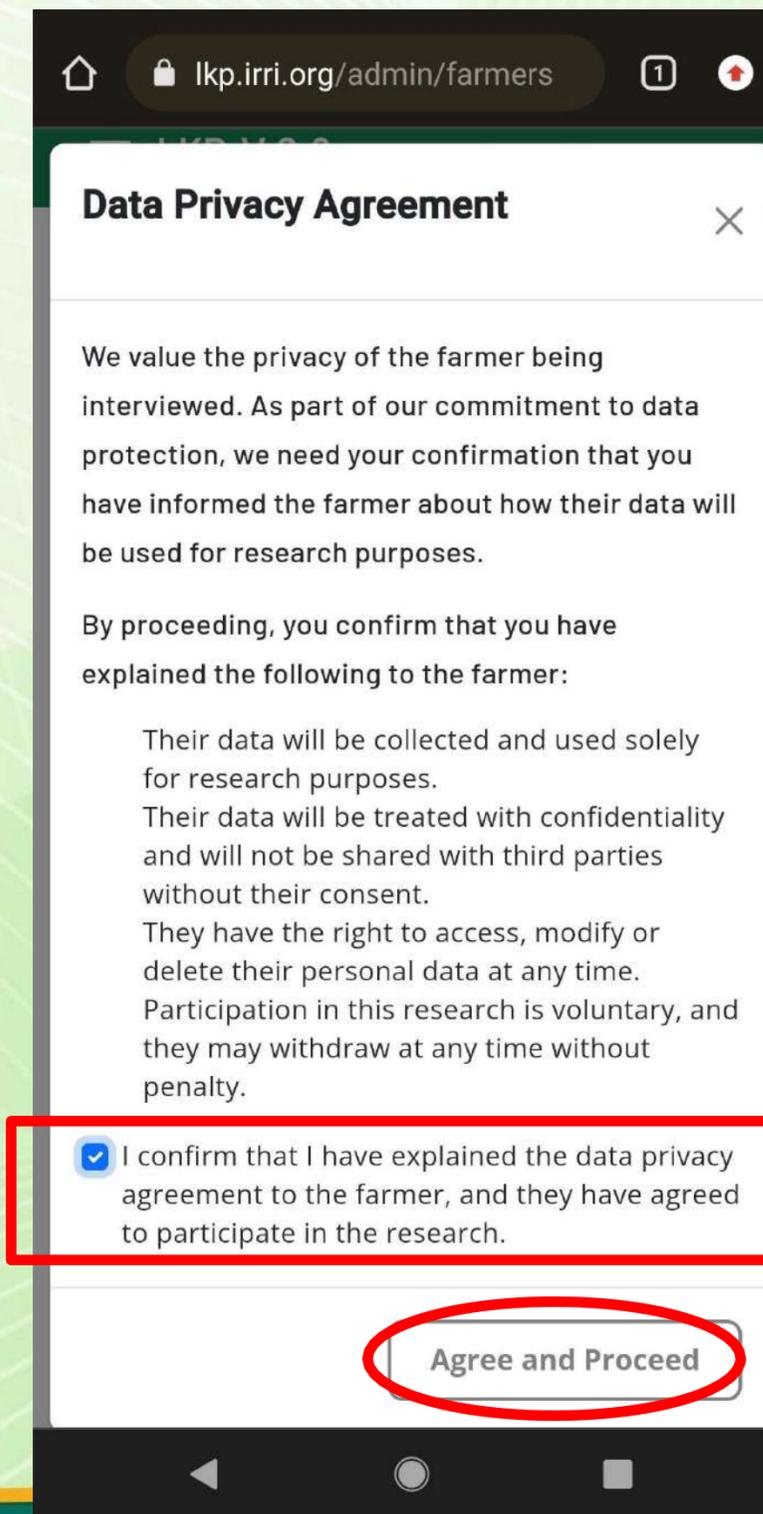
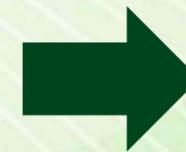
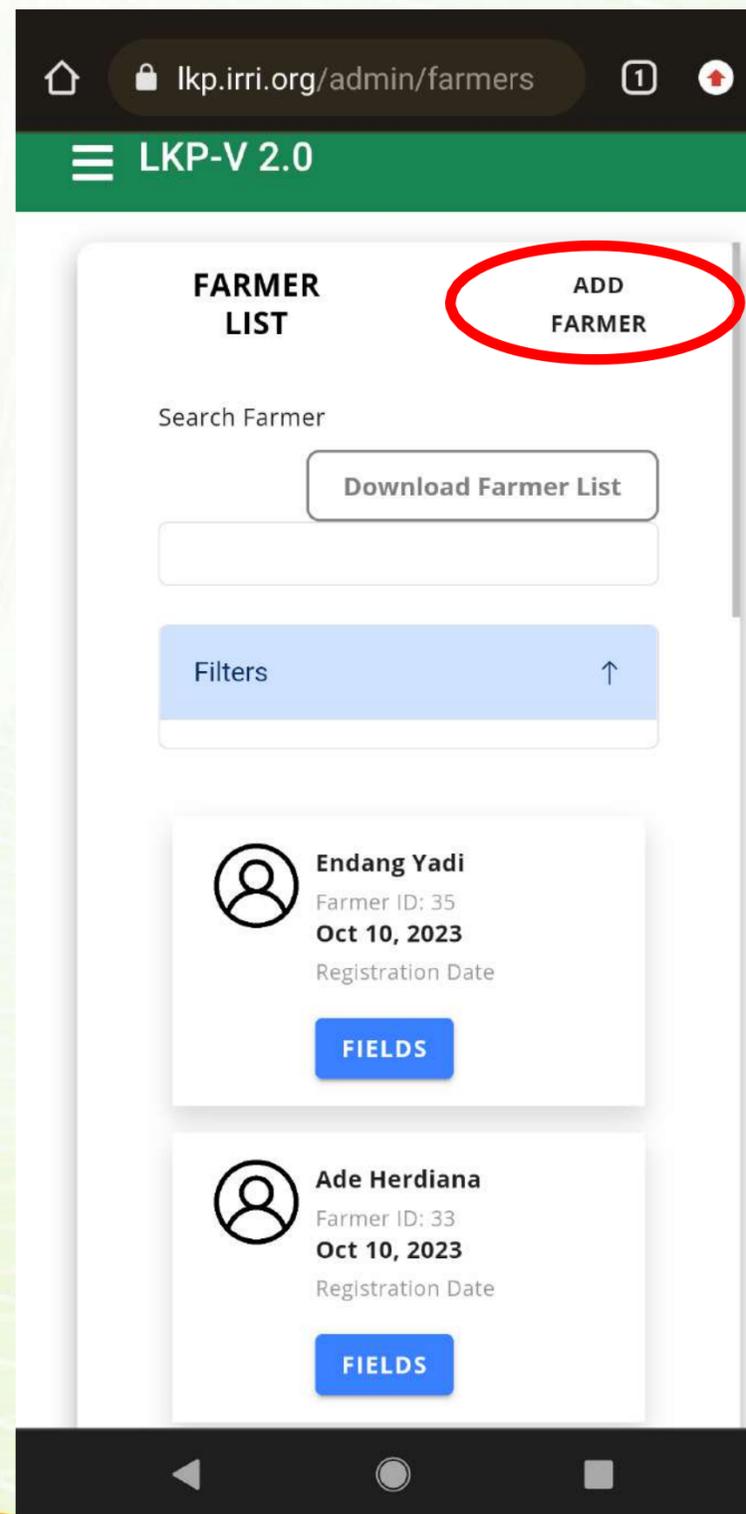
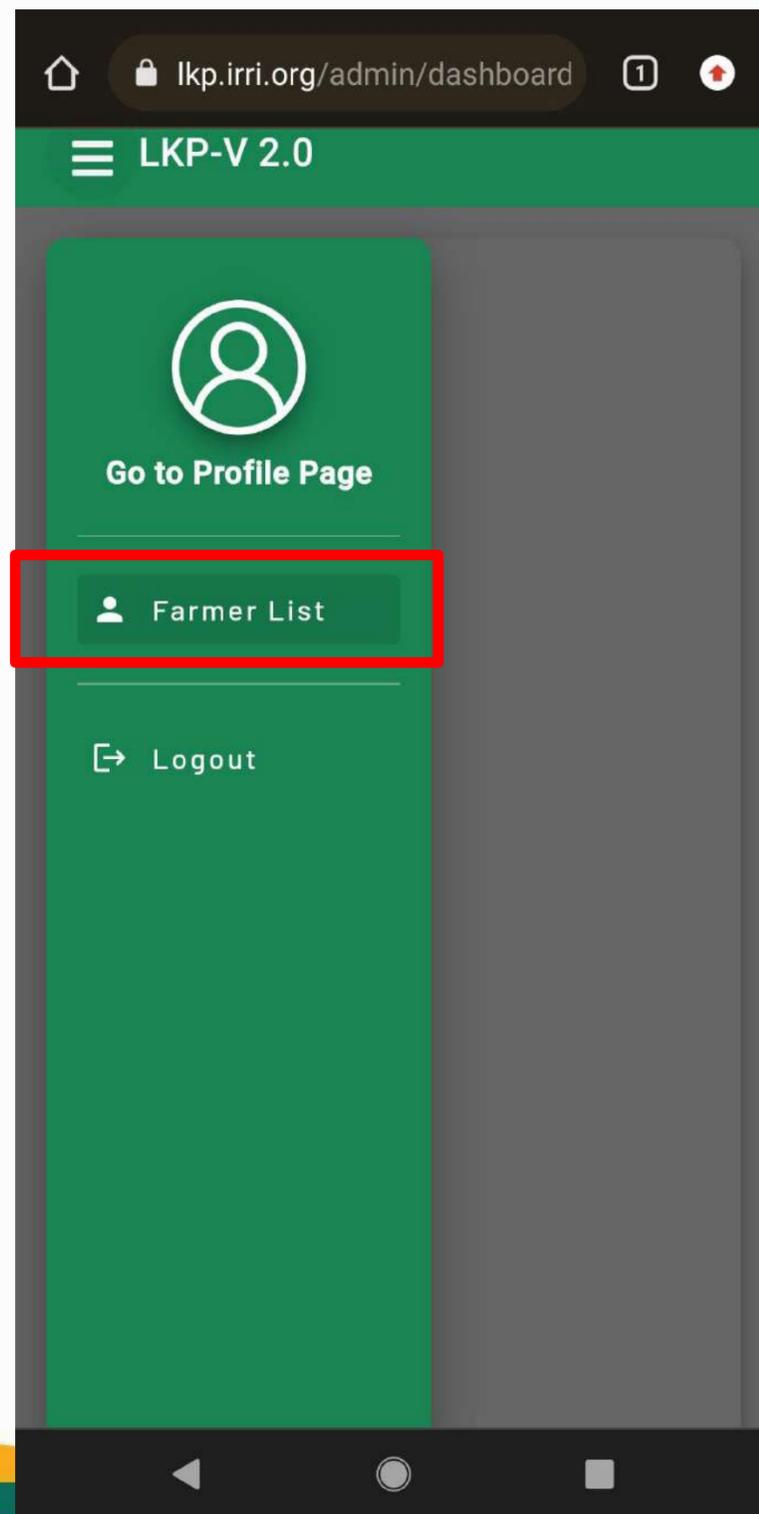
5. Masukkan kode verifikasi



6. Login



7. Masukkan data PETANI



7. Masukkan data PETANI (isi sesuai kondisi di lapangan)

lkip.irri.org/admin/farmers

LKP-V 2.0

FARMER LIST ADD FARMER

First Name*
Ahmad

Last Name*
Farhan

Birth Date*
10/01/1980

Sex*
Male

Phone Number / WhatsApp Number*
08123456789

Province*
West Java

District*
Indramayu

lkip.irri.org/admin/farmers

LKP-V 2.0

What type of farmer are you?*

- Typical Farmer (Petani)
- Seed Grower (Petani penangkar benih)
- Contract Farmer (Petani kontrak)
- Swadaya Extension Worker (Penyuluh swadaya)
- Farmer Cooperator (Petani kooperator)
- Local Farmer Technician (Petani pengguna inovasi teknologi unggul)
- Advanced Farmer (Petani berbasis mesin budidaya pertanian)
- Scientist Farmer (Petani ahli/pemulia)

Member of Farmer Organization*
 Yes
 No

Name of Farmer Organization*
Sri Rengas

lkip.irri.org/admin/farmers

Sri Rengas

FARMER ID:
Upload picture

Would you like to receive rice farming advisory though your provided mobile/WhatsApp number?*

- Yes
- No

Submit

lkip.irri.org/admin/farmers

Sri Rengas

Farmer
Farmer registration successful!

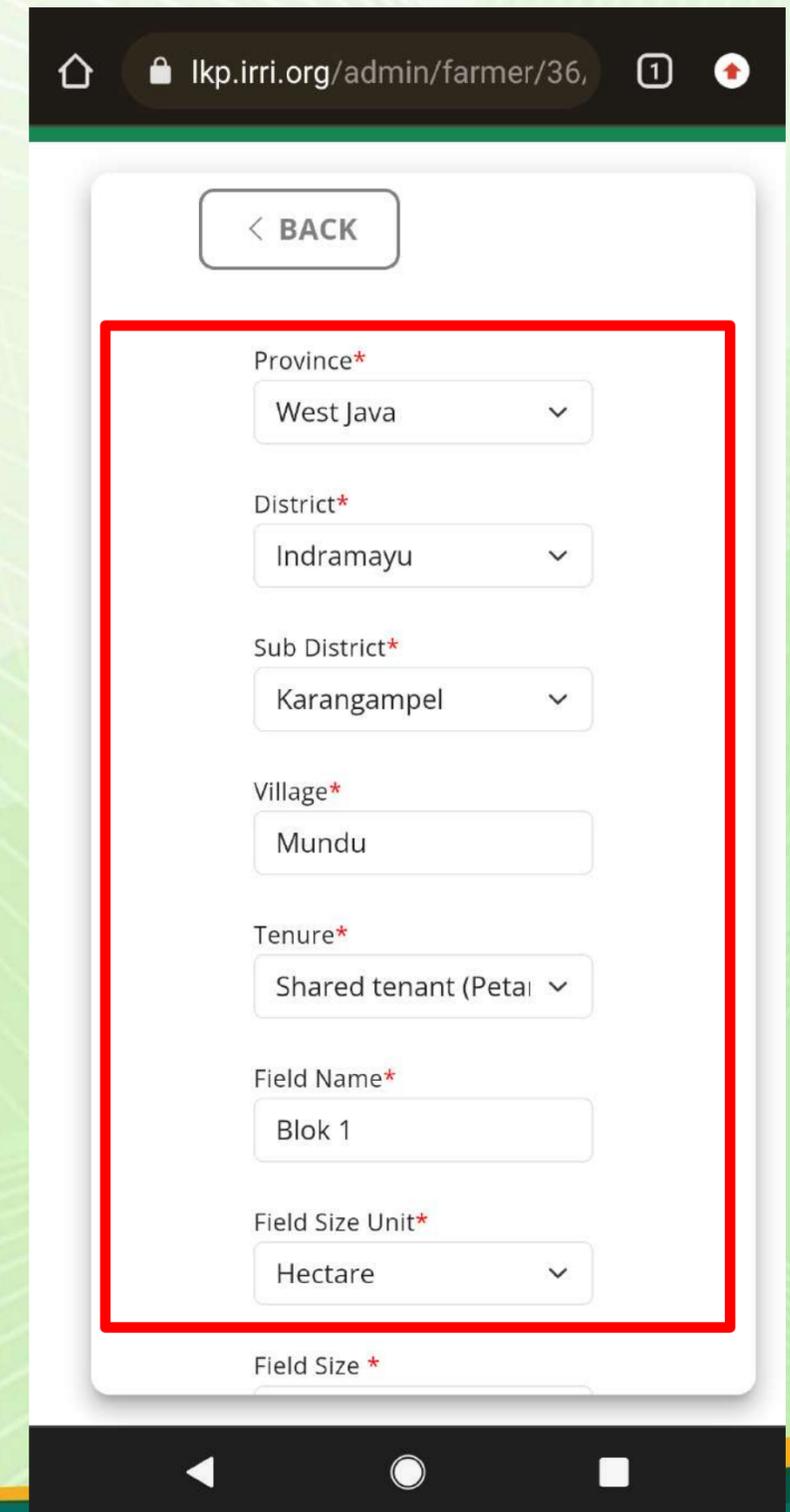
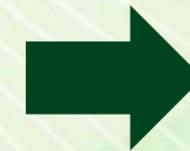
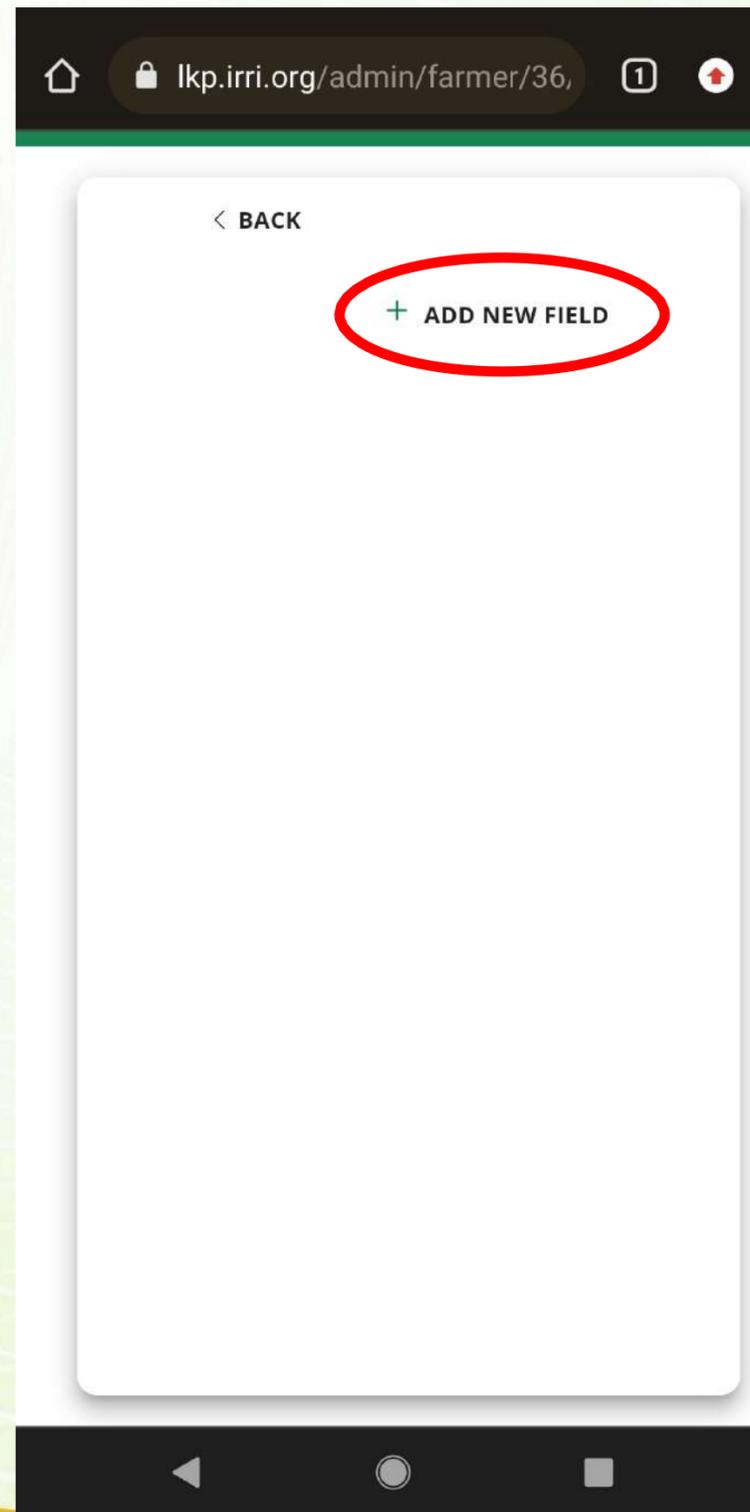
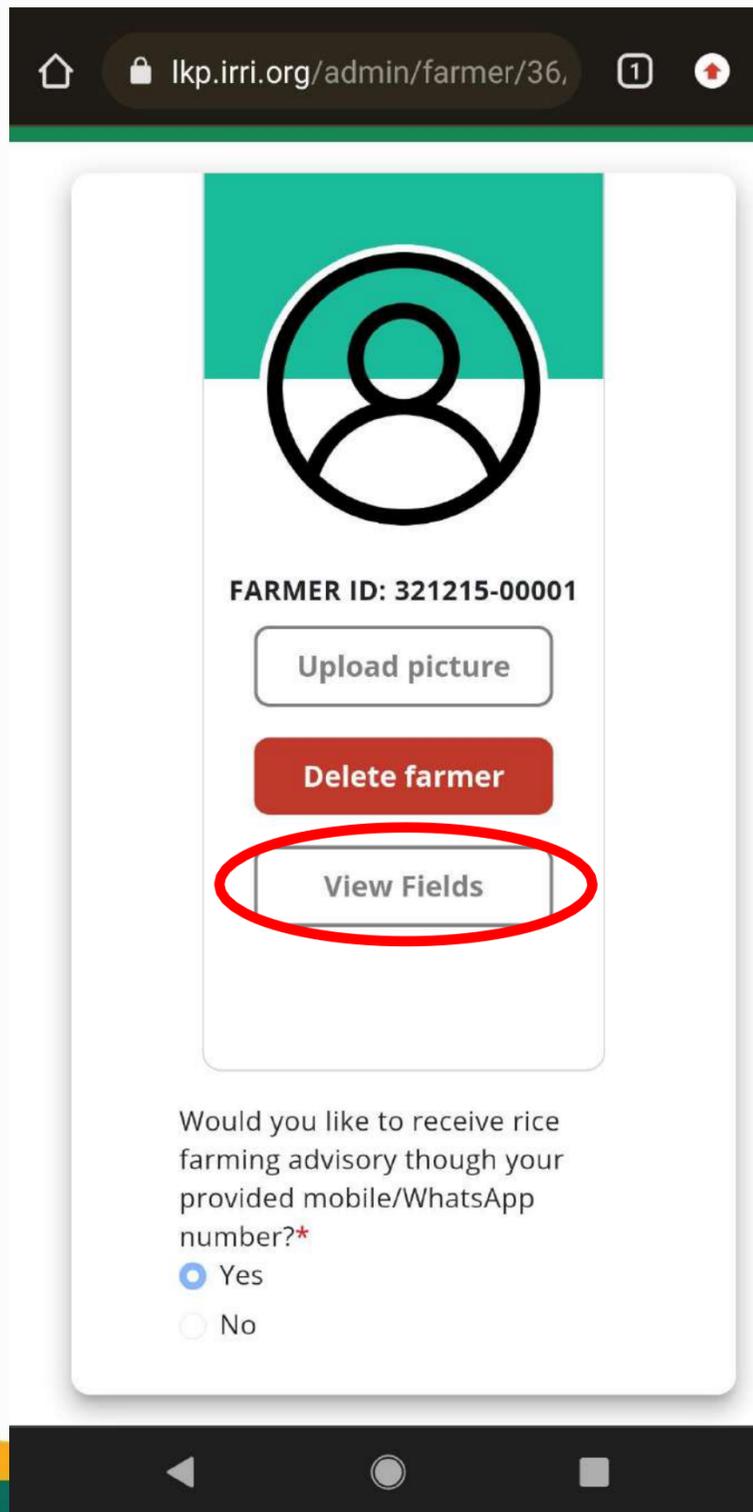
OK

Would you like to receive rice farming advisory though your provided mobile/WhatsApp number?*

- Yes
- No

Submit

7. Masukkan data LAHAN PETANI



7. Masukkan data LAHAN PETANI

Field Size: 1 Ha

Ecosystem *

- Irrigated
- Rainfed
- Tidal Swamp

Number of Crops *

- One
- Two
- Three

Typical Season Information

ADD RECORD

Typical Season Information

Season*

- Wet Season
- Dry Season

Water Status*

- Adequate water supply during rice growth; no yield loss from drought or flooding
- Shortage of water during crop rice growth resulted in yield loss
- Submergence or flooding that resulted in yield loss

Enter the typical yield for Wet Season from your 1 Hectare field with no pest or disease. *

Ton 6

= 6 t\ha fresh weight

Submit

LKP-V 2.0

Plant

Plant record added successfully!

OK

Season	Wet Season
Unit	Ton
Yield input	6
Fresh Yield (t/ha)	6.0

LKP-V 2.0

Dry Yield (t/ha) 5.2

Water Status Adequate water

Action

Delete Field

Submit

8. Jawab pertanyaan sesuai kondisi petani

lkp.irri.org/admin/farmer/36, LKP-V 2.0

< BACK

+ ADD NEW FIELD


Field name: Blok 1
Field Id: 31
Field size: 1 Hectare
Location: West Java
Indramayu

Android navigation bar



lkp.irri.org/admin/farmer/36, LKP-V 2.0

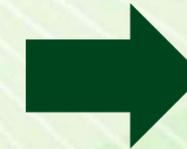
Typical Season Information

ADD RECORD

Season	Wet Season
Unit	Ton
Yield input	6.00
Fresh Yield (t/ha)	6.0
Dry Yield (t/ha)	5.2
Water Status	Adequate water
Action	 

List of Generated Recommendations

Android navigation bar



lkp.irri.org/admin/farmer/36, LKP-V 2.0

1 Module 1: Field information

Do you have control of irrigation?

No
 Yes

Are you planting in the whole field?

No
 Yes

Next

2 Module 2: Set target yield

3 Module 3: Determine fertilizer r...

4 Module 4: Determine timing, spl...

Android navigation bar

8. Jawab pertanyaan sesuai kondisi petani

The image displays three sequential screenshots of the LKP-V 2.0 mobile application interface, showing the user's progress through the modules. The browser address bar in all screenshots is `lkp.irri.org/admin/farmer/36`.

Module 2: Set target yield

LKP determines fertilizer requirements based on set target yield. Yield is a function of field location, sowing date, variety, typical yield of the farmer, water source and status.

How will your rice be established in the upcoming selected season?

- Manual transplanting
- Mechanical transplanting
- Wet seeding

When is rice sown in the seed bed?

Choose a date
10/12/2023
MM/DD/YYYY

What variety will you grow for the upcoming season?

Inbred
 Hybrid

Variety
Inpari 37

What is the approximate seedling age at transplanting?

- About 16 days
- About 21 days
- About 26 days

Reported current yield on 1 hectare: 6.0 t/ha (fresh weight)
Target yield on 1 hectare: 7374 kg, 6.4 t/ha (14% MC)

Next

Module 3: Determine fertilizer r...

LKP determines fertilizer requirements based on crop needs and is adjusted with inputs from other sources of nutrients such as irrigation, crop residues and other organic inputs.

What major crop was grown before the upcoming selected season?

- Rice
- Corn
- Legume
- Vegetable or melon

How is rice threshed before the upcoming selected season?

- Manual harvest and manual threshing
- Manual harvest and threshing using machine
- Combining harvester

8. Jawab pertanyaan sesuai kondisi petani

lkp.irri.org/admin/farmer/36

LKP-V 2.0

Is the rice stubbles, cut or removed for other uses?

No

Yes, cut and removed

In this selected season, will you apply commercial organic fertilizers?

No

Yes

In this selected season, will you apply animal manure or locally produced organic material?

No

Yes

NPK requirements for the target yield
N: 129 kg/ha
P₂O₅: 32.92 kg/ha
K₂O: 91 kg/ha

Next



lkp.irri.org/admin/farmer/36

LKP-V 2.0

4 Module 4: Determine timing, spl...

Proper timing and splitting of fertilizer during the critical growth stage ensures a good number of tillers and panicles. It also improves fertilizer use efficiency.

Select the P and K containing fertilizer you will use in the selected season

Phonska (15-15-15-10)

Phonska Plus (15-15-15 with Zinc and S)

Phonska (15-10-12)

Pelangi (15-15-15-0)

Kujang (15-15-15-0)

NPK Ababil (15-15-15)

YaraMila Unik Biru (16-16-16)

Other

Select the type of urea you will use in the selected season



lkp.irri.org/admin/farmer/36

LKP-V 2.0

Select the type of urea you will use in the selected season

Urea

Nitrea (Kujang)

Urea Petro

Urea Granule

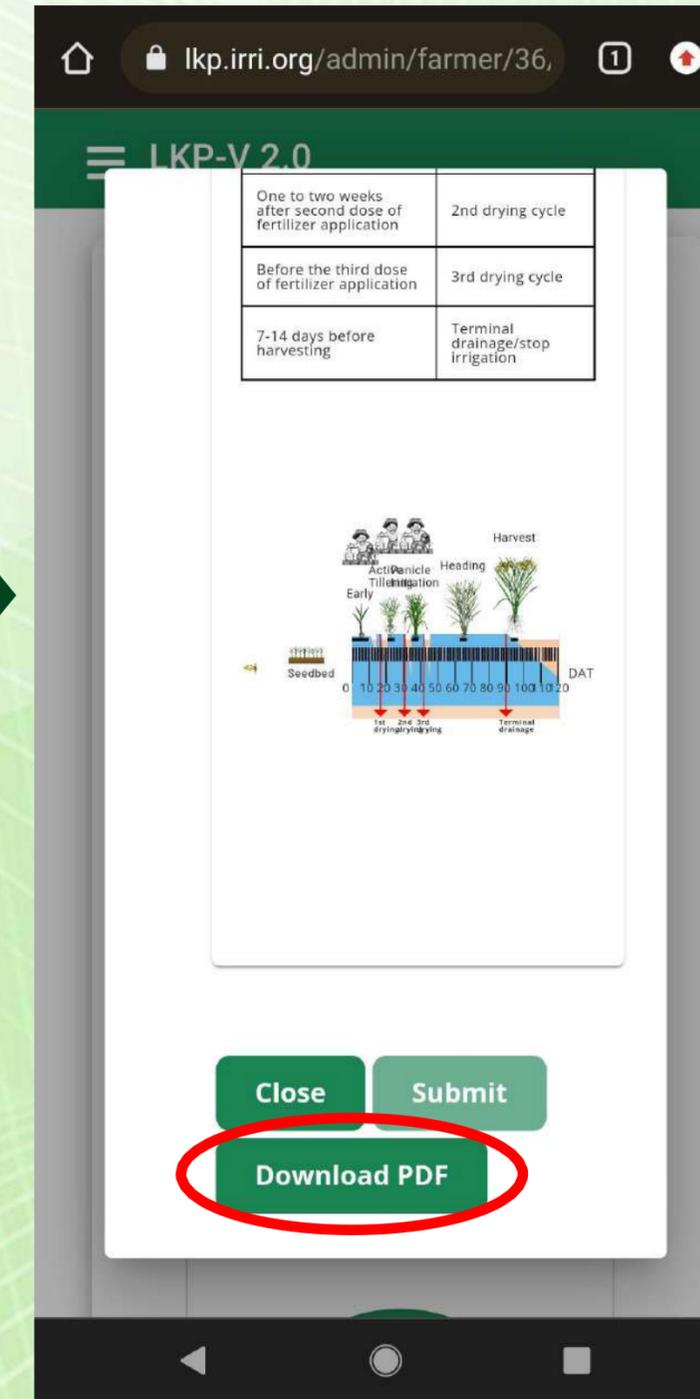
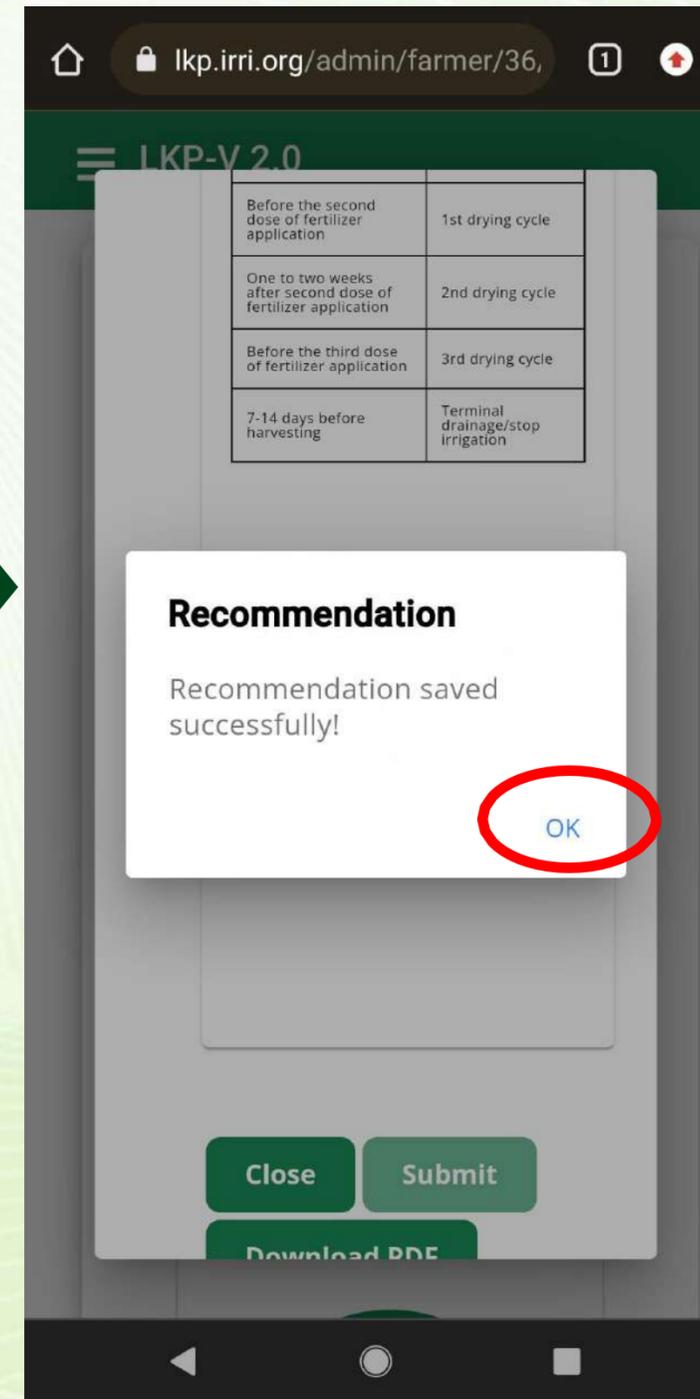
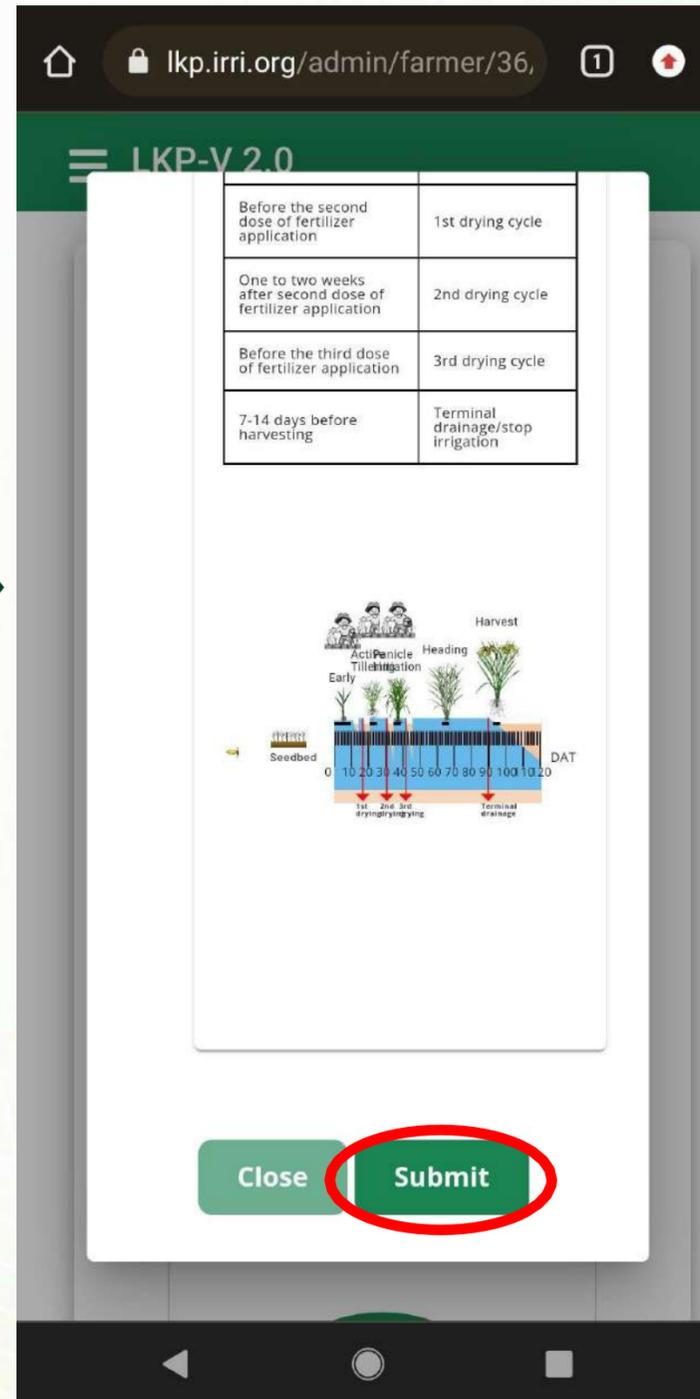
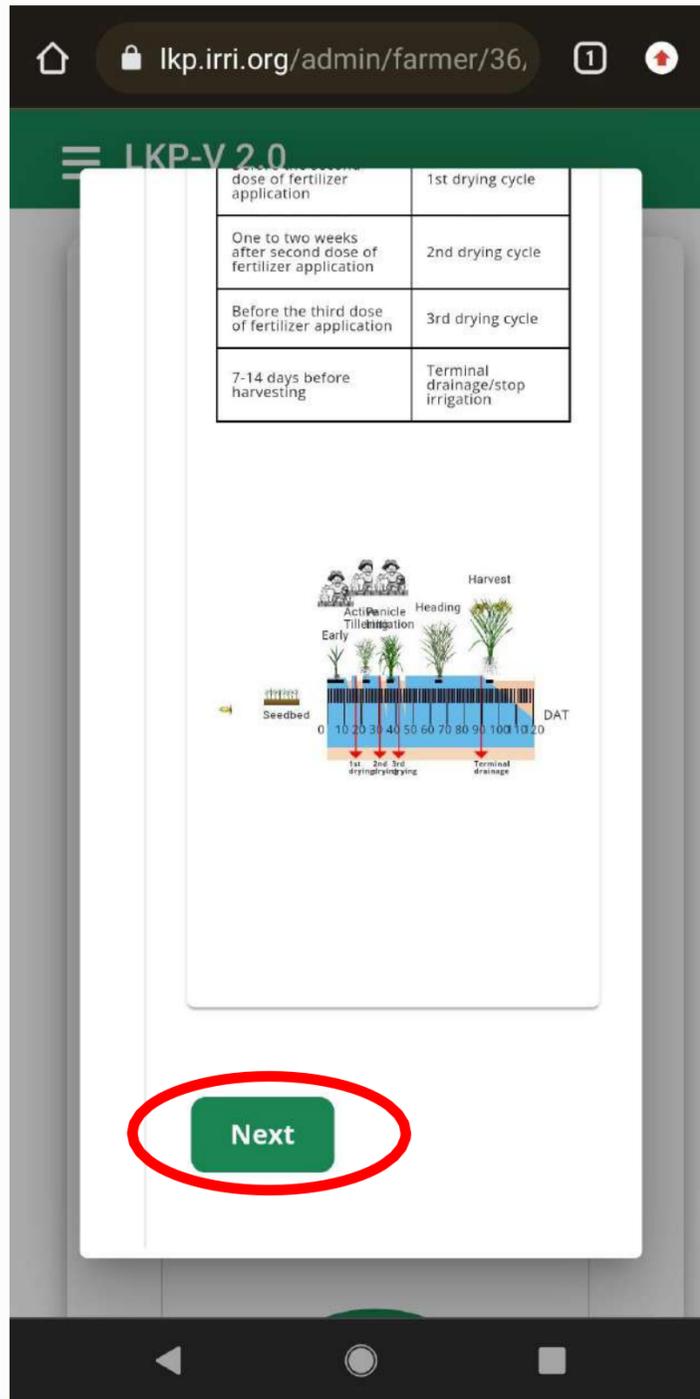
Timing and splitting of fertilizer application for your rice crop

Growth Stages	Days after transplanting (20 days seedlings)	Fertilizer amount for 1 ha		
		Phonska (15-10-12)	Urea	MO
Early	0 - 10	6 bags and 29 kg		
Active tillering	21 - 25		1 bag and 21 kg	
Panicle initiation	35 - 39		2 bags and 2 kg	1 bag and 36 kg

Follow water management as indicated below:

Timing	Practice
First 10 days after transplanting	Shallow flooding of 2-3 cm
Before the second dose of fertilizer application	1st drying cycle
One to two weeks after second dose of	2nd drying cycle

8. Jawab pertanyaan sesuai kondisi petani



Hasil Rekomendasi (PDF)

Layanan Konsultasi Padi Indonesia Versi 2.0

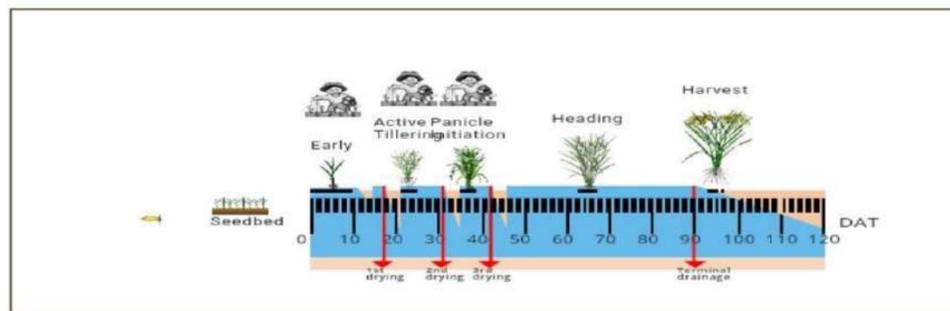
Reference Number: 43
 Name of the Farmer: Ahmad Farhan
 Farmer Lot Name: Blok 1
 Farmer Lot Location: Indramayu, Karangampel, Mundu

Date generated: 12th October 2023
 Rice Ecosystem: irrigated
 Crop Establishment: Manual transplanting
 Variety: Inpari 37
 Sowing Date: Thu Oct 12 2023

Note: Use this recommendation for **Wet Season** 2023-2024 only

Reported current yield on 1 hectare: 1.0 t/ha (fresh weight)
 Target yield on 1 hectare: 7374 kg, 6.4 t/ha (14% MC)

Manage rice as shown as below:



Apply Fertilizer as indicated below

Growth Stages	Days after transplanting (20 days seedlings)	Fertilizer amount for 1 ha		
		Phonska (15-10-12)	Urea	MOP
Early	0 - 10	6 bags and 29 kg		
Active tillering	21 - 25		1 bag and 21 kg	
Panicle initiation	35 - 39		2 bags and 2 kg	1 bag and 36 kg

* DAT - days after transplanting
 **1 Bag = 50 Kg

Follow water management as indicated below:

Timing	Practice
First 10 days after transplanting	Shallow flooding of 2-3 cm
Before the second dose of fertilizer application	1st drying cycle
One to two weeks after second dose of fertilizer application	2nd drying cycle
Before the third dose of fertilizer application	3rd drying cycle
Two weeks before harvesting	Terminal drainage/stop irrigation

*unless advised to dry, keep the field flooded



© International Rice Research Institute 2023

Identitas Petani & Data Pertanaman

Target Hasil Panen

Ilustrasi Pengaturan Irigasi

Rekomendasi Dosis Pemupukan Terstandar

Rekomendasi Pengaturan Irigasi Terstandar

Catatan Aplikasi LKP

- Hasil bandingkan dg musim yang sama (MH vs MH; MK1 vs MK1)
- Hasil produksi rata-rata yang biasa dicapai (bukan kasuistik)
- Masukan luasan sesuai yg akan direkomendasi (tidak musti harus satuan hektar)
- Satu orang petani bisa 2 atau 3 rekomendasi jika perlakuan berbeda (Misal: Pa Ujang1, Pa Ujang2, Pa Ujang3)
- Bisa diulang untuk meyakinkan hasil rekomendasi





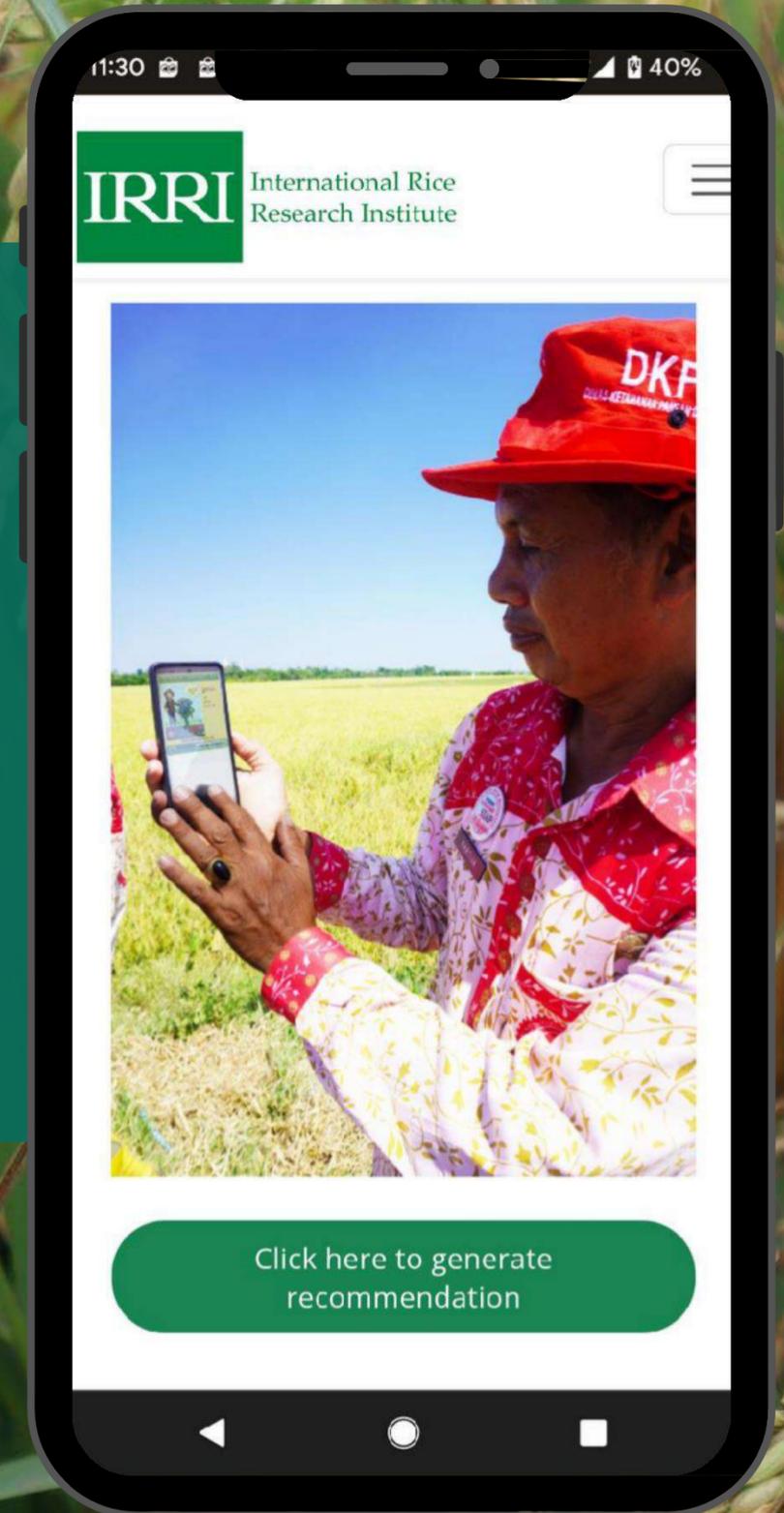
TERIMA KASIH

Tim LKP BSIP Jawa Barat

 jabar.bsip.pertanian.go.id

  BSIP Jawa Barat

  @bsipjabar





**BALAI BESAR PENERAPAN
STANDAR INSTRUMEN PERTANIAN**
BADAN STANDARDISASI INSTRUMEN PERTANIAN
KEMENTERIAN PERTANIAN



AGROSTANDAR



BSIP PENERAPAN

STANDARD . SERVICES . GLOBALIZATION

www.bbpsip.bsip.pertanian.go.id