



भाकृअनुप - केन्द्रीय रोपण फसल अनुसंधान संस्थान
कुडलु, कासरगोड - 671124 केरल, भारत
ICAR- CENTRAL PLANTATION CROPS RESEARCH INSTITUTE
KUDLU, KASARAGOD - 671 124 KERALA, INDIA
(An ISO 9001: 2015 Certified Institute)



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F.No. 1(1)/2020/E-Tender Instt./Estate

Date: : 07.01.2021

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 – at CPCRI, Kasaragod – reg.

Ref: (1) Proceedings of the Committee dated 28.12.2020

(2) Tender ID 2019_DARE_491030_1, 2019_DARE_491101_1,
2019_DARE_491054_1, 2019_DARE_491015_1, 2019_DARE_491076_1 &
2019_DARE_490566_1 dated 31.07.2019

(3) Your online bids dated 03.09.2019

(4) Shri. Ramesh Naik, Contractor online bids dated 04.09.2019

Sir,

With reference to the proceedings and quotations (Sl.No.3 & 4) cited above, duly accepting the terms & condition appended in the tender documents and the meeting held on 28.12.2020, order is hereby placed for executing the Job Contract Work in Farm & Lab of this Institute on Job contract basis for the period from **08.01.2021 to 31.03.2021 / till the court order for resumption of work, or whichever is earlier** as detailed below.

CROP PRODUCTION DIVISION

Item. No.	Description of work	Approx Qty.	Rate (Rs.)	Amount (Rs.)
			Including GST @ 18%	
5	Hill block- organic Farming	1.4 ha	2,81,071.28 (One Year)	70,267.82 (03 Months)
	(a) Maintenance of plot, Planting of component crops which includes, bed preparation/pit opening and planting, input/fertilizer application, nut study. Work has to be carried out for 365 days.			
	(b) Lying of drip line, maintenance for drip irrigation. (* exact date of lying and maintenance is based on onset and cessation of monsoon).			

9	Assisting in collection & processing of soil sample, composts made using different methods, other samples, etc., their drying, grinding & sieving, preparation of analytical / other reagents, different chemical media (Liquid & Solid), chemical solution, water blanks, their sterilization, pouring of sterilized media in tubes & plates, transfer of micro-bial cultures to slants for their sub-culturing, titration of digested / incubated samples, micro-bial inoculation onto plates, spread and pour plating for population studies, preparation and inoculation of specified media for MPN method, preparation of single and double distilled water, decontamination and disposal of inoculated media, treatment of decontaminated glasswares, their washing with water and drying and stacking, acid washing of selected glass wares for biochemical studies, swabbing of work bench tops on daily basis to maintain sterility, sterilization and packing of carrier material for bionoculant formulation, preparation and sterilization of liquid medium for bioinoculant mass-multiplication, sealing of formulation packets and their storage/transportation to ATIC for sale.	More than 400 soil and other sample for processing, 20-30 l media / reagents weekly, sub-culturing of 1200 cultures, Two sterilization runs daily in autoclave for sterilization and de-sterilization, Decontamination of 500 nos. of glasswares weekly, disposal of spent media. 20 litre distilled water daily, More than 200 kg of talc / carrier material packing and sterilization for bioinoculant formulation. Final packing and sealing of Kera Probio, kalpa soil care and Kalpa organic gold.	4,70,112.00 (One Year)	1,17,528.00 (03 Months)
12	<p><u>Assisting the scientist in the following works:</u></p> <ul style="list-style-type: none"> • Processing soil samples (grinding, sieving) • Preparation of required reagents for analysis • Extraction and analysis of soil samples for pH, EC, organic carbon, Total N and Av.P, K & S, analysis of Ca, Mg, Fe, Mn, Cu, Zn and B using AAS. • Data tabulation of analysed samples in the computer. • Processing of leaf samples (cutting, grinding) and wet digestion of leaf samples. • Analysis of leaf samples for N, P, K, & S, analysis of Ca, Mg, Fe, Mn, Cu, Zn and B using AAS. • Data tabulation of analysed samples in the computer. <p>Note: Persons involved in this work should have experience in the chemical laboratory work and basic computer work.</p>	4,000 samples	7,78,800.00 (One Year)	1,94,700.00 (03 Months)
17	<p><u>Maintenance of garden in the CPCRI premises (Main campus, Sagar, Kalpaka and Chandragiri guest houses premises which includes)</u></p> <p>1. Day to day maintenance and keep up of the garden at the CPCRI premises</p>	Entire Work	6,30,643.92 (One Year)	1,57,660.98 (03 Months)

	<p>including lawn in the campus (removing the weeds, watering and applying the fertilizers, pesticides etc. to the plants)</p> <ol style="list-style-type: none"> Periodical moving the lawn with lawn mover – area 2500 sqm (approx.) Flower pots approximate 750 nos, cleaning watering and applying the fertilizer /pesticide etc De potting of flower pots and planting of flower plants as per the instructions (500 nos) Arranging and display of ornamental plants at office premises/ conference hall as and when required. Trimming of border plants periodically cutting, levelling, watering, applying fertilizers/ pesticides etc. (500 nos) Trimming of hedge plants like <i>phyllanthus</i>, <i>Durenta</i>, <i>Acalypha</i> (600 nos) Maintenance of garden type VI quarter (Director of CPCRI), including weeding, cleaning, watering etc. <p>NB: The work should be undertaken by gardener possessing at least two year's experience in the field of garden works.</p>		
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CROP IMPROVEMENT DIVISION

Item No.	Description of work	Approx Qty.	Rate (Rs.)	Amount (Rs.)
			Including GST @ 18%	
17	<p>Cleaning of glasswares</p> <ol style="list-style-type: none"> Removal of media from culture tubes conical flasks, Petri dishes, culture bottles Soaking of culture tubes, conical flasks, Petri dishes, culture bottles in detergent solution (overnight) followed by brushing and cleaning. Drying of glass wares in hot air oven <p>Note: 1000 test tubes 100 conical flasks 1000 Petri dishes 25 measuring cylinders 100 reagent bottle 100 small vials</p>	Entire Work	3,51,621.12 (One Year)	87,905.28 (03 Months)
18	<p>Item No.2(Biotechnology)</p> <p>Lab work (MSc.) for coconut tissue culture</p> <p>Preparation of stock solution of macro, micro elements, iron EDTA & Vitamins for MS , Y3 & other media for coconut.</p> <p>Preparation of hormone stock solution for Ms & Y3 media for coconut.</p> <p>Preparation of different media formulation &</p>	<p>17 Ltrs</p> <p>01</p> <p>30</p>	2,19,918.96 (One Year)	54,979.74 (03 Months)

pouring into culture tubes / Petri dishes / conical flasks for tissue culture			
Preparation of inflorescence explants for culture initiation.	05		
Scooping of endosperm plug with embryo from coconut.	600		
Surface sterilization of endosperm plug, embryo & inflorescence	600		
Excision & inoculation of plumule from coconut embryo into different media combinations	400		
Inoculation of embryo or inflorescence into different media combination.	300		
Sub-culturing of cultures initiated from plumule, embryo or inflorescence into fresh media at 20 to 30 days interval. Documentation of culture details initiated at different periods.	800		
Cryopreservation studies of embryo and pollen	50		
Preparation of buffer/reagent solutions for molecular studies, Grinding of samples & extraction of DNA/RNA for clonal fidelity studies, Documentation of result & scoring of bands.	100		

CROP PROTECTION DIVISION

Item No.	Description of work	Approx Qty.	Rate (Rs.)	Amount (Rs.)
			Including GST @ 18%	
1.	Production of <i>Trichoderma</i> formulations (Pathology) 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 <i>Trichoderma</i> liquid culture per week) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> Packing good quality coir pith in heat resistant polythene bags and sealing the bags. 	(Entire Work)	2,47,998.00 (One Year)	61,999.50 (03 Months)

	<ul style="list-style-type: none"> • 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 sealilng. <p>Powdering and sterilization of Neem Cake.</p> <ul style="list-style-type: none"> • Mass production <i>Trichoderma</i> using sterilized neem cake substrate. • Qualification: BSc or MSc 			
2	<p>Maintenance & Multiplication 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 asceptic 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. • Qualification: BSc or MSc 	(Entire Work)	2,47,998.00 (One Year)	61,999.50 (03 Months)
3	<p>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 	(Entire Work)	2,47,998.00 (One Year)	61,999.50 (03 Months)

	<p>Galleria larvae.</p> <ul style="list-style-type: none"> • Preparation of artificial diet of 6 kg regularly at 20 days interval of 20 boxes for rearing different instar Galleria larvae for large scale production of EPN. This process will continue for throughout , year. • Collection of pupa and separation of adult moth of Galleria 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 Galleria larvae for EPN inoculation , collection EPN infested Galleria 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. • 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 geomapping of EPN diversity. <p>• Qualification: BSc. or MSc.</p>			
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PB & PHT DIVISION

Item No.	Description of work	Qualification	Rate (Rs.)	Amount (Rs.)
			Including GST @ 18%	
1	<p>Regular operation of SCADA in Open Top Chambers</p> <p>2) Assisting in measurement of water potential, photosynthetic parameters, chlorophyll fluorescence of coconut & cocoa seedlings</p> <p>3) Daily measurement of soil moisture using soil moisture probe to maintain plants at defined stress level</p> <p>4) Assisting in estimation of shoot, root and total biomass in coconut seedlings under different moisture regime</p>	B.Sc. Agriculture/Bot any/ Zoology/ Life Science.	2,47,998.00 (One Year)	61,999.50 (03 Months)
2	<p>Pheno - typing for water-deficit and salt stress in coconut and arecanut:</p> <p>1) Filling-up of plastic buckets with soil, nutrient mixtures</p> <p>2) Fertilization application on regular basis</p> <p>3) Assisting in measurement of growth and physiological parameters</p>	Entire work	2,26,560.00 (One Year)	56,640.00 (03 Months)

3	Assisting in biochemical analysis coconut and cocoa leaf samples at regular intervals (Approx. 100 samples each time). 1) Total phenol estimation, total and reducing sugars, MDA content, leaf chlorophyll content, Epicuticular wax content 2) Total soluble proteins along with protein profile under Poly-acrylamide gel electrophoresis (SDS-PAGE) and 2D gel electrophoresis 3) Antioxidant enzymes assay (SOD, Peroxidase, polyphenol oxidase, ascorbate peroxidase, carbonic anhydrase). 4) Isozyme profile for SOD, peroxidase enzymes with Native PAGE 5) Pollen collection and germination studies 6) Assisting in Total DNA/RNA extraction from coconut leaves, cDNA preparation, qRT-PCR analysis	M.Sc. Biochemistry/ Botany/ Life Sciences	2,47,998.00 (One Year)	61,999.50 (03 Months)
4	Assisting in analysis of nutritional and biochemical constituents in coconut and arecanut (Approximately 100 samples each time) 1) Analysis of coconut endosperm, testa, neera, etc. for various nutritional constituents like carbohydrates, lipids, proteins, etc. 2) Total phenolics, flavonoids and antioxidant potential in various parts of coconut and arecanut. 3) Proximate analysis of the unit operation based processed products of coconut like coconut milk, VCO, and other value added products	M.Sc. Biochemistry/F ST/ Botany/Zoology / Life Science	2,47,998.00 (One Year)	61,999.50 (03 Months)
5	Assisting in agro-processing activities 1) Helping in technology transfer of VCO, chips, coconut sugar etc. 2) Helping in demonstrating coconut de-husking operations 3) Helping in demonstrating coconut de shelling operations 4) Helping in demonstrating coconut testa removing operations 5) Helping in demonstrating coconut milk extraction using different machines(Hydraulic & Mechanical screw presses) 6) Helping in production of VCO, chips, and coconut sugar for exhibition, and sale purposes. This involves de-shelling, testa removing, pulverizing, milk extraction, milk cooking, fermentation, oil filtration, and packaging. 7) Helping in sample preparations during coconut based product development studies 8) Facilitating visitors and guests	Entire work	2,26,560.00 (One Year)	56,640.00 (03 Months)
6	Assisting in ice-cream unit 1) Assisting in work related to the production of ice cream 2) Processing of mature and tender nuts, cleaning the machineries etc. 3) Washing the floor area, vessels and utensils 4) Maintenance of production register		1,82,891.00 (One Year)	45,722.75 (03 Months)

	Note: Unskilled			
7	Cleaning of glass wares, buckets & other utensils 2) Drying in oven and staking in proper place (approx. 250 nos./day) in Biochemistry lab 3) Grinding samples for biochemical analysis 4) Irrigation of pots and cleaning of machineries in APC Note: Unskilled	Diploma in Electronics	1,82,891.00 (One Year)	45,722.75 (03 Months)

SOCIAL SCIENCE DIVISION

Item No	Description of work	Rate(Rs.)	Amount (Rs.)
		including GST @ 18% (Rs.)	
2	Carry out service works & maintenance and of statistics lab and Videoconferencing facility and for assisting in field surveys and data entry	2,15,813.00 (One Year)	53,953.25 (03 Months)
Grand Total (Rs.)		52,54,870.28	13,13,717.57

(Rupees Thirteen Lakh Thirteen Thousand Seven Hundred Seventeen and Paise Fifty Seven only)

Terms & Conditions

1. The works should be carried out under the supervision of Scientists/Technical Officers of the respective divisions, CPCRI, Kasaragod.
2. The Institute will not be responsible for the loss or damage/casualty, if any, while executing the work.
3. Any loss or damage etc. caused to the Institute properties while carrying out the works should be made good else necessary action will be initiated to recover the same.
4. The Contractor should obtain certificate of registration under contract labour (Regulation & Abolition) Act 1970, from the Regional Labour Commission (Central) Kochi and comply with all the provision of Act.
5. The contractor/Agency shall be at the responsibility to comply with the requirements under the Labour Act/EPF Act/ESI Act/minimum wages Act etc. towards the personnel engaged for executing the contract work of this Institute.
6. **Payment for service contract will be made monthly on satisfactory completion of work. Details of actual work period along with Division & Division wise Item number should be mentioned in the work bill.**
7. **Pre-receipted bill, GST payment receipt & wage slips are mandatory for processing the bill. The wages slip should indicate complete details of Minimum wages, ESI, EPF & etc., given to the employee and a signed copy of the same should be submitted along with bill, without which the bill will not be entertained for payment.**
8. The Director of the Institute will be at liberty to forfeit the Performance security amount in full or part thereof in the event of unsuccessful completion of the awarded work.
9. The Director of the Institute reserves the right to terminate the contract at any time in the interest of the Institute.
10. The person so provided by the contractor under this contract will not be the employee of the CPCRI and there will be no Employer-employee relationship between the CPCRI and the person so engaged by the contractor in the aforesaid services.
11. The person provided should maintain discipline in the premises of the Institute. Any misconduct/misbehavior on the part of the person provided by the contractor will not be tolerated and he/she will have to be replaced immediately.
12. Income Tax will be deducted from the payments due for the work done as per rules.
13. **Performance security equivalent to the amount of 03% of the contract value i.e. Rs. 39,412/- (Rupees Thirty Nine Thousand Four Hundred and Twelve only) may be furnished in the form of an A/C payee DD/FD or Bank Guarantee from the commercial bank in an acceptable form. Performance security will be released after 60 days from the liability period beyond date of**



completion of all statutory and contractual obligations, provided that the contractor has attended to all the complaints within the liability period. Bid security will be refunded immediately on receipt of performance security. The dues if any, not settled by the agency will be recovered from the security deposit.

14. An agreement in a stamp paper value of **Rs.100/-** should be executed based on which the first payment will be made. GST or any other Tax applicable or made applicable as per the latest notification of Govt. of India after awarding the contract in respect of this contract shall be payable by the contractor and this Institute will not entertain any claim whatsoever in this respect. However the Service taxes or any other tax which is as per the rules of the Govt. shall be deducted at source from bills, as per rules / instructions made applicable from time-to-time by Govt.
15. **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. NO BILL WILL BE ENTERTAINED WITHOUT DETAILS OF GST REMITTANCE, ALLOWANCES, ESI & EPF, MUSTER ROLL/ATTENDANCE, WAGES SLIP FOR THE PARTICULAR WORK PERIOD FOR PAYMENT.**
16. Any compensation paid to the worker or parties hired through Contractor, shall be recovered from the Contractor as per the guidelines issued by ICAR vide O.M No. Admn-22(6)/2018-Estt.III dated 31.07.2018.
17. **The Contractor should display a board in the work place containing, Address of the Firm / Contractor, GSTIN (both Firm and ICAR-CPCRI, Kasaragod), No. of Workers, Minimum Wages, etc.**
18. The Contractor/agency will be responsible for contribution towards the ESI / EPF & statutory allowances etc.
19. Remittance of the final bill based on the full settlement of all the dues, if any, to Government / Institute.
20. Bad workmanship shall be rejected summarily.
21. Director, ICAR-CPCRI, Kasargod reserves the right to reduce or terminate the period of contract or to extend its duration in the interest of the Institute, for any justifiable reasons, not mandatory to be communicated to the tenderer.

Note: In addition to these, all Terms & Condition mentioned in Tender Schedule/ mutual agreement of the meeting held on 28.12.2020 are relevant for this works.

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

Yours faithfully,


Asst. Administrative Officer (Estate)

Copy to:

1. The AHD of all Divisions, and Chairman Contractual Service Committee, CPCRI, Kasaragod.
2. The Scientists of all Divisions, CPCRI, Kasaragod
3. The Technical Officer of all Divisions, 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, Kakkanad, Kochi-682 03
7. Website.
8. Guard file.