

M/s Vishal

Manpower & Security Consultants

#6, Kamala Towers, Near Urva market

Ashok Nagar P.O, Mangalore – 575 006

Sub: Job Contract Work in Farm & Lab – Crop-Protection Division at CPCRI, Kasaragod – reg.

Ref: 1. This office work order of even no. dated 02.07.2018 & 06.07.2019.

2. Your bid 40(2)/36/2018-Estate (Crop-Prot) dated 14.05.2018

Sir,

In continuation of this office work orders (1) cited above, duly accepting the terms & condition appended in the tender document (Sl.No.19 & 25). order is hereby placed for further extending the **Job Contract Work in Farm & Lab – Crop Protection Division (Item No.1, 2 & 3)** of this Institute on contract basis for the period from 01.09.2019 to 30.09.2019 (01 month) as detailed below:

Sl. No.	Description of work	Qualification	Approx Qty.	Rate (Rs.)	Amount (Rs.)
1.	<p>Item.No.1 Production of <i>Trichoderma</i> formulations (Pathology)</p> <ul style="list-style-type: none"> • Assistance in carrying out molecular techniques like PCR, purification of DNA, amplified product, preparation of buffers etc.(weekly 50 samples) • Maintenance of <i>Trichoderma</i> nucleus cultures in the lab and sub-culturing regularly (once in 15 days). • Mass culturing of <i>Trichoderma</i> spp. for preparation of <i>Trichoderma</i> formulations viz. <i>Trichoderma</i> talc and <i>Trichoderma</i> coir pith cake.(100 litres of Trichoderma liquid culture per week) • Packing the talc powder in 2 kg capacity heat resistant polythene bags and sealing the bags. • Sterilization of the talc powder in autoclave. • Mixing the <i>Trichoderma</i> culture with talc powder. • Shade drying the formulation for 3-5 days. • Packing in polythene bags of required quantity and sealing the bags. (on an average 50 to 100 kg formulation per week based on the requirement) • Packing good quality coir pith in heat resistant polythene bags and sealing the bags. • Sterilization of coir pith • Mixing the <i>Trichoderma</i> culture with coir pith. • Preparing the <i>Trichoderma</i> cake. • Drying the cake in hot air oven. packing and sealing • Powdering and sterilization of Neem Cake. • Mass production <i>Trichoderma</i> using sterilized neem cake substrate. 	BSc or MSc	(Entire Work)	1,56,051.00 (One Year)	13,004.00 (01 month)

2.	<p>Item.No.2 Maintenance & Mu'tiplication of insect cultures including parasitoids (<i>Barcon brevicornis</i> and <i>Goneozus nephantidis</i>) (Entomology)</p> <ul style="list-style-type: none"> • Rearing of <i>Corcyra</i> larvae on broken wheat grains and transferring the larvae in to small test tubes for inoculation - 200 larvae/ day @30 paise/larvae • Transferring emerged parasitoids in to bigger test tubes in aseptic condition and monitor the growth stage of the parasitoids includes: preparation of cotton plug and wax paper strips and fed the insects with honey - 1000-1200 parasitoids daily @ 30 paise per parasitoids . • Autoclaving used culture tubes, cleaning with soap solution drying and sterilizing in the oven - 200 small tubes 20 big tubes (weekly twice) • Field collection of leaf eating caterpillar as and when incidence is reported and laboratory maintenance • Field collection and maintenance of white grub cultures in the lab, cleaning and sterilizing of containers and filling with sterilized soil. • Field collection of red palm weevil and rhinoceros beetles. Laboratory rearing of beetles by frequently providing coconut petioles. • Collection of rhinoceros grubs and maintenance in laboratory • Sterilization of laboratory equipments, preparation of fungal/ bacterial culture media for the multiplication of microbial biocontrol agents. 	BSc or Msc	(Entire Work)	1,96,780.00 (One Year)	16,398.00 (01 month)
3.	<p>Item.No.3 Mass rearing of Greater wax moth, <i>Galleria mellonella</i> and mass production of entomopathogenic nematodes (Nematology)</p> <ul style="list-style-type: none"> • Collection of honey combs and separation of <i>Galleria</i> larvae from bee hives maintaining by farmers at different places of Kasaragod. • Preparation of ingredients (maize, wheat, bran etc..) requirement of artificial diet its cleaning, drying and grinding process of desirable required standard and proper ratio for the multiplication of <i>Galleria</i> larvae. • Preparation of artificial diet of 6 kg regularly at 20 days interval of 20 boxes for rearing different instar <i>Galleria</i> larvae for large scale production of EPN. This process will continue for throughout year. • Collection of pupa and separation of adult moth of <i>Galleria</i> and placing in separate cages regularly at 15 days interval for hatching of eggs it is regular work to maintain required number larvae. • Collection of eggs and keeping for larval hatching it is continuous process to avoid loss of culture. • Assisting in selection and counting of fully grown <i>Galleria</i> larvae for EPN inoculation— collection EPN infested <i>Galleria</i> cadavers and its drying for 2 days, preparation of white trap chamber for placing cadavers to harvest the infective juveniles at 24 hours interval for regularly. 	BSc or Msc	(Entire Work)	1,96,780.00 (One Year)	16,398.00 (01 month)

<ul style="list-style-type: none"> Assisting in maintenance of hygiene in proper washing of all the devises using in multiplication of EPN at regular interval to avoid contamination Preparation of EPN storage process and assisting in packing, storing and transportation of stored EPN vials/pouches to experiments filed on root grub management in YLD affected and non YLD plots at Karnataka and Kerala. Assisting in routine work of collection of soil samples and EPNs infected insect cadavers from trial plots and during survey work in different agro-climatic conditions of India for geo-mapping of EPN diversity. 				
Total(Rs.)				45,800.00

(Rupees forty five thousand eight hundred only)

Payment for service contract will be made on satisfactory completion of work and submission of pre-receipted bill along with GST payment receipt if applicable. (If Nil return the receipt for the same from the concerned authority should enclose).

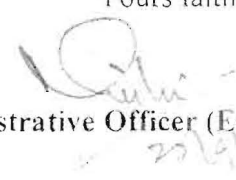
The Invoice should contain, invoice number, address of the firm / contractor, details of all taxes including GST, GSTIN, UID etc (both firm and ICAR-CPCRI, Kasaragod), PAN and Bank details, service description, service charge etc should be indicated separately.

Remittance of the final bill based on the full settlement of all the dues if any to Government / Institute.

Note: In addition to these, all Terms & Condition mentioned in Tender Schedule are relevant for this work.

Please acknowledge receipt of the work order and commence the work immediately.

Yours faithfully,


Asst. Administrative Officer (Estate)

Copy to:

1. The HD, Crop Protection Division, CPCRI, Kasaragod
2. The Chairman Contractual Service Committee, CPCRI, Kasaragod.
3. The Scientist / Technical Officer, Crop Protection Division, CPCRI, Kasaragod.
4. The Sr. Fin. & Accounts Officer CPCRI, Kasaragod.
5. The DDO, CPCRI, Kasaragod.
6. The Asst. Labour Commissioner (Central), Office of the Regional Labour Commissioner, Kendriya Shram Sadan, Olimugal, By Pass Road, Kakkannad, Kochi-682 03
7. Website.
8. Guard file.