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

(Cost/Entrepreneur)

S. No.	Technology	Cost of Technology* (Rs.)
I	**Crop Improvement**	
*1.	Udhayam – A high yielding Pisang Awak type banana variety	15000/-
*2.	Kaveri Saba – Drought and saline tolerant cooking banana variety	15000/-
*3.	Kaveri Haritha – Dual type banana (Cooking + Dessert) for backyard gardens	15000/-
4.	Kaveri Sugantham – A high yielding fragrant banana variety	15000/-
5.	Kaveri Kalki – A new dwarf banana variety	15000/-
*6.	Kaveri Kanya – High yielding cooking type banana	15000/-
7.	Grand Naine – A disease resistant banana mutant (NRCBGNM 1)	20000/- + Royalty of Rs.1.00 / Sucker / Plantlet Sold
8.	Kaveri Vaamana (TBM – 9)	20000/- + Royalty of Rs.1.00 / Sucker / Plantlet Sold
9.	Inter-specific ornamental banana hybrids (Each)	50000/-
10.	New generation tissue culture technology – SERV	15,00,000/-
11.	Up scaling of embryogenic cells using bubble type bioreactor	2,50,000/-
12.	Bioreactor - Shoot tip culture technology	99,000/-
13.	Nursery technology for Banana	15,000/-
14.	Variety specific tissue culture protocols for commercial banana varieties	50,000/-
II	**Crop Production**	
	Banana Sakthi - Micronutrient mixture	3,00,000/- + Royalty@5/-kg sold
III	**Crop Protection**	
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
*15.	Native and versatile antagonistic microbe for the management of postharvest diseases and increase in shelf life of banana	2,00,000/-
*16.	Consortia of native bioagents for the effective management of Fusarium wilt disease (Foc race 1) in banana	4,00,000/-
*17.	Consortia of native antagonistic microbes for the management of eumusae leaf spot disease in banana	2,00,000/-
*18.	Rapid and sensitive detection of Pseudocercospora eumusae pathogen causing eumusae leaf spot disease of banana by loop-mediated isothermal amplification (LAMP) method.	50,000/-
*19.	Mass production of biocontrol agents using cheaper material in the farmer's field	2,00,000/-
*20.	Molecular markers for the diagnosis and detection of Indian Fusarium oxysporum f.sp. cubense	50,000/-
*21.	SCAR-based Conventional and TaqMan real time PCR for the specific detection of *Mycosphaerella eumusae*	50,000/-
*22.	Banana bio-stimulant for improved growth and yield	2,00,000/-
IV	**Post-Harvest Technology**	
Technologies for fresh produce		
1.	Post-harvest handling, packing, storage and ripening of banana for Domestic and Export Markets	25,000/-
2.	Technology for handling leaf for domestic and export markets	25,000/-
Technologies using unripe banana		
1	Minimal processing of banana slices, flower, central core stem and rhizome	35,000/-
2	Low fat fortified & flavoured chips	25,000/-
3	Process for making banana grits/ Suji and flakes	25,000/-
4	Prebiotic rich Banana Flour based biscuits	25,000/-
5	Banana flour-based weaning (Baby) food / health drink/ Nutri-bar	25,000/-
6	Low glycemic prebiotic extruded snacks like noodles, pasta	25,000/-
7	Extraction of banana starch & starch modification / Resistant starch rich bakery and confectionary products like bread, pizza and cookies	35,000/-
Technologies using ripe banana		
1.	Dehydrated ripe banana (Banana FIG)/Glazed Ripe Banana	25,000/-
2.	Banana sauce & sweet chutney	25,000/-
3.	Banana jam & fruit pickle	25,000/-

4.	Ready to serve clarified banana juice / Fortified basil seed suspended banana juice / Sip-up / Syrup	40,000/-
5.	Cost effective ripe banana powder	25,000/-
6.	Banana wine & vinegar	40,000/-
7.	Low fat flavoured yogurt, probiotic yogurt & desserts	25,000/-
Technologies to use banana by- products like flower, stem etc		
1.	Banana flower, central core stem & peel pickle	30,000/-
2.	Banana flour and core stem based soup mix	25,000/-
3.	Banana central core stem juice/RTS	25,000/-
4.	Nutraceutical Banana flower-based health mix & ice cream mix	25,000/-
5.	Extraction of pectin, dietary fibre and cellulose	50,000/-
Non-food applications		
1.	Extraction and softening of banana fibre for handicrafts, textiles, making plates, bagasse products etc.	50,000/-

* 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 based on the technology
- This is exclusive of boarding & lodging expenses.
- This rate will not be applicable to the FPOs, if they opted to come in big group

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	:	Tiruchirapalli
iv) Complete Postal Address	:	21, 7, Mac donalds Road, Cantonment, Tiruchirapalli - 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
xi) GST No	:	33CHEI10949B1DY

The details of transaction for the remittance should be communicated to the director.nrcb@icar.gov.in with a copy to **itmu.nrcb@icar.gov.in / hoa.nrcb@icar.gov.in in the prescribed Application form (Annexure - I).**

Annexure - I

ICAR - National Research Centre for Banana

Tiruchirappalli – 620 102, Tamil Nadu

Application Form

Name of the Technology :

Medium of Instruction (option) :

(*Tamil/English/Hindi/Malayalam*)

Name of the Applicant/Sponsor :

Occupation :

Educational qualification :

Address for the Correspondence :

(Including mobile No. and E - 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:

Please send the duly filled application copy to **director.nrcb@icar.gov.in/** with a copy to **itmu.nrcb@icar.gov.in / hoa.nrcb@icar.gov.in**.

For further details please contact the undersigned

The Director
ICAR - National Research Centre for Banana
(Indian Council of Agricultural Research)
Thayanur (P.O.), Thogamalai Road,
Tiruchirapalli - 620 102,Tamil Nadu.