

SUCCESS STORY

(2018-19 to 20-21)

**STRENGTHENING OF INFRASTRUCTURE FOR TRAINING
AND DEMONSTRATION OF HI-TECH AGRICULTURAL
MACHINES**

(Project ID:OR/RKVY-EXTN/2017/796)



**DEPARTMENT OF FARM MACHINERY AND POWER
COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY
OUAT, BHUBANESWAR**

1. **Title of the Project** : **Strengthening of Infrastructure For Training And Demonstration of Hi-Tech Agricultural Machines**
2. **Category** : **Agricultural Engineering**
3. **Background of the Project (Issues, challenges, gaps)** : **Issues:**
 The sale of tractors, power tillers, transplanters, combine harvesters etc has increased in many folds throughout the state following which the production and productivity of all major crops are showing a positive trend. Though many hi-tech agricultural machineries are available in our country, our farmers are ignorant about their availability and use. Also, large no. of tractors (about 50,000), power tillers (95,000) and rice transplanters (2500) are available in our state and trained operators for these machineries are not available. Many tractors and power tillers are operated by inexperienced persons as a result many accidents and casualties are frequently occurring in our state. Also recently advanced 4-wheeled drive transplanters are emerging in our state but no operators are available. Lack of proper knowledge and techniques for raising mat type nursery for the rice transplanters are the main constraints for low population of rice transplanters in the state. Line transplanting results about 15% higher yield of paddy and for this it is highly essential to organize training programmes on use, repair and maintenance of rice transplanter as well as nursery raising methods. Hence, it is high time to create trained operators for tractor, power tiller and rice transplanter in our state.

Challenges:

1. To create trained manpower for operation and maintenance of agricultural machines particularly tractor, power tiller and rice transplanter.
2. To create awareness about hi-tech agricultural machines through farmers' field demonstration-cum-training programmes.

Gaps:

1. Only 298 number of skilled manpower have been created through 2-weeks training programmes

though requirement in the state is very high.

2. Awareness created on use and benefits of hi-tech agri machines through demonstration programmes but more number of demonstration programmes are required to be conducted.

- 4 Pre-implementation issues** : Trained man power for operation and maintenance of tractor, power tiller and transplanners were not available in the state.
- As a result many casualties occurred every year due to in-experienced tractor drivers.
 - Popularisation of rice transplanners are not as per the target due to non-availability of transplanter operators and lack of knowledge of mat type nursery raising process.
 - Due to unavailability of power tiller mechanics in rural areas, tillage operation were stopped at the time of power tiller breaks down in peak season.
- 5 RKVY initiative** : Two weeks farmers training programmes conducted on:
- Operation and maintenance of Tractor
 - Operation and maintenance of Power Tiller
 - Operation and maintenance of Rice Transplanter
 - Demonstration of Hi-Tech agri machines like 4WD 6-roe rice transplanter, half feed thresher, half feed combine harvester, mini combine harvester, happy seeder, straw chopper, groundnut thresher, pulse thresher, post hole digger etc were organized in farmers field.
- 6 Technology/Tools developed** : Not applicable

9. Outcome/impact of the project:

Training

To create skilled manpower in the state for operation and maintenance of Tractor, power tiller and rice transplanter, young unemployed youth/farmers were invited to attend the two weeks farmers training programme through open advertisement in local dailies. Many applications were received and they were invited to attend the training batch wise. The details are given below.

1. Operation and Maintenance of Tractor

Sl.No.	Duration	No. of Trainees
1.	18.06.2018 - 30.06.2018	19
2.	10.12.2018 – 22.12.2018	17



Two weeks farmers' training programme on "Operation and Maintenance of Tractor" was organized during 18th – 30th June, 2018 and 10th to 22nd December, 2018 in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. Thirty six numbers of rural youths from different districts of the state participated in the above two training programmes. Prof. S.

Pasupalak, Hon'ble Vice Chancellor, OUAT inaugurated the 1st training programme and interacted with the trainees. The training programme on operation and maintenance of tractor aimed to enhance the theoretical and practical knowledge of participants on different components and systems of tractor, tractor driving, its maintenance schedule etc. They were taught about different parts of tractor engine, ignition system, fuel supply system, lubrication system, cooling system, power transmission, hydraulic system of tractor along with trouble shooting and repair maintenance schedule of tractor. They were trained on tractor driving (on road and field condition) with different implements like rotavator, cultivator, seed drill, axial flow thresher and trolley. During two weeks training programmes, trainees also visited farmers' fields and discussed about the repair and maintenance of tractor with the local progressive farmers having tractors. During the training programmes, free lodging and boarding facilities were provided by the project in Farmers Hostel, OUAT, Bhubaneswar. After completion of the training programme, certificate and odia training manual were provided to the trainees.



2. Operation and Maintenance of Rice Transplanter

Sl.No.	Duration	No. of Trainees
1.	30.07.2018 - 11.08.2018	20
2.	21.01.2019 – 02.02.2019	20

Two weeks farmers' training programme on “Operation and Maintenance of Rice Transplanter” was organised from 30th July to 11th August, 2018 and 21st January to 2nd February, 2019 in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. Forty numbers of rural youths from different districts of the state joined these training programmes. The training programme envisaged to enhance the theoretical and practical knowledge of the participating farmers on different types of transplanters, their mechanisms and maintenance schedule etc. The participants were trained on preparation of mat type nursery in field and by automatic nursery raising machine, dismantling and assembling of transplanter engine, gear box and finger assembly. Field visits were arranged for exposure of the trainees and interaction with the users of rice transplanters. Field visit to the farmers field at Gop and Balanga were arranged for the two training programmes respectively. Trainees interacted with the transplanter users, visited their fields, cut nursery cakes and transplanted in fields with different models of transplanters. The training programmes on rice transplanter were highly appreciated by the participants as the training would be beneficial for rice growers to reduce the cost, time and drudgery involved in conventional manual transplanting method. At the end of the training programmes, certificate and training manual in odia language were provided to the trainees





3. Operation and Maintenance of Power Tiller

Sl.No.	Duration	No. of Trainees
1.	24.09.2018 - 06.10.2018	20
2.	11.02.2019 – 23.02.2019	20



Two weeks farmers' training programme on “Operation and Maintenance of Power Tiller” was organised from 24th September to 6th October, 2018 and 11th February to 23rd February, 2019 in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. Forty numbers of rural youths from different districts of the state joined this training programme. The training programme envisaged to enhance the

theoretical and practical knowledge of the participating farmers on different types of power tillers, their operation and maintenance schedule etc. The participants were trained on different parts and system of power tiller, dismantling and assembling of engine and gear box of power tiller, dry and wet tillage operation of power tiller, fitting of cage wheels, operation of power tiller with trolley and thresher. During the training programme, one day farmers’ field exposure programme was arranged to visit the village Injana, Barang block (both the training) where a good numbers of power tillers were available. The trainees interacted with the users, checked their power tillers, met farmers queries and operated the power tillers in their fields to check the conditions of the power tillers. After completion of the training programmes, certificates and training manual in odia were provided to the trainees. Free lodging and boarding to all the trainees were provided by the project in Farmers Hostel, OUAT, Bhubaneswar.

Besides this, their to and fro travel expenses were reimbursed on production of bus/train tickets. During 2018-19, total 116 farmers were trained in operation and maintenance of Tractor, Power tiller and Rice transplanter.



Demonstration

1. Demonstration of OUAT Ragi Thresher cum Pearler



Demonstration of OUAT Ragi Thresher cum Pearler was organized at village P. Govindpur, Mohana block, Gajapati district on 23rd May, 2018. Sixty nine numbers of farmers witnessed the demonstration programme. The performance of the machine was highly appreciated by the farmers. Farmers showed their keen interest to purchase the

machine. Address and contact number of the manufacturer was provided to the interested farmers for purchase of the machine.

2. Demonstration of Tractor operated Straw Chopper

Demonstration of tractor operated straw chopper was organized at Beroboi, Dealanga, Puri on 4th June, 2018. It is a new technology machine used to chop the straw residue left in combine harvested fields and not available in the state. Fifty two farmers attended the demonstration programme. The performance of straw chopper was highly appreciated by the farmers as it facilitates straw incorporation in paddy fields.



3. Demonstration of Tractor operated Groundnut Thresher



Demonstration of tractor operated groundnut thresher was organized at village Andhuti, Dist.-Khurdha on 6th June, 2018. This machine can harvest both freshly harvested groundnut as well as dried crops. Forty-nine farmers witnessed the demonstration programme. Some farmers wanted to procure this machine. The address and contact numbers of manufacturers were provided to the interested farmers.



4. Demonstration of Power operated Pulse Thresher

Demonstration of power operated pulse thresher was organized at village Kansapala, Dist.-Mayurbhanj on 8th June, 2018. Fifty four numbers of farmers attended the demonstration programme. As this is a low cost machine, some farmers were very much interested to purchase this machine after witnessing the performance of the machine.

5. Demonstration of Tractor operated Seed-cum-Fertilizer Drill



Demonstration of tractor operated seed-cum-fertilizer drill was organized at village Gudadani of Phulbani district on 5th July, 2018. Fifty one numbers of farmers attended the demonstration programme. As it is a multi crop planter, farmers wanted to know the type of seeds that can be used in this machine, its availability, cost and subsidy available for this machine. Their queries were met and the address of the suppliers of the machine was

provided to the farmers.

6. Demonstration of self propelled 4-row rice transplanter



Demonstration of a self propelled 4-row walk behind type rice transplanter was organized at village Birudihi of Mayurbhanj district on 28th August, 2018. Fifty one farmers attended the demonstration programme. They were explained about the methods of mat type nursery preparation and its benefit and cost economics.

7. Demonstration of Power weeder for low land line transplanted Paddy



Demonstration of Power weeder for low land line transplanted Paddy was organized at village Badjod, Mayurbhanj district on 1st October, 2018. One hundred twenty three numbers of farmers attended the demonstration programme. The scientists of KVK, Mayurbhanj-I and officials of the line department of Govt. of Odisha witnessed the demonstration programme. They were explained about the

use and maintenance of different makes and models of power weeders available in the state, their cost, availability and Govt. incentives available to purchase the machine. Some farmers operated the power weeders and expressed their satisfaction about the performance of the machine.

8. Demonstration of self propelled power reaper

Demonstration of self propelled power reaper was organized at village Muktapur, Tangi block of Cuttack district on 5th November, 2018. Sixty numbers of farmers attended the demonstration programme. The farmers themselves operated the machine and expressed their happiness and wanted to know the availability of the reaper. The cost economics of the machine was explained to the farmers.



9. Demonstration of Mini Combine Harvester



Demonstration of a Mini Combine Harvester was organized at village Bilahata, Sadar block, Cuttack on 7th December, 2018. Twenty four farmers attended the demonstration programme. As it is a light weight and low cost machine, farmers were interested to know its economics and constraints. Their queries were met satisfactorily

10. Demonstration of Tractor operated Happy seeder

Demonstration of tractor operated happy seeder for line sowing of green gram was organized at village Jasuapur, Khurda district on 14th December, 2018. Twenty five numbers of farmers witnessed the demonstration programme.



11. Demonstration of Tractor operated Zero Till Drill



Demonstration of tractor operated zero till drill for line sowing of green gram was organized at village Sarpokhari, Nayagarh district on 10th January, 2019. Two hundred forty seven numbers of farmers witnessed the demonstration. It is a new machine for their area and as no tillage operation is required for line sowing of green gram/black gram, farmers appreciated this machine and requested to organize such

demonstration programmes in different location of the district. The cost economics of the machine and its availability, incentives to purchase the machine and field conditions required for its use were explained to the farmers.

12. Demonstration of tractor operated whole straw thresher

Demonstration of a tractor operated whole straw thresher was organized at village Beroboi, Puri district on 19th February, 2019. This is a new technology machine and farmers can get the whole straw after threshing operation and hence the farmers income will be increased. Thirty six numbers of farmers witnessed the demonstration programme. They highly appreciated the machine as the commercially available axial flow thresher discharge the chopped straw which is of no use to them but this machine discharge the whole straw which can be used for mushroom cultivation in their area. The farmers expressed that by using this machine, they can get additional income of Rs



3500/- 4000/- per acre by selling straw bundles. They wanted to know its availability, cost, spare parts and after sales service of the machine. Their queries were met in details and the dealers address with contact numbers were provided.

Abstract of Demonstrations, 2018-19

Sl No	Date	Machine demonstrated	Location of demonstration	No. of participants
1	23.05.2018	OUAT Ragi thresher cum pearler	P.Govindpur, Mohana, Gajapati	69
2	04.06.2018	Tractor operated straw chopper	Beroboi, Dlang, Puri	52
3	06.06.2018	Tractor operated groundnut thresher	Andhuti, Khurda	49
4	08.06.2018	Power operated pulse thresher	Kansapal, Mayurbhanj	54
5	05.07.2018	Tractor operated seed cum fertilizer drill	Gudadani, Phulbani	51
6	28.08.2018	Self propelled 4-row walk behind type rice transplanter	Birudihi, Mayurbhan	51
7	01.10.2018	Power weeder for lowland line transplanted paddy	Badjod, mayurbhanj	123
8	05.11.2018	Self propelled power reaper	Muktapur, Tangi, Cuttack	60
9	07.12.2018	Mini combine harvester	Bilahata, Salipur, Cuttack	24
10	14.12.2018	Tractor operated happy seeder	Jasuapur, Khurda	25
11	10.01.2019	Tractor operated zero till drill	Sarpokhari, Nayagarh	247
12	19.02.2019	Whole straw paddy thresher	Beroboi, Dlang, Puri	36
Total				841

2019-20**Training****4. Operation and Maintenance of Tractor**

Sl.No.	Duration	No. of Trainees
1.	17.06.2019- 29.06.2019	20
2.	14.10.2019 – 26.10.2019	20



The 1st two weeks farmers' training programme on "Operation and Maintenance of Tractor" was organized during 17th – 29th June, 2019 and 20 farmers from different districts of the state participated in the programme. The 2nd training was organized during 14th to 26th October, 2019 in which also 20 trainees attended the programme. The training programmes were conducted in the College of Agricultural Engineering and Technology, OUAT,

Bhubaneswar. Dr. Pawan Kumar Agarwal, Hon'ble Vice Chancellor, OUAT inaugurated the 1st training programme and interacted with the trainees. A "Success Story" of RKVY Project on Strengthening of Infrastructure for Training and Demonstration of Hi-Tech Agri Machines was released by the Hon'ble Vice-Chancellor. The training programme on operation and maintenance of tractor aimed to enhance the theoretical and practical knowledge of participants on different components and systems of tractor, tractor driving, its maintenance schedule etc. They were taught about different parts of tractor engine, ignition system, fuel supply system, lubrication system, cooling system, power transmission, hydraulic system of tractor along with trouble shooting and repair maintenance schedule of tractor. They were trained on tractor driving (on road and field condition) with different implements like rotavator, cultivator, seed drill, axial flow thresher and trolley. During two weeks training programmes, trainees also visited Tractor Training Centre of New Holland Company located at OFMRDC campus, Satyanagar, Bhubaneswar where they were given hands on training to open engine and gear system of tractor. After completion of the training programme, certificate and odia training manual were provided to the trainees.



5. Operation and Maintenance of Rice Transplanter

Sl.No.	Duration	No. of Trainees
1.	15.07.2019 - 27.07.2019	20
2.	24.02.2020 – 07.03.2020	20



The 1st two weeks farmers' training programme on "Operation and Maintenance of Rice Transplanter" was organised from 15th July to 27th July, 2019 in which twenty farmers from different districts of the state attended the programme. The 2nd two weeks farmers' training programme was organized during 24th February to 7th March, 2020 in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar in which twenty farmers also attended the programme. The training programme aimed to enhance the theoretical and practical knowledge of the participating farmers on different types of transplanters, their mechanisms and maintenance schedule etc. They were taught about different parts of transplanter, preparation of mat type nursery in field and by automatic nursery raising machine, dismantling and assembling of transplanter engine, gear box and finger assembly, trouble shooting and maintenance schedule of transplanter. During this two weeks of training programme, field visits to farmers' field at Patia and Resinga were arranged for exposure of the trainees and interaction with the users of rice transplanters. The training programmes on rice transplanter were highly appreciated by the participants as the training would be beneficial for rice growers to reduce the cost, time and

drudgery involved in conventional manual transplanting method. At the end of the training programmes, certificate and training manual in odia language were provided to the trainees.



3. Operation and Maintenance of Power Tiller

Sl.No.	Duration	No. of Trainees
1.	19.08.2019 - 31.08.2019	20
2.	19.09.2019 – 30.09.2019	18

The 1st two weeks farmers' training programme on "Operation and Maintenance of Power Tiller" was organised from 19th to 31st August, 2019 and the 2nd farmers' training programme was conducted during 19th to 30th September in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. Forty numbers of rural youths from different districts of the state joined this training programme. The main objective behind the idea of organizing the training programme



was to enhance the theoretical and practical knowledge of the farmers on different types of power tillers, their operation and maintenance schedule etc. The participants were taught different parts and system of power tiller, dismantling and assembling of engine and gear box of power tiller, dry and wet tillage operation of power tiller, fitting of cage wheels, operation of power tiller with trolley and thresher. During the first training programme, one day farmers' field exposure programme was arranged to visit the village Patia, where the trainees interacted with the power tiller users, checked their power tillers and operated the power tillers in their fields. During the second training programme, trainees also visited Training Centre of VST Tillers and Tractors located at OFMRDC campus, Satyanagar, Bhubaneswar where they were given hands on training on different cut section model of power tiller. After completion of the training programmes, certificates and training manual in odia were provided to the trainees.

Free lodging and boarding to all the trainees were provided by the project in Farmers Hostel, OUAT, Bhubaneswar. Besides this, their to and fro travel expenses were reimbursed on production of bus/train tickets. During 2019-20, total 118 farmers were trained in operation and maintenance of Tractor, Rice transplanter and Power tiller.



Demonstration

13. Demonstration of Tractor drawn Disc Plough



Demonstration of tractor drawn disc plough was organized at village Sarapokhari, Dist. Nayagarh on 27th June, 2019. One hundred sixty numbers of farmers witnessed the demonstration programme. The performance of the implement was highly appreciated by the farmers.

Farmers showed their keen interest to purchase the implement. Address and contact number of the manufacturer was provided to the interested farmers for purchase of the implement.

2. Demonstration of Tractor operated Zero Till Drill

Demonstration of tractor operated zero till drill for line sowing of green gram was organized at Jasipur, Mayurbhanj district on 8th July, 2019. Forty six numbers of farmers witnessed the demonstration. As this is a new implement for their area and as no tillage operation is required for line sowing of green gram/black gram, farmers appreciated this machine and requested to organize



such demonstration programmes in different location of the district. The cost economics of the machine and its availability, incentives to purchase the machine and field conditions required for its use were explained to the farmers.

3. Demonstration of Self-propelled 6-row and 8-row Riding type Transplanter



Demonstration of Self-propelled 6-row and 8-row Riding type Transplanters were organized at Samakhunta, Dist.-Mayurbhanj on 6th August, 2019. Seventy seven numbers of farmers witnessed the demonstration programme. The scientists of KVK, Mayurbhanj-I and officials of the line department of Govt. of Odisha witnessed the demonstration programme. They were explained about the methods of mat type nursery preparation and its benefit and cost economics. Some farmers wanted to procure this machine. The address and contact numbers of manufacturers were provided to the interested farmers. Besides these, 48 numbers of progressive farmers from Assam came to CAET, Bhubaneswar for an exposure visit to see the latest technology agricultural machines. This programme was sponsored by Assam Agricultural University and Agriculture Department of Assam and was coordinated by CISA Project. Demonstration of 6-row 4WD rice transplanter was organized at Agronomy Main Research Farm, OUAT, Bhubaneswar on 18.02.2020.

6. Demonstration of Self-propelled 4-row walk behind Transplanter

Demonstration of self propelled 4-row walk behind transplanter was organized at Badasahi, Dist.-Mayurbhanj on 6th August, 2019. Thirty numbers of farmers attended the demonstration programme. They were explained about the methods of mat type nursery preparation and its benefit and cost economics.



5. Demonstration of Self-propelled 4-row walk behind Transplanter



Demonstration of a self-propelled 4-row walk behind type rice transplanter was organized at Chikarada, Berhampur on 14th August, 2019. Sixty eight numbers of farmers attended the demonstration programme. Farmers wanted to know about the use and maintenance of this machine, its availability, cost and subsidy available for this machine. Their queries were met and the address of the suppliers of the machine was provided to the farmers.

6. Demonstration of Tractor Operated Post hole Digger



Demonstration of tractor operated post hole digger for planting banana was organized at village Rahama, Dist. Jagatsinghpur on 14th October, 2019. Twenty farmers attended the demonstration programme. Address and contact number of the manufacturer was provided to the interested farmers for purchase of the implement.

7. Demonstration of Power operated Groundnut Thresher

Demonstration of power operated groundnut thresher was organized at village Sarapokhari, Dist. Nayagarh on 19th October, 2019. One hundred nineteen numbers of farmers attended the demonstration programme. As it is a low cost machine, farmers showed their keen interest to purchase the machine. Address and contact number of the manufacturer was provided to the interested farmers for purchase of the implement.



8. Demonstration of tractor operated whole straw thresher



Demonstration of a tractor operated whole straw thresher was organized at village Sanabhimdaspur, Sakhigopal, Puridistrict on 5th December, 2019. Forty one numbers of farmers witnessed the demonstration programme. This is a new technology machine and farmers can get the whole straw after threshing operation and

hence the farmers' income will be increased. They highly appreciated the machine as the commercially available axial flow thresher discharge the chopped straw which is of no use to them but this machine discharge the whole straw which can be used for mushroom cultivation in their area. The farmers expressed that by using this machine, they can get additional income of Rs 3500/- to 4000/- per acre by selling straw bundles. They wanted to know its availability, cost, spare parts and after sales service of the machine. Their queries were met in details and the dealers address with contact number was provided.

9. Demonstration of Tractor operated Happy seeder and Baler

Demonstration of tractor operated happy seeder for line sowing of green gram and tractor operated baler was organized at village Resinga, Puri district on 1st February, 2020. Seventy five numbers of farmers witnessed the demonstration programme. As these were new technology machines in Odisha, the farmers appreciated the performance of machines and wanted to know their availability, cost and subsidy available for these machines. Their queries were satisfactorily met and address with contact numbers of suppliers was provided.



10. Demonstration of Tractor operated Zero Till Drill

Demonstration of tractor operated zero till drill for line sowing of green gram was organized at Kundalmani, Mayurbhanj district on 4th February, 2019. One hundred twenty three numbers of farmers witnessed the demonstration programme. As no tillage operation is required for line sowing of green gram/ black gram, farmers were interested to purchase the machine. The cost economics of the machine and its viability, incentives to purchase the machine and field conditions required for its use were explained to the farmers.



Abstracts of Demonstrations, 2019-20

Sl No	Date	Machine demonstrated	Location of demonstration	No. of participants
1	27-06-2019	Tractor drawn Disc Plough	Sarapokhari, Nayagarh	160
2	08-07-2019	Tractor operated Zero Till drill	Jasipur, Mayurbhanj	46
3	06-08-2019	Self-propelled 6-row and 8-row Riding type Transplanter	Samakhunta, Mayurbhanj	77
4	06-08-2019	Self-propelled 4 row Walk behind Transplanter	Badasahi, Mayurbhanj	30
5	14-08-2019	Self-propelled 4 row Walk behind Transplanter	Chikarada, Berhampur	68
6	14-10-2019	Tractor operated Post hole Digger	Rahama, Jagatsinghpur	20
7	19-10-2019	Power operated Groundnut thresher	Sarapokhari, Nayagarh	119
8	05.12.2019	Tractor operated whole straw	Sanabhimdaspur,	41

		thresher	Sakhigopal	
9	01.02.2020	Happy seeder and Baler	Resinga, Nimapada	75
10	04.02.2020	Tractor operated zero till drill	Kundalmani, Mayurbhanj	123
Total				759

2020-21

Training

Applications were invited from young unemployed youth/farmers for the two weeks farmers training programme through open advertisement in local dailies. Many applications were received and they were invited to attend the training programme batch wise. Their free lodging and boarding were provided by the project in University Farmers Hostel. Due to corona pandemic and restrictions of COVID-19 guidelines, only three training programmes were organized against a target of 6 training programmes. The details of training programmes organized during 2020-21 are appended below.

1. Operation and Maintenance of Power Tiller

Sl.No.	Duration	No. of Trainees
1.	08.02.2021 - 20.02.2021	20



The two weeks farmers' training programme on "Operation and Maintenance of Power Tiller" was organized from 08th to 20th February, 2021 in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. Twenty numbers of rural youths from different districts of the state joined this training programme. The main objective behind the idea of organizing the training programme was to enhance the theoretical and practical knowledge of the farmers on different types of power tillers, their operation and maintenance schedule etc. The participants were taught different parts and system of power tiller, dismantling and assembling of

The two weeks farmers' training programme on "Operation and Maintenance of Power Tiller" was organized from 08th to 20th February, 2021 in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. Twenty numbers of rural youths from different districts of the state joined this training programme. The main objective behind the idea of

engine and gear box of power tiller, dry and wet tillage operation of power tiller, fitting of cage wheels, operation of power tiller with trolley, thresher etc. During the training programme, one day farmers' field exposure programme was arranged to visit farmer's field at village Lakshmisagar, Dist. Khurdha where the trainees interacted with the power tiller users, checked their power tillers and operated the power tillers in their fields. The trainees also visited power tiller Training centre of VST Tillers and Tractors located at OFMRDC campus, Satyanagar, Bhubaneswar where they were given hands on training on different cut section model of power tiller. After completion of the training programmes, certificates and training manual in odia were provided to the trainees.



2. Operation and Maintenance of Rice Transplanter

Sl.No.	Duration	No. of Trainees
1.	22.02.2021 - 06.03.2021	20

The two weeks farmers' training programme on "Operation and Maintenance of Rice Transplanter" was organised from 22nd February to 06th March, 2021 in which twenty farmers from different districts of the state attended the programme which was conducted in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. The training programme aimed to enhance the theoretical and practical knowledge of the participating farmers on different types of transplanters, their mechanisms and maintenance schedule etc. They were taught about different parts of transplanter, preparation of mat type nursery in field and by automatic nursery raising machine, dismantling and assembling of transplanter engine, gear box

and finger assembly, trouble shooting and maintenance schedule of transplanter. During this two weeks of training programme, field visits to farmers' field at Resinga was arranged for exposure of the trainees and interaction with the users of rice transplanters. The training programmes on rice transplanter was highly appreciated by the participants as the training would be beneficial for rice growers to reduce the cost, time and drudgery involved in conventional manual transplanting method. At the end of the training programmes, certificate and training manual in odia language were provided to the trainees.



3. Operation and Maintenance of Tractor

Sl.No.	Duration	No. of Trainees
1.	08.03.2021- 20.03.2021	20



The two weeks farmers' training programme on "Operation and Maintenance of Tractor" was organized during 08th to 20th March, 2021 in which 20 farmers from different districts of the state participated. The training programmes were

conducted in the College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. The training programme on operation and maintenance of tractor aimed to enhance the theoretical and practical knowledge of participants on different components and systems of tractor, tractor driving, its maintenance schedule etc. They were taught about different parts of tractor engine, ignition system, fuel supply system, lubrication system, cooling system, power transmission, hydraulic system of tractor along with trouble shooting and repair maintenance schedule of tractor. They were trained on tractor driving (on road and field condition) with different implements like rotavator, cultivator, seed drill, axial flow thresher and trolley. During two weeks training programmes, trainees also visited Tractor Training Centre of New Holland Company located at OFMRDC campus, Satyanagar, Bhubaneswar where they were given hands on training to open engine and gear system of tractor. After completion of the training programme, certificate and odia training manual were provided to the trainees.



Free lodging and boarding to all the trainees were provided by the project in Farmers Hostel, OUAT, Bhubaneswar. Besides this, their to and fro travel expenses were reimbursed on production of bus/train tickets. During 2021, total 60 farmers were trained in operation and maintenance of Tractor, Rice transplanter and Power tiller.

Demonstration

14. Demonstration of 8-row Riding type Transplanter



Demonstration of Self-propelled 8-row Riding type rice transplanter was organized at village Inchala, Dist. Puri on 12th August, 2020 in association of KVK, Puri. Twenty two numbers of farmers witnessed the demonstration programme. They were explained about the methods of mat type nursery

preparation and its benefit and cost economics of rice transplanters. Some farmers wanted to procure this machine. The address and contact numbers of manufacturers were provided to the interested farmers.

15. Demonstration of tractor operated whole straw thresher

Demonstration of a tractor operated whole straw thresher was organized at village Mangarajpur, Jarka, Jajpur district on 18th November, 2020 in association with KVK, Jajpur. Twenty five numbers of farmers witnessed the demonstration programme. This is a new technology machine and farmers can get the whole straw after threshing operation and hence the farmers' income will be increased. They highly appreciated the machine as the commercially available axial flow thresher discharge the chopped straw which is of no use to them but this machine discharge the whole straw which can be used either for mushroom cultivation or for thatching their houses/cow sheds in their area. The farmers expressed that by using this machine, they can get additional income of Rs 3500/- to 4000/- per acre by selling straw bundles. They wanted to know its availability, cost, spare parts and after sales service of the machine. Their queries were met in details and the dealers address with contact number was provided.



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16. Demonstration of Half Feed Combine and mini combine harvester

Demonstration of half feed combine and mini combine harvester was organized at village Srimukha, Nimapada, Puri district on 25th November, 2020 in association with KVK, Puri. Forty four numbers of farmers witnessed the demonstration programme. As these were new technology machines in Odisha, the farmers appreciated the performance of machines and wanted to know their availability, cost and subsidy available for these machines. Their queries were satisfactorily met and address with contact numbers of suppliers was provided.



17. Demonstration of tractor operated potato planter



Demonstration of tractor operated potato planter was organized at village Chhenua, Nimapara, Puri district on 25th November, 2020. Twenty two farmers attended the demonstration programme. Address and contact number of the manufacturer was provided to the interested farmers for purchase of the machine.

18. Demonstration of tractor operated whole straw thresher

Demonstration of a tractor operated whole straw thresher was organized at village Bagalpur, Puri district on 22nd December, 2020 in association with KVK, Puri. Thirty two numbers of farmers witnessed the demonstration



programme. This is a new technology machine and farmers can get the whole straw after threshing operation and hence the farmers' income will be increased. They highly appreciated the machine. They wanted to know its availability, cost, spare parts and after sales service of the machine. Their queries were met in details and the dealers address with contact number was provided.

19. Demonstration of Power operated Pulse Thresher

Demonstration of power operated pulse thresher was organized at village Sarapokhari, Dist. Nayagarh on 11th March, 2021. Seventy five numbers of farmers attended the demonstration programme. As it is a low cost machine, farmers showed their keen interest to purchase the machine. Address and contact number of the manufacturer was provided to the interested farmers for purchase of the machine.



20. Demonstration of Power operated Pulse Thresher



Demonstration of power operated pulse thresher was organized at Ratanpur, Khandapara, Dist. Nayagarh on 17th March, 2021. Thirty numbers of farmers attended the demonstration programme. Farmers appreciated the performance of machine and showed their keen interest to purchase the machine. Address and contact number of the manufacturer was provided to the interested farmers for purchase of the machine.

21. Demonstration of Power operated Pulse Thresher

Demonstration of power operated pulse thresher was organized at Chikarada, Dist. Ganjam on 22nd March, 2021. Thirty numbers of farmers attended the demonstration programme. Farmers appreciated the performance of machine and showed their keen interest to purchase the machine. Address and contact number of the manufacturer was provided to the interested farmers for purchase of the machine.



Abstract of demonstration, 2020-21

Sl. No.	Date	Machine demonstrated	Location of demonstration	No. of participants
1	12-08-2020	Self- propelled 8-row riding type rice transplanter	Inchala, Puri	22
2	18-11-2020	Tractor operated whole straw thresher	Mangarajpur, Jarka, Jajpur	25
3	25-11-2020	Half feed combine and mini combine harvester	Srimukha, Nimapada, Puri	44
4	25-11-2020	Tractor operated potato planter	Chhenua, Puri	22
5	22-12-2020	Tractor operated whole straw thresher	Bagalpur, Puri	32
6	11-03-2021	Power operated pulse thresher	Sarapokhari, Nayagarh	75
7	17-03-2021	Power operated pulse thresher	Khandapara, Nayagarh	30
8	22-03-2021	Power operated pulse thresher	Chikarada, Ganjam	41
Total				291

Abstracts of Training programmes

Sl. No.	Type of Training	No of training		No. of Trainees
		Target	Achievement	
2018-19				
	Operation and maintenance of Tractor	2	2	36
	Operation and maintenance of Rice Transplanter	2	2	40
	Operation and maintenance of Power tiller	2	2	40
2019-20				
	Operation and maintenance of Tractor	2	2	40
	Operation and maintenance of Rice Transplanter	2	2	40
1	Operation and maintenance of Power tiller	2	2	38
2020-21				
3	Operation and maintenance of Power tiller	2	1	20
4	Operation and maintenance of Rice Transplanter	2	1	20
5	Operation and maintenance of Tractor	2	1	20
Total		18	15	298

Abstracts of Demonstration programmes

Sl. No.	Year	Target	Achievement	No. of persons attended
1	2018-19	10	12	841
2	2019-20	10	10	759
3	2020-21	10	8	291
Total		30	30	1891

8. Citation of 3-4 sentences from 4 to 5 beneficiaries that bring a change (Beneficiaries details to be mentioned)

2018-19

SUCCESS STORIES

1. **Sri Mirja Beshra**, a rural youth from Village-Rangamatia, Bhimkhanda, Dist.-Mayurbhanj joined the two weeks training programme on “Operation and Maintenance of Tractor” during 18th- 30th June,2018. After being trained, he is now working as a tractor driver in their area. He is now earning Rs.15,000/- per month

2. **Sri Sagar Mallick** who hails from a village named Mohana, Dist.- Gajapati joined the two weeks training programme on “Operation and Maintenance of Power Tiller” from 24th September to 6th October, 2018. After learning about the different components and systems of power tiller, dismantling and assembling of engine and gear box of power tiller, he has started his own workshop at Mohana (block) and involved in repairing of power tillers. He is earning aboutRs.10,000/- per month and marked his first step as an entrepreneur.



3. **Sri Brajamohan Hembram**, a rural youth from village Badasahi, Dist.- Mayurbhanj attended two weeks training programme on “Operation and Maintenance of tractor” from 10th- 22nd December, 2018. After completing the training programme, he purchased a new tractor and he himself operates it for different tillage and transportation of farm produce for his own farm and earning by giving his tractor on custom hiring in their nearby areas.



4. **Sri Purushotam Pradhan** who hails from a village named Majhipali of Bargarh district was trained in two weeks training programme on “Operation and Maintenance of Power Tiller” during 11-23 February, 2019. After successful completion of training, he is now engaged as a power tiller operator in his village and earning about Rs 6000/- per month. He is also involved in repairing of power tiller and earns about Rs.5000/- per month from repairing works thereby total monthly income of about Rs 11,000/-.



2019-20

1. **Sri Sisir Rout**, a rural youth from Village-Patia, Dist.- Khurdha joined the two weeks training programme on “Operation and Maintenance of Rice Transplanter” organized by this RKVY Project. After being trained, he has started his own entrepreneurship by purchasing transplanters and carrying out transplanting operation in farmers’ fields on contract basis. He is earning about Rs.15,000/- per month.



2. **Sri Ramesh Chandra Panigrahi**, who hails from a village named Fatehgarh, Dist.-Nayagarh joined the two weeks training programme on “Operation and Maintenance of Power Tiller” from 19th to 31st August, 2019. After learning about the different components and systems of power tiller, dismantling and assembling of engine and gear box of power tiller, he is now involved in repairing of power tillers in his village. He is no more dependent on mechanics whenever his power tiller goes out of order. He is earning about Rs.5,000/- per month.



2. **Sri Baikuntha Singh**, a rural youth from village Bangriposi, Dist.- Mayurbhanj was trained in two weeks training programme on “Operation and Maintenance of Power Tiller” at this RKVY project. He is now engaged in servicing and repairing works of power tillers. He is working as a mechanic at M/s Pushpak Traders, Baripada, the authorized dealer of M/s VST Tillers Tractors Ltd and earning around Rs.20,000/- per month.



3.

4. **Sri Mukesh Dhala**, a trainee from village Nilakanthapur, Dist. Kendrapara joined two weeks training programme on “Operation and Maintenance of Rice Transplanter” from 15th to 27th July, 2019. After being trained on preparation of mat type nursery in field, dismantling and assembling of transplanter engine, gear box and finger assembly, trouble shooting and maintenance schedule of transplanter, he is now repairing his transplanter and carrying out transplanting operation in different farmers’ fields on contract basis. He is now earning about Rs. 25,000/- per month and has marked his first step as an entrepreneur.



2020-21

1. **Sri Pabitra Kathua**, who hails from a village named Ostia, Block- Gania, Dist.- Nayagarh joined the two weeks training programme on “Operation and Maintenance of Power Tiller” from 08th to 20th February, 2021 organized by this RKVY Project. After learning about the different components and systems of power tiller, dismantling and assembling of engine and gear box of power tiller, he is now involved in repairing his own power tiller and also repairing power tillers in his village. He is no more dependent on mechanics whenever his power tiller goes out of order. He is earning about Rs.5,000/- per month.



of

2. **Sri Abhijeet Barik**, a rural youth from Village- Osangara, Dist.- Kendrapara joined the two weeks training programme on “Operation and Maintenance of Tractor” from 08th to 20th March, 2021 organized by this RKVY Project. After being trained, he has purchased a new tractor along with trolley, cultivator and rotavator. He is now driving his own tractor and also earning by lending tractor on hiring basis in his village. He is earning about Rs.15,000/- per month.



3. **Sri Vinod Bihari Sahu** a trainee from Jujumura, Dist. Sambalpur joined two weeks training programme on “Operation and Maintenance of Tractor” from 08th to 20th March, 2021. After being trained on different systems of engine and power transmission system of tractor, trouble shooting and maintenance schedule of tractor, he has purchased a new tractor and carrying out agricultural operation in different farmers’ fields on contract basis. He is now earning about Rs. 20,000/- per month.



4. **Sri Krushna Chandra Sahu**, a youth from G.Udaygiri of Kandhamal district joined two weeks farmers training programme on “Operation and maintenance of Tractor” during 8-20th March, 2021 organised by the RKVY project. After completion of training he has purchased one tractor with matching equipment like cultivator and rotavator. He is now operating it and through hiring service of his tractor he is earning about Rs 10, 000/- per month.



5. **Sri Bhabanishankar Mohanta** of village Jasipur, Mayurbhanj district has joined the training programme on “Operation and Maintenance of Power Tiller” from 08th to 20th February, 2021 organized by this RKVY Project. After learning about the different components and systems of power tiller, dismantling and assembling of engine and



gear box of power tiller, he is now involved in repairing the power tillers in the nearby areas and is earning about Rs.6,000/- per month.

9. Additional information

a) List of Project parameter:

i) List of Hi-Tech agri machines/Equipment purchased:

- Automatic Nursery raising Machine
- Pulse thresher (motor operated)
- Reversible MB plough
- 3 bottom)
- Happy seeder
- Disc plough
- Multi-crop thresher
- Tractor mounted paddy reaper
- Mini combine harvester
- Rice transplanter, 8-row
- Groundnut digger shaker
- Maize dehusker cum sheller with crop feeding elevator
- Whole straw thresher
- Rotavator (For mini tractor)
- Plastic mulching machine
- Power tiller front mounted reaper
- 6-row rice transplanter
- Baler
- Mini Tractor, 24 hp
- Tractor mounted combine harvester
- Shredder
- Tractor with AC Cabin, 80 hp
- Whole straw combine harvester, 72 hp
- Raised bed planter
- Tractor mounted multi row weeder
- Tractor mounted spading machine
- Maize corn harvester
- Power tiller
- Power tiller with remote control
- Chain saw
- Laser land leveler
- LCD projector
- Laptop
- **Furniture:** Almirah-3, Book case-2, Chair-5, Table-3, Stool-20

ii) **Infrastructure development:**

Workshop and Training hall : 5388 sq.ft

b) **Supporting materials (News items, photos, video , presentation on slide share)**

i) **Doordarshan Programme, 2018-19**

1. Telecast of demonstration programme of Power Pulse thresher in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 21.06.2018



2. Telecast of demonstration programme of Power weeder in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 22.02.2019



3. Telecast of Inaugural function, Training programme on Tractor in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 21.06.2018



4. Telecast of Inaugural function, Training programme on Power Tiller in Krushi Khabar, Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 12.02.2019



5. Telecast of a discussion on RKVY Training & Demonstration programme in Pallishree of Doordarshan Kendra, Bhubaneswar on 18.02.2019



6. Telecast of demonstration programme of zero till drill in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 04.02.2019



7. Telecast of demonstration programme of SCFD in Krushikhabar, Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 08.02.2019



8. Telecast of Training programme on Automatic nursery raising machine in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 12.02.2019



9. Telecast of Training programme on Rice Transplanter in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 21.02.2019



10. Telecast of demonstration programme of whole straw thresher in Krushikhabar, Krushi Darshan of Doordarshan on 06.03.2019



11. Telecast of training programme on operation and maintenance of power tiller in Krushi Darshan of Doordarshan on 06.03.2019



i) **Doordarshan Programme, 2019-20**

1. Telecast of demonstration programme of 4-row walk behind type rice transplanter in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 12.08.2019



2. Telecast of demonstration programme of 8-row riding type rice transplanter in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 03.03.2020



3. Telecast of Training programme on Operation and maintenance of Power tiller in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 30.08.2019



4. Telecast of training program on Operation and maintenance of Tractor in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 06.11.2019



5. Telecast of training program on Operation and maintenance of Tractor in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 18.06.2019



6. Telecast of demonstration program on 4-row walk behind type rice transplanter in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 19.08.2019



- 7. Telecast of training program on Operation and maintenance of Rice transplanter in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 15.03.2020



- 8. Telecast of demonstration program on tractor operated zero till drill in Krushi Darshan of Doordarshan Kendra, Bhubaneswar on 05.02.2020



ii) Publication in Print Media, 2019-20



ଧାନତଲିରୁଆ ଯନ୍ତ୍ରର ବ୍ୟବହାର ତାଲିମ ଶିବିର

ଭୁବନେଶ୍ୱର, ୨୫/୦୩/୨୦୨୦-୨୧: ଉତ୍ତରୀୟ ଧାନ ଚାଷ ଯୋଗ୍ୟ ପ୍ରକଳ୍ପ ପାଇଁ ଅନ୍ୟାନ୍ୟ କୃଷି ଯନ୍ତ୍ରପାତ୍ରର ଉପକାରଣ ଓ ଉପଯୋଗୀ ବିଷୟ ଉପରେ ଶିବିର ଆୟୋଜନ କରାଯାଇଛି। ଉପସ୍ଥାପନ କରାଯାଇଥିବା ଯନ୍ତ୍ରପାତ୍ରର ଉପକାରଣ ଓ ଉପଯୋଗୀ ବିଷୟ ଉପରେ ଶିବିର ଆୟୋଜନ କରାଯାଇଛି। ଉପସ୍ଥାପନ କରାଯାଇଥିବା ଯନ୍ତ୍ରପାତ୍ରର ଉପକାରଣ ଓ ଉପଯୋଗୀ ବିଷୟ ଉପରେ ଶିବିର ଆୟୋଜନ କରାଯାଇଛି।



ଧାନତଲି ରୁଆ ଯନ୍ତ୍ରର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ

କଟକ, ୨୮/୦୩/୨୦୨୦: ଉତ୍ତରୀୟ ଧାନ ଚାଷ ଯୋଗ୍ୟ ପ୍ରକଳ୍ପ ପାଇଁ ଅନ୍ୟାନ୍ୟ କୃଷି ଯନ୍ତ୍ରପାତ୍ରର ଉପକାରଣ ଓ ଉପଯୋଗୀ ବିଷୟ ଉପରେ ଶିବିର ଆୟୋଜନ କରାଯାଇଛି। ଉପସ୍ଥାପନ କରାଯାଇଥିବା ଯନ୍ତ୍ରପାତ୍ରର ଉପକାରଣ ଓ ଉପଯୋଗୀ ବିଷୟ ଉପରେ ଶିବିର ଆୟୋଜନ କରାଯାଇଛି।



ନିତିଦିନ

ଯୁବଚାଷୀଙ୍କ କ୍ଷେତ୍ର ପରଦର୍ଶନ



କଟକ, ୫ମ (ଅପ): ଓଡ଼ିଶା କୃଷି ଓ ଚୈତ୍ୟିକ ବିଭାଗର ଅଧ୍ୟକ୍ଷ କୃଷି ବିଜ୍ଞାନ ଓ ଚୈତ୍ୟିକ ମହାବିଦ୍ୟାଳୟ, ଠାରେ ଚାଳିତ କାର୍ଯ୍ୟକ୍ରମ ଚଳୁଥିବା ବେଳେ ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ଉତ୍ତମ ଚୈତ୍ୟିକ ବିଭାଗର ପ୍ରଫେସର ଉଷା କୁମାରୀଙ୍କ ଅଧ୍ୟକ୍ଷତାରେ କୃଷି ପରଦର୍ଶନ ଚାଳିତ ହୋଇଥିଲା। ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା।

କୃଷି ବିଭାଗ ଓ ଉଚ୍ଚଶିକ୍ଷା ଶାଖାର ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା। ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା।

ନିତିଦିନ

ଧାନଚଳି ରୁଆଯନ୍ତର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ



ଧାନଚଳି ରୁଆଯନ୍ତର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ କାର୍ଯ୍ୟକ୍ରମରେ ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା। ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା।

ନିତିଦିନ

କୃଷି ଯନ୍ତ୍ରପାତି ପ୍ରଦର୍ଶନୀ



ଶ୍ୟାମାଖୁଣ୍ଟା, ୫/୨ (କମିଟ): ଓଡ଼ିଶା କୃଷି ଓ ଚୈତ୍ୟିକ ବିଭାଗର ଅଧ୍ୟକ୍ଷ କୃଷି ବିଜ୍ଞାନ ଓ ଚୈତ୍ୟିକ ମହାବିଦ୍ୟାଳୟ, ଠାରେ ଚାଳିତ କାର୍ଯ୍ୟକ୍ରମ ଚଳୁଥିବା ବେଳେ ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ଉତ୍ତମ ଚୈତ୍ୟିକ ବିଭାଗର ପ୍ରଫେସର ଉଷା କୁମାରୀଙ୍କ ଅଧ୍ୟକ୍ଷତାରେ କୃଷି ଯନ୍ତ୍ରପାତି ପ୍ରଦର୍ଶନୀ ଚାଳିତ ହୋଇଥିଲା। ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି ଯନ୍ତ୍ରପାତିରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା।

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ପ୍ରିଣ୍ଟିଂ-କଟକ ନିର୍ବାହୀ କୋର୍ପୋରେସନ୍

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ଶାମାଖୁଣ୍ଟା କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ରରେ ଧାନ ଚଳିରୁଆ ଯନ୍ତ୍ରର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ

କଟକ, ୫ମ (ନି.ପ୍ର.)-ଓଡ଼ିଶା କୃଷି ଓ ଚୈତ୍ୟିକ ବିଭାଗର ଅଧ୍ୟକ୍ଷ କୃଷି ବିଜ୍ଞାନ ଓ ଚୈତ୍ୟିକ ମହାବିଦ୍ୟାଳୟ, ଠାରେ ଚାଳିତ କାର୍ଯ୍ୟକ୍ରମ ଚଳୁଥିବା ବେଳେ ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ଉତ୍ତମ ଚୈତ୍ୟିକ ବିଭାଗର ପ୍ରଫେସର ଉଷା କୁମାରୀଙ୍କ ଅଧ୍ୟକ୍ଷତାରେ କୃଷି ଯନ୍ତ୍ରପାତି ପ୍ରଦର୍ଶନୀ ଚାଳିତ ହୋଇଥିଲା। ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି ଯନ୍ତ୍ରପାତିରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା।

ଧାନଚଳି ରୁଆଯନ୍ତର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ କାର୍ଯ୍ୟକ୍ରମରେ ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା। ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା।



ଧାନଚଳି ରୁଆଯନ୍ତର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ କାର୍ଯ୍ୟକ୍ରମରେ ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା। ଉପସ୍ଥିତ ଯୁବକ ଓ ଯୁବିକାଙ୍କୁ କୃଷି କ୍ଷେତ୍ରରେ ଉପଯୋଗୀ କରାଯାଇଥିଲା।



ଅତ୍ୟାଧୁନିକ କୃଷି ଯନ୍ତ୍ରପାତିର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ



● ବକଳା, ପିଏନଏସ: ଓଡ଼ିଶା କୃଷି ଓ ବୈଷୟିକ ବିଶ୍ୱବିଦ୍ୟାଳୟ ପକ୍ଷରୁ ଅତ୍ୟାଧୁନିକ କୃଷି ଯନ୍ତ୍ରପାତିର ଚାଲିମ ଓ ଚକ୍ଷଣାବେକ୍ଷଣ କାର୍ଯ୍ୟକ୍ରମର ବିକାଶ ଓ ସଶକ୍ତି କରଣକାରୀ ଗାନ୍ଧୀ ବିଶ୍ୱବିଦ୍ୟାଳୟ ବିକାଶ ଓ ସଶକ୍ତିକରଣ ଗାନ୍ଧୀ ଯନ୍ତ୍ରପାତିର ବିକାଶ ଓ ସଶକ୍ତିକରଣ ଓ ପୁରୀ କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ରର ମିଳିତ ଉଦ୍ୟମରେ ରୁରୁକାର ନିମାପତା ବୁକ ଅର୍ଡର ଶ୍ରୀମୁଖ୍ୟରେ ଧାନ ଅମଳ ପାଇଁ ଗୋଡ଼ା ନତା କମ୍ପାନୀ ଯନ୍ତ୍ରର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ହୋଇଯାଇଛି । କାର୍ଯ୍ୟକ୍ରମରେ ପ୍ରକଳର ମୁଖ୍ୟ ନିରୀକ୍ଷକ ପ୍ରଫେସର ଅଶ୍ୱିନୀ ଚୋପଲ, ଉପମୁଖ୍ୟ ନିରୀକ୍ଷକ ପ୍ରଫେସର ସାତ୍ୟାମ ସାହି, ପୁରୀ ଜିଲ୍ଲାର ନିର୍ବାହୀ ଯନ୍ତ୍ର ଇଂ ପୃଥ୍ୱୀରାଜ ମହାନ୍ତି, କୃଷିବିଜ୍ଞାନ କେନ୍ଦ୍ରର ଯାନ୍ତ୍ରିକ ବୈଜ୍ଞାନିକ

ଦୀପକିକା ପାଟିକିତା, କୃଷି ଯନ୍ତ୍ରପାତି ସମ୍ପର୍କୀୟ ସର୍ବ ଉଚ୍ଚତମ ଆୟୋଜିତ ଉଦ୍ଦେଶ୍ୟା ସହା ପ୍ରଫେସର ପଦ୍ମ ପ୍ରଧାନ ପ୍ରମୁଖ ଉପସ୍ଥିତ ଖଞ୍ଜୁ ଅଧିକ ଅଗ୍ରଣୀ ଚାଷୀଙ୍କୁ ଉକ୍ତ ଯନ୍ତ୍ରର ପରିଚାଳନା, ଚକ୍ଷଣାବେକ୍ଷଣ ଇତ୍ୟାଦି ବିଷୟରେ ବୁଝାଇଥିଲେ । କାର୍ଯ୍ୟକ୍ରମରେ ପ୍ରକଳ ତରଫରୁ ଏକ ନିତି କମ୍ପାନୀ ଯନ୍ତ୍ରର କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ମଧ୍ୟ ଆୟୋଜନ କରାଯାଇଥିଲା । ଏହା ସାହାଯ୍ୟରେ ଛୋଟ ଛୋଟ ଜମିରେ ଧାନ କଟା ଅମଳ କାମ ଏକା ସାଙ୍ଗରେ ସହଜରେ କରାଯାଇପାରେ । ଏହି ଛତ୍ର କ୍ଷେତ୍ରର ପ୍ରଦର୍ଶନ ଆୟୋଜନ କରିବାରେ ନିକଟବର୍ତ୍ତୀ ଡେସିକା ଗ୍ରାମର ଅଗ୍ରଣୀ ଚାଷୀ ସାତ୍ୟାମ ପାତ୍ର ଓ ଶ୍ରୀମୁଖ୍ୟର ଶିବାଶିଷ୍ୟ ବେହେରା ସହଯୋଗ କରିଥିଲେ ।



ଏକ ସମ୍ବନ୍ଧିତ ସମ୍ପର୍କରେ କହିଛନ୍ତି ଯେ ଏହି ଅତ୍ୟାଧୁନିକ ଯନ୍ତ୍ରର ଯେଉଁ ଯେଉଁ ସମ୍ପର୍କରେ ଅତି ସହଜରେ ଯୁଗନ

ଏହାର ପ୍ରାୟ ପ୍ରତି ୭-୧୦ଲକ୍ଷ ରହିବ । ଏହା ଗୋଟିଏ ପରିଚାଳନା ଲାଭି ଜାପାନରୁ ସୁରକ୍ଷା ଛୋଟି ନେଇଛି ବୋଲି ସେ କହିଛନ୍ତି ।

ଓୟୁଏଟିରେ ଟ୍ରାକ୍ଟର ଚାଲନା, ମରାମତି ତାଲିମ କାର୍ଯ୍ୟକ୍ରମ

ଭୁବନେଶ୍ୱର, ୮/୩/୧୯୯୯: ଓୟୁଏଟି ଅଧିକାରୀଙ୍କ ଦ୍ୱାରା ଅତ୍ୟାଧୁନିକ କୃଷି ଯନ୍ତ୍ରପାତିର ଚାଲିମ ଓ କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ନିମନ୍ତେ କାର୍ଯ୍ୟକ୍ରମ ଆୟୋଜିତ ହୋଇଛି । ଯେଉଁଥିରେ କୃଷକ ବିଶ୍ୱବିଦ୍ୟାଳୟ ବିଭାଗ ଓ ଉତ୍ତମାଳୟ ଶାସକ ରାଷ୍ଟ୍ରୀୟ କୃଷି ବିଭାଗ ପ୍ରକଳ ପ୍ରକଳ ଦ୍ୱାରା ସହାୟ ବ୍ୟାପୀ ଟ୍ରାକ୍ଟର ଚାଲନା, ମରାମତି ଓ ଉତ୍ତମାଳୟ ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ ଆୟୋଜନ କରାଯାଇଛି । ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ବାଲେଶ୍ୱର, ଭୁବନେଶ୍ୱର, ମୟୂରଭଞ୍ଜ, ସୁନ୍ଦରଗଡ଼, ପୁରୀ, ଖୋର୍ଦ୍ଧା, ସୋନପୁର, ଗଞ୍ଜାମ ଆଦି ଜିଲ୍ଲାରୁ ଉପସ୍ଥିତ କର୍ମଚାରୀ ୨୦ ଲକ୍ଷ ଯୁବ ଗଣା ହୋଇ ଉପସ୍ଥିତ ହେବେ । ଦୁଇ ସହାୟକ ବ୍ୟାପୀ ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମ ମଧ୍ୟରେ ଏହି ଯୁବ ଗଣାକୁ ଟ୍ରାକ୍ଟର ଚାଲନା, ବ୍ୟବହାର, ମରାମତି, ଉତ୍ତମାଳୟ ଇତ୍ୟାଦି ବିଷୟରେ ସର୍ବଶେଷ ବ୍ୟବହାରିକ ଜ୍ଞାନ ଦେଖାଇ ଦିଆଯାଇ ଚାଲିମ ପ୍ରଦାନ କରାଯିବ ବ୍ୟବସ୍ଥା କରାଯାଇଛି । ଏହି ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ କୃଷି ଯନ୍ତ୍ର ଓ ବୈଷୟିକ ମହାବିଦ୍ୟାଳୟର ଅଧ୍ୟକ୍ଷ ପ୍ରଫେସର ସତ୍ୟକ

ଦ୍ୱାରା ଦିଆ ଯୁବ ଗଣାମାନେ ଟ୍ରାକ୍ଟର ବିଷୟରେ ଚାଲିମ ନେଇ ଉତ୍ତମାଳୟ ଅନୁକୋଶରେ କୃଷି ଯନ୍ତ୍ରପାତିର ପ୍ରଦାନ ଓ ପ୍ରଚାର କରିବେ ପ୍ରମୁଖ ଭୂମିକା ଗ୍ରହଣ କରିବେ ବୋଲି ଅଧ୍ୟକ୍ଷ ପ୍ରକଳ କହିଥିଲେ । କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ଓ ଶକ୍ତି ବିଭାଗର ମୁଖ୍ୟ ପ୍ରଫେସର ବେହେରା ବେହେରା ଏହି ଗଣାକୁ ବରିଷ୍ଠ ବୈଜ୍ଞାନିକ ଓ ଭୁବନେଶ୍ୱର ମେକାନିକାଲ ସହାୟକରେ ଟ୍ରାକ୍ଟରର ବ୍ୟବହାର, ମରାମତି ଓ ପରିଚାଳନା ସମ୍ପର୍କରେ ସମସ୍ତ ଉପସ୍ଥିତ ଯୁବକଙ୍କୁ ଚାଲିମ ଦେଖାଇ ଦିଆଯାଇଛି । ଏହି ପ୍ରକଳର ମୁଖ୍ୟ ନିରୀକ୍ଷକ ପ୍ରଫେସର ଅଶ୍ୱିନୀ କୁମାର ଚୋପଲ ଦ୍ୱାରା ସହାୟକ ବ୍ୟାପୀ ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ ଉପସ୍ଥିତ ଗଣାଙ୍କୁ ବିଭାଗରେ ଆକୋଚନ କରିଥିଲେ । ଏହି ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ ସର୍ବଶେଷ ଜ୍ଞାନ ପ୍ରଦାନ କରାଯିବ ବ୍ୟବସ୍ଥା କରାଯାଇଛି ବୋଲି ପ୍ରକଳର ଉପ ମୁଖ୍ୟ ନିରୀକ୍ଷକ ପ୍ରଫେସର ସତ୍ୟକ କେଶରୀ ସ୍ୱର୍ଣ୍ଣ ସୂଚନା ଦେଇଥିଲେ ।

ଅଜଣା ଗାଡ଼ି ଧକ୍କାରେ ବାଇକ୍ ଆରୋହୀ ମୃତ



ନ ରାଜ୍ୟସ୍ତରୀୟ ଧାନଚଳି ରୁଆ ଯନ୍ତ୍ର ତାଲିମ କାର୍ଯ୍ୟକ୍ରମ



ଭୁବନେଶ୍ୱର, ୨୨/୧୯/୯୯: ଓୟୁଏଟି ଅଧିକାରୀଙ୍କ ଦ୍ୱାରା ଅତ୍ୟାଧୁନିକ କୃଷି ଯନ୍ତ୍ରପାତିର ଚାଲିମ ଓ କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ନିମନ୍ତେ ଏକ କାର୍ଯ୍ୟକ୍ରମ ଆୟୋଜିତ ହୋଇଛି । ଏହାରେ କୃଷି କ୍ଷେତ୍ରରେ ବିଶ୍ୱବିଦ୍ୟାଳୟ ବିଭାଗ ଓ ଉତ୍ତମାଳୟ ଶାସକ ରାଷ୍ଟ୍ରୀୟ କୃଷି ବିଭାଗ ପ୍ରକଳ ପ୍ରକଳ ଦ୍ୱାରା ସହାୟ ବ୍ୟାପୀ ଟ୍ରାକ୍ଟର ଚାଲନା, ମରାମତି ଓ ଉତ୍ତମାଳୟ ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ ଆୟୋଜନ କରାଯାଇଛି । ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ବାଲେଶ୍ୱର, ଭୁବନେଶ୍ୱର, ମୟୂରଭଞ୍ଜ, ସୁନ୍ଦରଗଡ଼, ପୁରୀ, ଖୋର୍ଦ୍ଧା, ସୋନପୁର, ଗଞ୍ଜାମ ଆଦି ଜିଲ୍ଲାରୁ ଉପସ୍ଥିତ କର୍ମଚାରୀ ୨୦ ଲକ୍ଷ ଯୁବ ଗଣା ହୋଇ ଉପସ୍ଥିତ ହେବେ । ଦୁଇ ସହାୟକ ବ୍ୟାପୀ ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମ ମଧ୍ୟରେ ଏହି ଯୁବ ଗଣାକୁ ଟ୍ରାକ୍ଟର ଚାଲନା, ବ୍ୟବହାର, ମରାମତି, ଉତ୍ତମାଳୟ ଇତ୍ୟାଦି ବିଷୟରେ ସର୍ବଶେଷ ବ୍ୟବହାରିକ ଜ୍ଞାନ ଦେଖାଇ ଦିଆଯାଇ ଚାଲିମ ପ୍ରଦାନ କରାଯିବ ବ୍ୟବସ୍ଥା କରାଯାଇଛି । ଏହି ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ କୃଷି ଯନ୍ତ୍ର ଓ ବୈଷୟିକ ମହାବିଦ୍ୟାଳୟର ଅଧ୍ୟକ୍ଷ ପ୍ରଫେସର ସତ୍ୟକ କେଶରୀ ସ୍ୱର୍ଣ୍ଣ ସୂଚନା ଦେଇଥିଲେ । ଏହି ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ କୃଷି ଯନ୍ତ୍ର ଓ ବୈଷୟିକ ମହାବିଦ୍ୟାଳୟର ଅଧ୍ୟକ୍ଷ ପ୍ରଫେସର ସତ୍ୟକ କେଶରୀ ସ୍ୱର୍ଣ୍ଣ ସୂଚନା ଦେଇଥିଲେ । ଏହି ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ କୃଷି ଯନ୍ତ୍ର ଓ ବୈଷୟିକ ମହାବିଦ୍ୟାଳୟର ଅଧ୍ୟକ୍ଷ ପ୍ରଫେସର ସତ୍ୟକ କେଶରୀ ସ୍ୱର୍ଣ୍ଣ ସୂଚନା ଦେଇଥିଲେ ।




ଓୟୁଏଟିରେ ପାଠ୍ୟପୁସ୍ତକ ଚାଲିମ କର୍ମଶାଳା


ଭୁବନେଶ୍ୱର, ୧୩/୩/୧୯୯୯: ଓୟୁଏଟି ଅଧିକାରୀଙ୍କ ଦ୍ୱାରା ଅତ୍ୟାଧୁନିକ କୃଷି ଯନ୍ତ୍ରପାତିର ଚାଲିମ ଓ କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ନିମନ୍ତେ ଏକ କାର୍ଯ୍ୟକ୍ରମ ଆୟୋଜିତ ହୋଇଛି । ଏହାରେ କୃଷି କ୍ଷେତ୍ରରେ ବିଶ୍ୱବିଦ୍ୟାଳୟ ବିଭାଗ ଓ ଉତ୍ତମାଳୟ ଶାସକ ରାଷ୍ଟ୍ରୀୟ କୃଷି ବିଭାଗ ପ୍ରକଳ ପ୍ରକଳ ଦ୍ୱାରା ସହାୟ ବ୍ୟାପୀ ଟ୍ରାକ୍ଟର ଚାଲନା, ମରାମତି ଓ ଉତ୍ତମାଳୟ ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ ଆୟୋଜନ କରାଯାଇଛି । ଏହି କାର୍ଯ୍ୟକ୍ରମରେ ବାଲେଶ୍ୱର, ଭୁବନେଶ୍ୱର, ମୟୂରଭଞ୍ଜ, ସୁନ୍ଦରଗଡ଼, ପୁରୀ, ଖୋର୍ଦ୍ଧା, ସୋନପୁର, ଗଞ୍ଜାମ ଆଦି ଜିଲ୍ଲାରୁ ଉପସ୍ଥିତ କର୍ମଚାରୀ ୨୦ ଲକ୍ଷ ଯୁବ ଗଣା ହୋଇ ଉପସ୍ଥିତ ହେବେ । ଦୁଇ ସହାୟକ ବ୍ୟାପୀ ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମ ମଧ୍ୟରେ ଏହି ଯୁବ ଗଣାକୁ ଟ୍ରାକ୍ଟର ଚାଲନା, ବ୍ୟବହାର, ମରାମତି, ଉତ୍ତମାଳୟ ଇତ୍ୟାଦି ବିଷୟରେ ସର୍ବଶେଷ ବ୍ୟବହାରିକ ଜ୍ଞାନ ଦେଖାଇ ଦିଆଯାଇ ଚାଲିମ ପ୍ରଦାନ କରାଯିବ ବ୍ୟବସ୍ଥା କରାଯାଇଛି । ଏହି ଚାଲିମ କାର୍ଯ୍ୟକ୍ରମରେ କୃଷି ଯନ୍ତ୍ର ଓ ବୈଷୟିକ ମହାବିଦ୍ୟାଳୟର ଅଧ୍ୟକ୍ଷ ପ୍ରଫେସର ସତ୍ୟକ କେଶରୀ ସ୍ୱର୍ଣ୍ଣ ସୂଚନା ଦେଇଥିଲେ ।

Training manual


ପାହୁର ଚିଲର ଚାଳନା ଓ ରକ୍ଷଣାବେକ୍ଷଣ



ଅତ୍ୟାଧୁନିକ କୃଷି ଯନ୍ତ୍ରପାତିର ଚାଳନା ଓ କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ନିମନ୍ତେ
ଭିତ୍ତିଭୂମିର ବିକାଶ ଓ ସଶକ୍ତିକରଣ - ରାଷ୍ଟ୍ରୀୟ କୃଷି ବିକାଶ ଯୋଜନା
କ୍ଷେତ୍ର ଯନ୍ତ୍ରପାତି ଓ ଶକ୍ତି ବିଭାଗ
କୃଷି ଯାନ୍ତ୍ରିକ ଓ ଦୈନିକିକ ମହାବିଦ୍ୟାଳୟ
ଓଡ଼ିଶା କୃଷି ଓ ଦୈନିକିକ ବିଶ୍ୱବିଦ୍ୟାଳୟ, ଭୁବନେଶ୍ୱର




ଧାନରୁଆ ଯନ୍ତ୍ରର ବ୍ୟବହାର ଓ ରକ୍ଷଣାବେକ୍ଷଣ



ଅତ୍ୟାଧୁନିକ କୃଷି ଯନ୍ତ୍ରପାତିର ଚାଳନା ଓ କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ନିମନ୍ତେ
ଭିତ୍ତିଭୂମିର ବିକାଶ ଓ ସଶକ୍ତିକରଣ - ରାଷ୍ଟ୍ରୀୟ କୃଷି ବିକାଶ ଯୋଜନା

କ୍ଷେତ୍ର ଯନ୍ତ୍ରପାତି ଓ ଶକ୍ତି ବିଭାଗ
କୃଷି ଯାନ୍ତ୍ରିକ ଓ ଦୈନିକିକ ମହାବିଦ୍ୟାଳୟ
ଓଡ଼ିଶା କୃଷି ଓ ଦୈନିକିକ ବିଶ୍ୱବିଦ୍ୟାଳୟ, ଭୁବନେଶ୍ୱର



ଟ୍ରାକ୍ଟର ଚାଳନା ଓ ରକ୍ଷଣାବେକ୍ଷଣ

ଅତ୍ୟାଧୁନିକ କୃଷି ଯନ୍ତ୍ରପାତିର ଚାଳନା ଓ କ୍ଷେତ୍ର ପ୍ରଦର୍ଶନ ନିମନ୍ତେ
ଭିତ୍ତିଭୂମିର ବିକାଶ ଓ ସଶକ୍ତିକରଣ-ରାଷ୍ଟ୍ରୀୟ କୃଷି ବିକାଶ ଯୋଜନା



କ୍ଷେତ୍ର ଯନ୍ତ୍ରପାତି ଓ ଶକ୍ତି ବିଭାଗ
କୃଷି ଯାନ୍ତ୍ରିକ ଓ ଦୈନିକିକ ମହାବିଦ୍ୟାଳୟ
ଓଡ଼ିଶା କୃଷି ଓ ଦୈନିକିକ ବିଶ୍ୱବିଦ୍ୟାଳୟ, ଭୁବନେଶ୍ୱର

