

DACUM Panel

1. Mr. Surendra Chaudhary, Banana Farming Local Resource Person, Hariyali Agricultural Group, Krishnapur, Kanchanpur
2. Mr. Man Bara Chaudhary, Banana Farming Local Resource Person, Janakalyan Male Group, Phulbari, Kailali
3. Mr. Ram Prasad Chaudhary, Banana Farmer, Janata Primary Farmer Group, Phulbari, Kailali
4. Mr. Raj Bahadur Chand, Banana Farmer, Baijyanath Bagbani Bali Group, Sukhasal, Kanchanpur
5. Mr. Bom Bahadur Chaudhary, Banana Farmer, Janata Primary Farmer Group, Phulbari, Kailali
6. Mr. Ram Prasad Rana, Banana Farmer, Deutibhuli, Kanchanpur
7. Mr. Karma Singh Rana, Banana farmer, Kanchan Banana Group, Rampur Bilasipur, Kanchanpur
8. Mr. Purna Singh Saud, Banana Farming Local Resource Person, Jyoti Banana Production and Agriculture Group, Bhim Municipality, Kanchanpur
9. Mr. Deshram Chaudhary, Banana Farmer, Milan Agriculture Group, Gadariya, Kailali
10. Mr. Ruplal Chaudhary, Banana Farmer, Milan Agriculture Group, Gadariya, Kailali

DACUM Facilitator/Co-facilitator

Mr. Deepak Prasad Poudel,

Deputy Director, NSTB

Mr. Ishwar Chandra Ghimire

Skill Testing Officer, NSTB

Verification Panel

1. Mr. Shreedhar Gyawali, Regional Agriculture Training Center, Dhanghadi, Kailali
2. Mr. Khagendra Prasad Sharma, Sr. ADO, District Agriculture Development Office, Kailali
3. Mr. Govind Raj Joshi, HDO, DADO, Kailali
4. Mr. Purna Singh Saud, Banana Farming Local Resource Person, Jyoti Banana Production and Agriculture Group, Bhim Municipality, Kanchanpur
5. Mr. Padam Bahadur Singh, HDO, DADO, Kailali
6. Mr. Ram Prasad Subedi, Banana Farmer, Srijansil Agriculture Group, Kanchanpur
7. Mr. Lila Raj Joshi, Banana Farming Local Resource Person, Nepal Education Development, Kanchanpur
8. Mr. Jagat Bahadur Singh, JTA(AG), Kanchanpur
9. Mr. Ganesh Chandra Dhakal, Sr. ADO, DADO, Kanchanpur
10. Mr. Tika Ram Chaudhary, Banana Farmer, Milan Farmer Group, Gadariya, Kailali
11. Mr. Bishram Chand, HDO, DADO, Kanchanpur
12. Mr. Surendra Chaudhary, Banana Farming Local Resource Person, Hariyali Agricultural Group, Krishnapur, Kanchanpur

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Technical Sub Committee

Dr. Hari Dahal

Coordinator, Agriculture TSC

Dr. Kul Bahadur Basnet-Member

Director, NSTB

Mr. Purushottam Prasad Khatiwada -

Member, Sr. Scientist, HRD, NARC.

Khumaltar

Mr. Kul Dip Ghimire.-Member, Plant

Protection Officer, Central Horticulture

Center, Kirtipur, Kathmandu

Mr. Lal Kumar Shrestha - Member,

Agricultural Economist, Planning Division,

Ministry of Agricultural Development,

Singhadarbar, Kathmandu

Mr. Dharma Prasad Pandey- Member,

Sr. Program Officer, FORWARD Nepal,

Bharatpur, Chitwan

Mr. Tulsi K.C.-Member

Sr. Skill Testing Officer, NSTB

Mr. Ishwar Chandra Ghimire- Member

Skill Testing Officer, NSTB

Mr. Prabin Raj Adhikari-Mem. Secretary

Skill Testing Officer, NSTB

Occupational Profile



Banana Farming Technical Assistant, L-1

(DACUM Workshop on 6-7 February, 2013)

(Customized DACUM on 8th February, 2013)

(Technical Sub-Committee Meeting on 24 February, 2013)



Council For Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madyapur Thimi 17, Sanothimi, Bhaktapur

Nepal

(NSTB approval date)

A. पूर्व तयारी गर्ने (Perform Pre-works)

A1. खेती योजना तयार गर्ने (Prepare farm plan)			A2. जग्गा छनौट गर्ने । (Select banana farming land)			A3. माटोको नमूना संकलन गर्ने (Collect soil sample)			A4. औजार तथा उपकरण संकलन गर्ने (Collect tools and equipment)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	2	1	3	1	1	2	1	3
A5. औजार तथा उपकरणको सामान्य र्ममत गर्ने (Perform simple maintenance of tools and equipment)			A6. विरुवा (पोथ्रा)/वेर्ना छनौट गर्ने (Select sucker/plantlet)			A7. विरुवा (पोथ्रा)/वेर्ना संकलन गर्ने (Collect sucker/plantlet)					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
3	2	1	3	1	1	3	1	1			

B. मल तयार/प्रयोग गर्ने (Prepare/Apply Fertilizers/Manure)

B1. सुधारीएको गोठे मल बनाउने (Prepare improved Farm Yard Manure)			B2. थुप्रो विधिबाट सुधारीएको कम्पोष्ट मल बनाउने (Prepare compost manure by heap method)			B3. खाल्डो विधिबाट सुधारीएको कम्पोष्ट मल बनाउने (Prepare compost manure by pit method)			B4. मुत्र संकलन गर्ने (Collect urine)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	2	2	3	2	2	3	2	2
B5. पिना मल बनाउने (Prepare oil cake manure)			B6. मलखाद /शुक्ष्म खाद्य तत्वको मात्रा निकाल्ने (Calculate amount of manure/fertilizer/ micro nutrient)			B7. रिङ्ग प्रविधिबाट प्राङ्गारिक मल हाल्ने (Apply organic manure by ring/line method)			B8. कुलेसो प्रविधिबाट प्राङ्गारिक मल हाल्ने (Apply organic manure by ring/line method)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	3	3	1	3	3	1	3
B9. रिङ्ग प्रविधिबाट रसायनिक मल हाल्ने (Apply chemical fertilizer by ring/line method)			B10. कुलेसो प्रविधिबाट रसायनिक मल हाल्ने (Apply chemical fertilizer by ring/line method)			B11. अर्ध रिङ्ग प्रविधिबाट रसायनिक मल हाल्ने (Apply fertilizer by half ring method)			B12. विरुवामा शुक्ष्म खाद्य तत्व छर्ने (Apply micro nutrient)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	3	3	3	1	3	2	1
B13. मुत्र मलको मात्रा मिलाउने/छर्ने (Formulate/Apply proportion of urine)											
Task rating											
Importance	Difficulty	Frequency									
3	1	3									

C. जग्गा तयार गर्ने (Prepare Main Field)

C1. जग्गा खनजोत गर्ने (Perform ploughing of land)			C2. अनावश्यक बस्तु हटाउने (Remove unnecessary materials)			C3. जग्गा सम्याउने (Label the land)			C4. जिप्सम/कृषिचुनले माटो उपचार गर्ने (Reclaim soil by using gypsum/agri-lime)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	1	3	3	1	1	2	2	1
C5. रेखाङ्कन गर्ने (Perform layout)			C6. खाडल खन्ने (Dig pit)			C7. मल र माटोको मिश्रणले खाडल भर्ने (Fill pit with mixture of manure/ fertilizer and soil)			C8. खाडलको बीचमा किला गाड्ने (Perform pegging on center of pit)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	2	3	3	2	1	3	1	1

DUTIES and TASKS

D. बिरुवा रोप्ने (Perform Propagule Planting)

D1. गानो तयार गर्ने (Prepare rhizome)			D2. गानोको उपचार गर्ने (Treat rhizome)			D3. केराको गानो रोप्ने (Plant rhizome)			D4. केराको पोथ्रा रोप्ने (Plant sucker)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
2	2	2	3	2	3	3	2	2	3	2	2
D5. केराको बेर्ना रोप्ने (Perform sapling planting)			D6. ड्याड बनाउने (Make ridge)			D7. कुलोबाट सिंचाई गर्ने (Perform furrow irrigation)			D8. पाइपबाट सिंचाई गर्ने (Perform hose pipe irrigation)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	1	3	1	3	3	1	3	3	2	2
D9. पानीको निकास बनाउने (Construct drainage way)											
Task rating											
Importance	Difficulty	Frequency									
3	1	1									

E. बगैँचा व्यवस्थापन गर्ने (Protect/Manage Orchard)

E1. बार लगाउने (Make boundary)			E2. हुरी अवरोधक बिरुवा लगाउने (Plant wind break plants)			E3. गोडमेल गर्ने (Perform weeding)			E4. बाली काँटछाँट गर्ने (Perform pruning)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	2	1	3	1	3	3	2	3
E5. उकेरा दिने (Perform earthing up)			E6. टेका लगाउने (Give staking)			E7. फललाई घामबाट बचाउने (Protect fruit from scorching)			E8. फललाई चिसोबाट बचाउने (Protect fruit from cold)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	2	3	3	2	3	3	2	3
E9. केराको अनावश्यक पोथ्रा हटाउने (Remove unnecessary sucker)			E10. केराको बुझो हटाउने (Remove flower bud)			E11. फल लिइसकेको माउ बोट हटाउने (Remove harvested plant/mattoking)			E12. काटेको माउ बोट कम्पोष्ट बनाउने (Prepare compost harvested plant/mattoking)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	1	3	2	3	3	1	1	3	2	2

F. रोग/कीरा व्यवस्थापन गर्ने (Manage Disease/Insect Pest)

F1. रोग/कीरा पहिचान गर्ने (Identify insect/disease)			F2. रोग कीरा ग्रस्त बोट हटाउने (Remove infected plant)			F3. बोर्दो मिश्रण बनाउने (Prepare bordeaux mixture)			F4. खपटको लागि स्प्रेबाट विषादी छर्ने (Apply chemical pesticide for beetle)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	3	3	1	1	3	1	1
F5. घुन/गवारोको लागि स्प्रेबाट रसायनिक विषादी छर्ने (Apply chemical pesticide for weevil/borer)			F6. बोर्दो मिश्रण छर्ने (Apply bordeaux mixture)								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	3	3	3	1	3						

DUTIES and TASKS

G. बाली भित्रयाउने र भित्रयाए पछिका कार्यहरु गर्ने (Perform Harvest/Post Harvest Management)

G1. बालीको परिपक्वता जाँच गर्ने (Examine crop maturity)			G2. केराको घरी काट्ने (Harvest bunch)			G3. हाता छुट्याउने (Separate palm)			G4. छनौट र ग्रेडिङ गर्ने (Perform sorting/grading)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	1	3	2	1	3	3	1	3
G5. भण्डारण गर्ने (Perform storing)			G6. केरा पकाउने (Perform ripening)								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	2	3	2	1	2						

H. बजारिकरण गर्ने (Perform Marketing)

H1. बजार सम्बन्धी सूचना संकलन गर्ने (Collect current market information)			H2. लागत विश्लेषण तथा मुल्य निर्धारण गर्ने (Perform costing and pricing)			H3. प्याकिङ गर्ने (Perform packing)			H4. सुरक्षित ढुवानी गर्ने (Perform safe transportation)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	3	3	2	3	3	3	3
H5. आय व्यायको हिसाब राख्ने (Maintain income and expenditure record)											
Task rating											
Importance	Difficulty	Frequency									
3	2	3									

I. संचार गर्ने (Perform Communication)

I1. किसान/कृषक समुहसंग संचार गर्ने Communicate with farmer/farmer groups)			I2. ग्राहकसंग संचार गर्ने (Communicate with customer)			I3. एग्रोभेटसंग संचार गर्ने (Communicate with Agro-vets)			I4. कृषि सेवा केन्द्रसंग संचार गर्ने (Communicate with agriculture service center)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	2	1	3	1	3	3	1	3
I5. होल सेलरसंग संचार गर्ने (Communicate with wholesaler)			I6. पेशागत संगठन संग संचार गर्ने (Communicate with professional organization)			I7. बजार स्थल /संकलन केन्द्र /सहकारीसंग संचार गर्ने (Communicate with market/collection center/cooperative)			I8. स्थानीय निकायसंग संचार गर्ने (Communicate with local authorities)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	2	1	3	1	3	3	1	3
I9. प्राविधिकसंग संचार गर्ने (Communicate with wholesaler)											
Task rating											
Importance	Difficulty	Frequency									
3	1	3									

J. पेशागत दक्षता विकास गर्ने (Develop Professionalism)

J1. पत्रपत्रिका/पुस्तक पढ्ने (Read newspapers/brochure/ booklets)			J2. तालीम लिने (Participate in training)			J3. औद्योगिक मेलामा भाग लिने (Participate in exhibition)			J4. कार्यशाला/गोष्ठीमा भाग लिने (Participate in related workshop/seminar)		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	1	3	3	1	3	3	1
J5. सम्बन्धित फिल्ड अवलोकन गर्ने (Visit related site)											
Task rating											
Importance	Difficulty	Frequency									
3	1	1									

Rating options:

1= Low 2= Medium 3= High

Additional Information for Job Title

<p style="text-align: center;"><u>Worker Traits</u></p> <ul style="list-style-type: none">• Honest• Laborious• Polite• Co-Operative• Decisive• Disciplined• Transparent• Punctual• Helpful• Confidence• Active farmer• Innovative• Responsibility• Accountability	<p style="text-align: center;"><u>Entry Requirement</u></p> <p style="text-align: center;">3 Months (390hrs.) training</p> <p style="text-align: center;">or</p> <p style="text-align: center;">As per NSTB Rules</p>	<p style="text-align: center;"><u>Career Path</u></p> <ul style="list-style-type: none">• Banana Farming Technician, L-2
<p><u>Related Technical Knowledge</u></p> <p>Knowledge on:</p> <ul style="list-style-type: none">• History, importance and distribution• Climatic requirement for banana.• IPM(Integrated Pest Management)• Integrated Plant Nutrient System Management (IPNS)• Sustainable farming.• Ripening methods• Propagation technique of banana (Tissue culture, rhizome and Sucker nursery)• Suitable soil types.• Importance of irrigation, critical stages and types of irrigation (Furrow, flood, drip)• Techniques of soil sampling.• Kinds and maintenance of tools and equipment• Site selection and land preparation.• Selection of varieties and planting materials of banana.• Measurement and its units.• Acidic and alkaline soil and their treatment.• Importance of poly house and shade house.• Uses of essential plant nutrients (primary, secondary, micro nutrient)• Time and method of fertilizer uses.• Amount calculation of fertilizer.• Time, stage and method of harvesting.• Cleaning, grading and storage.• Safe packaging/transportation.• Market channel and marketing.• Action planning and research.• Handling of tools/equipment.• Availability and price of inputs and outputs.• Record keeping system.• Safety and precautions.• Hygiene.• Simple calculation of cost of production.• Orchard insurance and its policy.• Agri-loan procurement process.• Organic banana farming	<p><u>Tools and Equipment</u></p> <ul style="list-style-type: none">• Weighing balance• Sickle• Scissors• Sprayer• Spade• Hoe• Sealing machine• "Doko" (Basket)• Crate• Gloves• Mask• Gum boot• Apron• Measuring cylinder• Measuring tape• Cycle• Watering can• Pump set• Hose pipe• "Khanti"• Rope• "Thela/gada"• Racker/"Dante"• Calculator• Mug and bucket• Axe• Hand saw• Hammer• Thermometer• Foresip• Planting board	

DUTIES and TASKS