

CIRCULAR

Sub: Annual Plan 2019-20 – Scheme on “Modernization of Departmental Laboratories” 2019-20
Strengthening of Bio Control Laboratory – Working Instruction issued – reg.

- Ref: 1) GO.(Rt) No.911/17/AD Thiruvananthapuram dated 23.09.2017
2) GO.(Rt) No.951/17/AD Thiruvananthapuram dated 06.10.2017
3) Order No.TP(2)7461/2018 dated 04.05.2018
4) G.O(Rt)No624/18/Agri dtd27-06-2018
5) Order No TP(2)12932/2019 dtd10-04-2019

Administrative Sanction has been received for the scheme “Modernisation of Departmental Laboratories” 2019-20 under which Strengthening of Bio Control Laboratory, Mannuthy is one of the components and an amount of Rs.125 lakhs is set apart under the Head of account: 2401-00-105-86 Plan.

The detailed working instruction with components and split up amount for each component is given below.

A) State Bio control Lab, Mannuthy

State Bio Control Laboratory, Mannuthy was established utilising the grant-in-aid fund of Government of India sanctioned in the 8th and 9th plan with the intention to serve as nucleus/ central facility for the mass culturing of various bio control agents. The use of Bio control agents for pest control is inevitable for eco-friendly pest management. State Bio control Laboratory started functioning since 2000 is one of the pioneer institution in the state under Government sector engaged in the commercial production of bio control agents such as *Pseudomonas fluorescence*, *Trichoderma viride*, Trichocards, *Beauveria*, *Verticillium* & chitin enriched *Pseudomonas fluorescence* etc. in liquid & talc formulations. Recently they have started the mass production of new BCAs like Entomo Pathogenic Nematode (EPN), *Pochonia*, *Chlamydozoria*, *Bacillus thuringiensis* & liquid formulation for *Beauveria bassiana*

The production target of SBCL, Mannuthy for 2018-19 will be as follows.

Sl.No	Name of bio control agent	Production target
1	Pseudomonas (talc formulation)	50 MT
2	Pseudomonas (Liquid formulation)	35,000 litres
3	Chitin enriched pseudomonas	25 MT
4	<i>Bacillus thuringiensis</i>	500 litres
5	Trichocards	30,000 cc
6	Beauveria (liquid formulation)	500 litres
7	<i>Pochonia</i>	1000 KG
8	Entomo Pathagenic Nematode (EPN)	100 KG
9	Trichoderma	72 MT
10	<i>Verticillium lecanii</i>	1000 Kg

An amount of Rs.125 lakhs (Rupees one crore twenty five lakhs only) is set apart under the head of account 2401-00-105-86 Plan for strengthening of State Bio control Lab, Mannuthy to undertake the following components. The purchase of different components envisaged in the scheme should be as per store purchase rules. Tender/ E-tender formalities will be followed wherever necessary.

Abstract of Action plan 2018-19

Sl.No	Item	Amount (Rs.In lakhs)
A	Organic growth materials	2.50
B	Raw materials, Chemicals & glass ware	20.00
C	Polythene covers, Plastic basins	5.0
D	Packing and labelling expenses	15.00
E	Miscellaneous and recurring expenses	47.50
F	Electrical & electronic items	5.00
G	Servicing of equipment & machineries	9.00
H	Machinery	15.00
	TOTAL LAB PRODUCTION EXPENSES(PLAN	119.00
	Civil works	6.00
	TOTAL	125,00,000

The details of items to be included under each category is given in Annexure I

The expenditure on the scheme implementation shall be debated under the H/A-2401-00-105-86 plan. All rules, formalities and procedures must be strictly followed. The norms of financial propriety should be followed in toto.

Monitoring

The implementation of the scheme in SBCL, Mannuthy will be undertaken by the Deputy Director of Agriculture, SBCL and civil works by the Executive Engineer, Kozhikode. At State level, Additional Director of Agriculture (Planning) will monitor the scheme.

The monthly progress report of the scheme should reach this office on or before 5th of every month. The receipt of this circular should be acknowledged

sd/-
Director of Agriculture

To,
Deputy Director of Agriculture, SBCL
Executive Engineer (Agri), Kozhikode

Copy to,

1. TA to Director of Agriculture
2. CA to all Additional Directors
3. All JDAs at HQ / SFO
4. Finance section
5. Planning section
6. SW Section
5. Stock file/Spare
6. IT Cell for publishing in web site.

ANNEXTURE 1

**DETAILED STATEMENT ON REQUIREMENT OF INPUTS AND OTHER CHARGES
FOR 2019-20**

Sl no	Item/Particulars	Quantity	Approx. Cost / unit In	Total
A ORGANIC GROWTH MATERIALS				
1	Broken Bajra (food grade)	5000 kg	33/kg	1,65,000
2	Groundnut	200 kg	130/ kg	26,000
3	Prawn shell	100 Kg	35/Kg	3,500
4	Organic Growth material for various bio products (Honey, milk powder, wheat powder, maize, rice bran etc)	Pety purchase		55,500
	TOTAL			2,50,000
B RAW MATERIALS ,CHEMICALS& GLASS WARES				
1	Talc powder	170 MT	6000/MT	10,20,000
2	Peptone	650 Kg	500/ Kg	3,25,000
3	Glycerol	650 Lt	150/ Lt	97,500
4	Magnesium sulphate	50Kg	75/Kg	3,750
5	Di potassium hydrogen orthophosphate	50Kg	270 /Kg	13,500
6	Azadiractin	50 Lt.	1980/ Lt	99,000
7	Methanol	25 Lt	150 / lt	3,750
8	Bottle for storing EPN			10,000
9	Absorbent cotton	100 roll	135/ roll	13,500
10	Special chemicals for new products (patented)			90,000
11	Wettable Sulphur	10Kg	150/Kg	1,500
12	Baker's yeast	10 Kg	300/Kg	3,000
13	Test tube	50 nos	50/no	2,500
14	Culture tubes	50 nos	200/no	10,000
15	Conical flasks 500 ml	150 nos	125/no	18,750
16	Measuring Beaker with handle PMP 1 lt	5 nos	1500/no	7,500
17	Measuring Beaker with handle PMP 0.5 Lt	5 nos	1200/no	6,000
18	Measuring cylinder (PMP) 1 Lt	3 nos	3000/no	9,000
19	Measuring cylinder (PMP) 0.5 Lt	3 nos	2200/no	6,600
20	Measuring cylinder (PMP) 0.25 Lt	3 nos	1200/no	3,600
21	Hand sterilant 500 ml	4 nos	1000/no	4,000
22	Tissue culture flask with filtercap (PS)175cm ²	20nos	200/no	4,000
23	Charge for testing talc			10,000
24	Bottle top dispenser 2.5 -25 ml	1 nos		35000
25	Other miscellaneous chemicals, glasswares& materials			202550
	TOTAL			20,00,000
C POLYTHENE COVERS				
1	Printed Polythene covers (Pseudomonas)	750Kg	230/ Kg	1,72,500
2	Printed Polythene covers for Trichoderma	750 Kg	230/ Kg	1,72,500
3	Cover for trichocards	100Kg	120/ Kg	12,000

4	Inner cover	1000 Kg	130/Kg	1,43,000
	TOTAL			5,00,000
D	PACKING /LABELING EXPENSES			
1	Plastic bottle 250 ml for filling liquid Pseudomonas & Beauveria	50,000nos	12/no	6,00,000
2	Printed Carton box for packing various BCA	12,000nos	38/no	4,56,000
3	Plastic bottles for other products	10000 nos	6/no	60,000
4	Printed Carton box small for packing BT	1000 nos	45/no	45,000
5	Label for Bt & Beauveria	10,000	4/no	40,000
6	Outsourcing packing work (at peak demand season)	650 man days	330/day	2,99,000
	TOTAL			15,00,000
E	MISCELLANEOUS AND RECURRING EXPENSES			
1	Nucleus cultures of Tricho cards & microbial cultures.			25,000
2	Corcyra egg	2500cc	Rs 40/cc	1,00,000
3	Gas cylinder	5nos	2000	10,000
4	Wonder tape	400 nos	30/no	12,000
5	Miscellaneous items for card production (Rubberband, Evion, Ambistrin, Jute thread, gum & gem clip etc)	Petty purchase		10,000
6	Inoculation instruments, lab equipments etc.			5,000
7	Gas filling in fire extinguisher			6,000
8	Uniform to labourers cloth and stitching charge, slippers etc.	16 set	Rs.1500/ set	24,000
9	Cost of different types of masks, apron, gloves etc			4,950
10	Lab disinfection and sanitation measures			1,13,000
11	Tube well cleaning			60,000
12	Repair of lab stools, shrink wrappings machine, continuous sealer & sealing machines etc.			40,000
13	Lab cleaning materials & other miscellaneous materials (for cleaning glasswares, basins, utensils etc.)			25,000
14	Cada cloth	1000 Nos	32/ piece	32,000
15	Expenses for exhibitions and seminars/ workshops etc			35,000
16	Training in National Institutes			20,000
17	Incentive to Agro Service Centres		10% of the saleprice	25,000
18	Corcyra waste recycling			60,000
19	Electricity charges			12,00,000
20	Fuel /Diesel for generator			75,000
21	Transportation expenses (including vehicle hire charges [both transportation & taxi hiring for extension/ official purpose] and			4,50,000

	purchase of Diesel and lubricants)			
22	Removal of unserviceable items inside lab building and cleaning in the lab compound			15,000
23	Sealing machines and spares	4 nos		15,000
24	Consultancy for CIB registration , Data generation (toxicology/bioefficacy) for CIB registration & charges payable to NBAIR for Bt etc.			22,87,050
25	Vessels for formulations .			15,000
26	Tube lights, CFL, Fan etc			10,000
27	Incinerator for waste disposal			50,000
27	Unforeseen expenses			26,000
	TOTAL			47,50,000
F	ELECTRICAL & ELECTRONIC ITEMS			
	Split Air Conditioner, weighing balances,etc			5,00,000
	TOTAL			5,00,000
G	SERVICING OF EQUIPMENTS/MACHINERIES			
1	AMC for 7 fermentors (100 Lts 5 nos & 200 lts 2 nos)	7 nos		1,50,000
2	AMC of new generator including consumables (Oil, lubricants & Battery etc)	1nos		40,000
3	AMC for A/C (with spare parts) including split A/C 1.5 TR 1.0 TR	9 nos 2 nos	3000/no	36,300
4	Repair of Printer, Computers, software, & hardwares etc .with spares	PC 5 nos & printer 3		15,000
5	Service & repair with spare parts for other machineries & equipments.	Based on necessity		1.46,000
6	HT day today operation and maintenance with minor spare parts with service of an electrician	1 Year contract		4,00,000
7	Purchase of the capacitors, drill , consumables etc. of high tension electrification			1,12,700
	TOTAL			9,00,000
H	MACHINERY			
1	Vehicle for transporting with buy back of old one	1 no		8,50,000
2	Vacuum cleaners.	2 nos		75,000
3	Vacuum pump with silicon/vacuum tube and Water trap	1 no		35,000*
4	Continuous labelling machine	1nos		1,50,000
5	Humidifiers with buy back of old one	2 no		1,00,000
6	Electric Bike	1no		50,000

7	Hydraulic jack with suitable pallets and Ramp	1 no		50,000
8	Water softener	1 no		65,000
9	Humidity controlled oven with buy-back of old one	1 nos		1,25,000
TOTAL				15,00,000

I. CIVIL WORKS

CIVIL WORKS				
1	Renovation of labourer resting rooms, lab rooms & training rooms including tile flooring providing racks in various rooms & providing cool film pasted glass windows in Corcyra rooms, wash basin in EPN room, aluminium fabrication in EPN room etc	1200 sq ft		6,00,000
TOTAL				6,00,000

Grand Total Plan Allocation (A+B+C+D+E+F+G+H+I) - Rs. 1,25,00,000/-

Sd/-

Director of Agriculture

CAO
01/6/18

S. SWARNIPTI
Plant Protection Officer
Agriculture Development and
Farmers Welfare Directorate
Vikas Bhavan, Tvpn-33