



भाकृअनुप - केन्द्रीय रोपण फसल अनुसंधान संस्थान
कासरगोड, केरल - 671 124 भारत
ICAR - Central Plantation Crops Research Institute
Kasaragod - 671 124, Kerala, India
(An ISO 9001:2008 Certified Institution)



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No.40(2)36-2016-Estate XV II(Part III)

Dated: 22.8.2017

Shri Manoharan B
Ashok Nivas
Ballier, Post Kudlu
Kasaragod 6761 124.

Sub: Contractual work at CPCRI, Kasaragod – regarding.

Ref: This office work order of even number dated 23.9.2016, 10.11.2016; 26.12.2016, 06.01.2017,
14.02.2017, 13.4.2017 & 29.04.2017.

Sir,

In continuation this office work order cited above, approval of the Competent Authority is hereby conveyed to extend the following farm/lab. works for a **June & July, 2017 only**, on the same rate terms and conditions. Further extension of work can be undertaken only after receipt of work order from this end.

Item No	Description of work	Approximate Quantity	Rate (Rs.)	Amount (Rs.)
7	Maintenance of Dwarf palms in pachakkad plot which includes the following works	3.5 acre and approximately 244 palms Entire Work	1,68,000/- for entire work (rate quoted for nine months)	37,334.00
	Timely machine weeding at least three or four rounds as directed.			
	Uprooting sataria grass with clump and disposing away from the plot as directed			
	Incorporation of organic manure/ chemical fertilizer etc.. during August/September (Manures and fertilizers will be provided departmentally)			
	Weeding in the trench/half moon bund and strengthening of the bund with pineapple gap filling, including fertilizer application for pineapple suckers.			
	Herbicide spraying during August and October If required & as directed.			
	Collection of shed nuts if any &. Scrapping weeds in basin and mulching of basins with the fallen leaves/husk/leaf shreds			
	Maintenance of Drip irrigation system in Pachakkad, laying of lateral pipes and putting micro pipes 30cm depth and 1M away from the bole, laterals should be buried 20cm depth. Regular checking the motor, flushing the filter/pumps/micro tubes. Providing fertilizer through drip system once in a month. Removing and tying drip irrigation pipes during onset of monsoon.(Drip irrigation from November 2016 to May 2017).			
	Removal of dead seedlings/palms as and when required and replanting/gap filling including shading.			
	Hose irrigation to Pineapple suckers as and when required and directed.			
	Crown cleaning and Prophylactic treatment with leaf axil filling of insecticide/fungicide(two or three rounds as directed) and required need based protection measures (spraying/axil filling) as directed.			
16	Washing glass wares including removal of media from the tubes, soaking in soap solution overnight and washing	10,000 test tubes 1000 conical flasks 2000 petri dishes 200 measuring cylinders 700 reagent bottles 100 small vials	Entire work 1,16,800/-	33,372.00
	Cotton plug preparation	6000 plugs		

	Autoclaving	600 L of media, 200 L of buffer solution, 10 Kg potting mixture, 5500 eppendoff tubes, PCR tips 750 L of sterile water		
17	Culture media preparation for coconut and arecanut tissue culture	2000 litre	98,000/- for entire work	28,000.00
	Stock preparation for media for coconut and arecanut tissue culture	100 litre		
	Hormone stock preparation for coconut and arecanut tissue culture	10 litre		
	Preparation of samples for sterile culture initiation	10,000		
	Inoculation of sample to initial media for coconut and arecanut tissue culture	10,000 samples		
	Sub-culturing of sample to another media for coconut and arecanut tissue culture	20,000 samples		
	Pouring media into tubes /conical flasks	20,000		
	Sealing and storage of media in appropriate places.	20,000		
	Culture media preparation for coconut and arecanut tissue culture	2000 litre		
	Stock preparation for media for coconut and arecanut tissue culture	100 litre		
18	Preparation of buffers/reagent	100 liters	98,000/- for entire work	28,000.00
	Grinding of samples and extraction of DNA/RNA	1000		
	Preparing agarose gels for checking DNA/RNA quality	100		
	Preparation of PCR reaction mix and running PCR in thermocycler	5000		
	Operating AUTOMATED ELECTROPHORESIS UNIT and REAL TIME PCR THERMOCYCLER	100		
	Documentation of results and scoring of bands	5000		
	Preparation of buffers/reagent	100 liters		
	Grinding of samples and extraction of DNA/RNA	1000		
24	Maintenance of garden in the CPCRI premises (Main campus, Sagar, Kaipaka and Chandragiri guest house premises which includes		Rate quoted for entire work 2,66,250/-	76,072.00
Day to day maintenance and keep up of the garden at CPCRI premises including lawn in the campus (removing the weeds, watering and applying the fertilizers, pesticides etc. to the plants)				
Periodical mowing the lawn with lawn mower	2550 sqm area			
Flower pots cleaning watering and applying the fertilizer /pesticide etc	750 nos,			
Re 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>Duranta</i> , <i>Acalypha</i>	600 nos			
Maintenance of garden in type VI quarter (Director of CPCRI), including weeding, cleaning, watering etc.				
NB: The work should be undertaken by gardener possessing at least two year's experience in the field of garden works) Putting shredded husks in the bases of seedlings.				
26	Providing man power for different type of farm operation work like digging pits, opening trenches, cleaning the plot by removing fallen leaves, spathes, debris, transporting and powdering using Bioshredder machines, mulching the shredder materials on the coconut basins, collecting shed nuts, counting and transporting to godown, Taking preparatory measures for ploughing plots, shifting tables/ almirah from offices whenever required and other works as per the directions of Farm in charge/Technical staffs .	25 working days/ month x 3 persons/ days 75 man days	576/- per day	86,400.00
28	Cleaning of all office which includes cleaning all the bath rooms and		Rate	

	toilets of office building, sweeping, moping rooms and verandas, cleaning of guest houses hostel (as and when required), cleaning cob webs, sweeping cleaning office premises and any other works assigned by the farm in charge. The cleaning of the office rooms should be completed before 9.30 am every working days. Note: Before quoting the rates the contractor may contract the farm officials.	7000sqm For entire works (25 working days/ month)	quoted for entire work per month 40,990/-	81,980.00
31	Plumbing work: <ul style="list-style-type: none"> Repairs to the drinking water supply lines of all residential/ non residential quarters(Internal and external) Repairs/replacement to the irrigation water supply lines inside field and within the campus, accessories in connection with water pumps Repair/ replacement/ renewal and reinstating of pipes/accessories in connection with bore well repair and submersible pumps, removing refitting and repairing accessories like water taps, Angle cock, stop cock, shower, gate valve, health faucets, connector pipes, jail, waste coupling etc. Replacement of damaged closet, (Indian western type), Wash basin in coordination with institute mason, modification to pipe lines(water supply and drain pipes/cast iron pipes) Repairs to the overhead water tank gauges, float-valve, bibcock, PVC tanks, changing of washers, tightening gland rope of water pump, checking/testing water supply lines Removing and rectifying the blockage of kitchen/ lab sinks wash basins, up to gully trap/ nearest inspection chamber Any other works as instructed by SIC/TO (FARM), T.O.(Maiaint.) in connection with water supply/plumbing The material required for attending the complaints shall be arranged by the Institute. One log book has to be maintained on day to basis, which shall be verified by TO/CTO/ACTO on daily basis as proof of attending the complaints. <p>1. The complaints of repair/non-----has to be attended immediately. 2. The contractor has to take full responsibility of operation, repair and maintenance of the water supply/irrigation.</p>	129 residential quarters, all non residential buildings and irrigation area within 77.9 hectares. Working days for attending the daily complaints = 24 Days/Job in a month (The work is to be undertaken between 8.30 am to 5.00 pm) but may extend to any time in emergency situations. ----- -----	Rate quoted for entire work per month 16,300/- p.m.	32,600.00
32	Tender nut experiment			
	Inflorescence tagging and harvesting of tender nut/mature nut	124 palms per month in a staggered manner	87,500/- (rate quoted for nine months)	19,444.00
	Basin opening, mulching	Twice in a year		
	Laying of drip lines and checking the lines for drip irrigation (*exact date of laying and maintenance is based on onset and cessation of monsoon) and fertigation	Tentatively * Dec- May 2017		
	Harvested tender nut collection, counting, loading and transportation to farm	Every month		
37	Hill block- organic faming Maintenance of plot, Planting of component crops which includes, bed preparation/pit opening and planting, input/fertilizer application, irrigation by drip, Tender nut harvesting for quality study (3 times X 35 palms), nut study	1.4 ha	Rate quoted for nine months 1,56,000/-	34,666.00
50	Maintenance & Multiplication of Parasitoids, biocontrol agents, etc. (Entomology) <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 	Entire work	Rate quoted for entire work 92,000/-	26,286.00

	<p>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.</p> <ul style="list-style-type: none"> Autoclaving used culture tubes, cleaning with soap solution drying and sterilizing in the oven - 200 small tubes 20 big tubes (weekly twice) Field collection and maintenance of white grub cultures in the lab, cleaning and sterilizing of containers and filling with sterilized soil. Production & maintenance of <i>Metarhizium</i> culture in the lab. Cleaning and sterilizing of lab equipments. Field collection and rearing of difference life stages of rhinoceros beetles 			
51	<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 <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 culture healthy and fresh . 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. 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. 	Entire work	Rate quoted for entire work 92,000/-	26,286.00
52	<ol style="list-style-type: none"> Autoclaving disease samples and disposing them Autoclaving used culture tubes (with micro-organism culture), cleaning with soap solution, drying and sterilizing in oven. Autoclaving used Petri dishes (with micro-organism culture), cleaning with soap solution, drying and sterilizing in oven. Autoclaving used culture flasks (with micro-organism culture), cleaning with soap solution, drying and sterilizing in oven and regular/general cleaning work of lab. 	Entire work for Pathology, Entomology and Nematology	Rate quoted for entire work 59,600/-	17,028.00
55	Assisting in de-husking, de-shelling, testa removing, pulverizing, milk extraction, milk cooking, fermentation, oil filtration, packaging, coconut sugar and jaggery production, VCO and chips production.	100 coconuts for VCO & 20 coconuts for chips per week	Rate quoted for entire work 97,600/-	27,886.00
59	<p>AKMU</p> <ol style="list-style-type: none"> Maintenance of Cyberoam Cr200i and ZyXEL-ZyWALL 35 UTMs, CISCO Router, Keymile Modem, DIGISOL Ethernet Switches, OFC Converter, Server etc. in the AKMU. Cross-over crimping and Straight-through crimping of 	All the computers and networking in the	Rate quoted for entire work 2,36,000/-	67,428.00

	Cat05/Cat06 UTP cable as per requirement. 3. Operating System and Application programmes reinstallation. 4. Memory problem, which requires cleaning or replacement of memory. 5. Motherboard problem, which normally requires resetting /replacement of the board and CMOS Cell replacement. 6. SMPS replacement. 7. Antivirus installation. 8. Network connectivity problem which requires connectivity checking, crimping or LAN card replacement. 9. Printer driver installation and cartridge cleaning. 10. Multimedia operation.	Institute (160 computers and 100 Printers)		
60	<u>Electronics and Instrumentation</u> <ul style="list-style-type: none"> • Repair and maintenance of offline and online UPSs. (about 130 Nos.), repair and maintenance of battery banks attached to the above UPSs and shifting and reinstallation of UPSs with battery banks. • Repair and maintenance of all instruments in the institute. • Repair and maintenance of 5 all equipments like ovens, incubators, shakers etc. • Repair and maintenance of analog telephones. (about 180 Nos.) • Repair and maintenance of public announcement system and speaker connectivity. • General Maintenance of Lift. • Operation of Public Address Systems in PJ Hall and DJ Halls. 	All the UPSs, telephone units and laboratory instruments	Rate quoted for entire work 1,17,250/-	33,500.00
	TOTAL			6,56,282.00

(Rupees six lakh fifty six thousand and two hundred and eighty two only)

You have to remit Rs.32,814/- (Rupees thirty two thousand eight hundred and fourteen only) being 5% of total charges as Performance Security deposit in FD or DD in favour of ICAR Unit, CPCRI, Kasaragod immediately.

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

Yours faithfully,

Asst. Administrative Officer (Estate)

Copy to:

1. The HD, Crop Production, CPCRI, Kasaragod.
2. The Scientists Technical Officer (Physiology/Genetics/Crop improvement/Farm/Agronomy/Maint./Pathology/Entomology/Nematology/AKMU/Library/Social Science), CPCRI, Kasaragod.
3. The Fin. & Accounts Officer CPCRI, Kasaragod.
4. The DDO, CPCRI, Kasaragod
5. The Asst. Labour Commissioner (Central). Office of the Regional Labour Commissioner, Keñdriya Shram Sadan, Olimugal, By Pass Road, Kakkanad, Kochi-682 030
6. Guard file.
7. Website.