

## ICAR - NRCB technologies available for Transfer of Technology (ToT)

### (Cost/Entrepreneur)

S.No.	Technology	Cost of Technology* (Rs.)
<b>I</b>	<b>Crop Improvement</b>	
	Next generation tissue culture technology - SERV	15,00,000/-
	Up scaling of embryogenic cells using bubble type bioreactor	2,50,000/-
	Bioreactor - Shoot tip culture technology	99,000/-
	Nursery technology for Banana	10,000/-
	Low cost tissue culture protocol for commercial banana varieties	50,000/-
<b>II</b>	<b>Crop Production</b>	
	Banana Sakthi - Micronutrient mixture	90,000/- + Royalty@5/-kg sold
<b>III</b>	<b>Crop Protection</b>	
1.	A simple, rapid and solvent free nucleic acid extraction protocol for detection of banana bunchy top virus	20,000/-
2.	Ready to use ELISA kit for simultaneous detection of BBrMV and CMV in banana samples	90,000/-
3.	Ready to use Indirect ELISA kit for detection of cucumber mosaic virus in banana samples	90,000/-
4.	Ready to use Indirect ELISA kit for detection of banana bract mosaic virus in banana samples	90,000/-
5.	Immuno lateral flow device (LFD) kit for onsite detection of cucumber mosaic virus (CMV).	90,000/-
6.	LAMP based diagnosis of Cucumber Mosaic Virus (CMV)	50,000/-
7.	LAMP based diagnosis of banana streak MY virus (BSMYV)	50,000/-
8.	Lateral Flow Immuno Assay (LFIA) strip or immuno strip kit for onsite detection of banana bract mosaic virus	90,000/-
9.	PCR based technology for the detection of banana bunchy top virus (BBTV)	75,000/-
10.	PCR based technology for the detection of banana streak MY virus (BSMYV)	75,000/-
11.	RT-PCR based technologies for the detection of banana mosaic caused by cucumber mosaic virus (CMV)	75,000/-
12.	RT-PCR based technologies for the detection of banana bract mosaic caused by banana bract mosaic virus (BBrMV)	75,000/-
13.	Triple antibody sandwich ELISA (TAS-ELISA) kit for detection of banana bract mosaic virus (BBrMV) * Includes 1 TAS - ELISA kit for BBrMV.	90,000/- + Royalty @ 10 % of the testing charges
14.	Triple antibody sandwich ELISA (TAS-ELISA) kit for detection of cucumber mosaic virus (CMV) * Includes 1 TAS – ELISA kit for CMV	90,000/- + Royalty @ 10 % of the testing charges
<b>IV</b>	<b>Post-Harvest Technology</b>	
<b>Technologies for fresh produce</b>		

1	Post-harvest handling, packing, storage and ripening of banana for Domestic and Export Markets	25,000/-
2	Minimal processing of banana central core stem	15,000/-
3	Minimal processing of banana flower	15,000/-
4	Technologies for handling leaf for domestic and export markets	15,000/-
5	Minimal processing of banana slices, flower, central core stem and rhizome	50,000/-
<b>Technologies using unripe banana</b>		
1	Minimal processing of cut banana slices	15,000/-
2	Banana flour	15,000/-
3	Prebiotic rich Banana Flour based biscuits	25,000/-
4	Banana flour based weaning (Baby) food	15,000/-
5	Banana flour based health drink	15,000/-
6	Low fat fortified chips	25,000/-
7	Process for making banana grits/ Suji and flakes	25,000/-
8	Low glycemic prebiotic extruded snacks like noodles, pasta	25,000/-
9	Extraction of banana starch & starch modification	25,000/-
10	Resistant starch rich bakery and confectionary products like bread, pizza and cookies	25,000/-
<b>Technologies using ripe banana</b>		
1	Dehydrated ripe banana (Banana FIG)/Glazed Ripe Banana	25,000/-
2	Banana sauce	15,000/-
3	Banana sweet chutney	15,000/-
4	Banana jam	25,000/-
5	Ready to serve banana drink	25,000/-
6	Banana fruit pickle	15,000/-
7	Cost effective ripe banana powder	25,000/-
8	Fortified basil seed suspended banana juice	25,000/-
9	Fortified banana nutri-bars	15,000/-
10	Chilled banana sip-up	15,000/-
11	Functional banana ripe powder based confectionaries like doughnut, muffins, cake	25,000/-
12	Banana wine	50,000/-
13	Banana vinegar	50,000/-
14	Low fat flavoured yogurt	15,000/-
<b>Technologies to use banana by products like flower, stem etc</b>		
1	Banana flower pickle	15,000/-
2	Banana Flour based soup mix	15,000/-
3	Banana central core stem pickle	15,000/-
4	Banana central core stem juice/RTS	25,000/-
5	Banana peel pickle	15,000/-
6	Nutraceutical Banana flower-based health mix	15,000/-
7	Immune boosting Banana low sodium pickles	15,000/-
8	Refreshing Central core stem based soup mix	15,000/-
9	Savoury Instant Ice-cream mix	15,000/-
10	Banana rhizome based products starch and ready to serve drink	15,000/-

11	Production of biodegradable film from banana peel and banana starch	25,000/-
12	Extraction of dietary fibre from central core stem and pectin from banana peel	25,000/-
<b>Non-food applications</b>		
1	Extraction and softening of banana fibre	25,000/-
2	Utilization of stem sheath for making plates and handicrafts	50,000/-
3	Extraction of cellulose and other utility compounds like pectin and hemicellulose	25,000/-

\* The cost mentioned is exclusive of 18% GST and it is for providing technology transfer to single entrepreneur.

- 10% reduction will be given while taking any two technologies together. Beyond that additional 5% off will be given for the technology.
- The duration of the ToT is two to three days.
- This is exclusive of boarding & lodging expenses.
- This rate will not be applicable to the FPOs, if they opted to come in big group

### **ToT FEES PAYMENT METHODS**

#### **DEMAND DRAFT (DD)**

The ToT fees pertaining to the selected/chosen technology/technologies may be remitted in the form of demand draft drawn in favor of “**ICAR Unit, NRCB, payable at Tiruchirappalli**”.

#### **ONLINE PAYMENT**

#### **SBI A/c details of ICAR - NRCB (Net banking: RTGS/NEFT)**

- i) Name of the Account holder : ICAR UNIT-NRCB, Trichy
- ii) Bank Name : STATE BANK OF INDIA
- iii) Branch Name : Tiruchirappalli
- iv) Complete Postal Address : 21, 7, Mac donalds Road, Cantonment,  
Tiruchirappalli - 620 001.
- v) Telephone No : 0431-2414525
- vi) Bank Account Number : 10848468903

vii) Type of Account : Current Account  
viii) IFSC code : SBIN0000930  
ix) 9 digit MICR code : 620002002  
x) SWIFT Code : SBININBB467

**The details of transaction for the remittance should be communicated to the [directornrcb@gmail.com](mailto:directornrcb@gmail.com) / [itmunrcb@gmail.com](mailto:itmunrcb@gmail.com) in the prescribed Application form (Annexure-I).**

**For queries and clarifications please contact,**

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**ICAR - National Research Centre for Banana**  
***Tiruchirappalli – 620 102, Tamil Nadu***

**Application Form**

Name of the Technology :  
(Option)

Medium of Instruction (option) :  
(Tamil/English/Hindi/Malayalam)

Name of the Applicant/Sponsor :

Designation/Occupation :

Educational qualification :

Address for the Correspondence :  
(Including mobile No. and mail id)

Purpose for undertaking ToT :

Experience in the field, if any :

Fees remitted details :

DD No. / Transaction ID.....Dated.....for Rs.

**Place:**

**Signature**

**Date:**

Sent the duly filled application copy to [directornrcb@gmail.com](mailto:directornrcb@gmail.com)/ [director.nrcb@icar.gov.in](mailto:director.nrcb@icar.gov.in)/  
with a copy to [itmuncrb@gmail.com](mailto:itmuncrb@gmail.com) / [hoa.nrcb@icar.gov.in](mailto:hoa.nrcb@icar.gov.in).

**For further details please contact the undersigned**

**The Director**  
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