



भा. कृ.अनु.प.- केन्द्रीय रोपण फसल अनुसंधान संस्थान
कासरगोड, केरल - 671124 भारत
ICAR - CENTRAL PLANTATION CROPS RESEARCH INSTITUTE
KASARAGOD 671 124, KERALA, INDIA



Tel.: 04994-232893/94/95 (Off.) / Fax : 04994-232570 / 04994-232322
Email: cao.cpcri@gmail.com / Website: www.cpcri.gov.in

F.No.40(2)/36-2016 - Estate

Dated 20.2.2016.

The Reporter
Karaval Kannada Daily,
Kasaragod – 671 121.

The Reporter
Uthradesam Malayalam Daily,
Kasaragod - 671 121

The Advertisement Manager
Mathrubhumi Printing & Publishing Co. Ltd.
Post Thana
Kannur 670012.

The Advertisement Manager
Manipal Printers & Publishers Ltd
Udayavani Building, Tile Factory
Manipal 576 119.

The Advertisement Manager
Express House, East Hill Road
West Hill, Kozhikode - 673005

Sub: Advertisement of Notice Inviting Tenders for various Farm works at CPCRI, Kasaragod – regarding.

Sir,

Please find enclosed a copy of Advertisement inviting quotations for undertaking various farm works at this Institute on contract basis. Please publish this advertisement limiting it to the minimum space required in your daily immediately but not later than **22.02.2016**. Your **bill** towards the advertisement charges (**in duplicate**) addressed to Director, CPCRI, Kasaragod may please be sent to this office along with two copies of the newspaper, for arranging payment.

It may also ensured that rates charges should be as per DAVP rates failing which no payment shall be made on this accounts.

Yours faithfully,

(Jayarama Naik KM)
Administrative Officer

Copy to:

1. The Scientist-in-charge (Farm), / T.O. (Farm), CPCRI, Kasaragod.
2. The FAO, CPCRI, Kasaragod.
3. Notice Board (Farm/Office).
4. Website
5. ITJ, Kolkatta
6. CPP Portal



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NOTICE INVITING TENDERS

Sealed tenders are invited, from the **Registered/Licensed Agencies** for undertaking **various Farm Operations/Lab./ Housekeeping works** at this Institute for a period of one year commencing from **01.04.2016 to 31.03.2017.** Details can be had from this Institute during office hours on all working days or may be downloaded from the Institute website: www.cpcri.gov.in. Bids may be submitted Work wise/Division wise/item wise.

The sealed tenders alongwith EMD as prescribed against each item in the form of DD in favour of ICAR Unit, CPCRI, Kasaragod for the work should reach this office on or before **17th March 2016 at 3.00 P.M** positively.

DIRECTOR



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Dated 20.2.2016

NOTICE INVITING TENDERS

Director, CENTRAL PLANTATION CROPS RESEARCH INSTITUTE, Kasaragod is inviting sealed tenders in the name of The Director, CPCRI, Kasaragod for 'Farm Operation /Lab. /Housekeeping works from reputed and registered contractors (those possessing approved labour license, shop establishment registration certificate, EPF number etc.). The tenderer has to pay minimum wages wages to the workers as per the norms and approved rates of the Central Government. The tenderer has to mention clearly the service charges, their commission/profit etc. in the tender document. The non transferable tender document containing schedule of farm works and terms & conditions can be obtained from the Director, CPCRI, Kasaragod on payment of non- refundable amount of Rs. 500/- (Rupees five hundred only) payable by DD drawn in favour of ICAR Unit, CPCRI payable at Kasaragod. The tender forms can also be down loaded from CPCRI website www.cpcri.gov.in and the cost (Rs. 500/-) of tender documents should be enclosed with their bids in the form of D.D as above failing which it will be rejected.

The duly completed sealed tenders will be received latest up to 15.00 hrs on **17.03.2016** and tenders (Technical bid) will be opened on the same day at 15.30 hrs in the presence of the tenderers or his authorized nominees. **EMD** as prescribed against each item should be deposited in the form of crossed Demand Draft drawn in favour of ICAR Unit, CPCRI payable at Kasaragod failing which the tender will be rejected. Tenders received after due date and time will not be accepted.

The Director, CPCRI, Kasaragod reserves the right to accept or reject any or all tenders without assigning any reason thereof. No correspondence shall be entertained in this regard.

Administrative Officer



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TENDER FOR FARM/LAB. OPERATIONALWORK- 2016

TENDER ISSUED TO:-

ADMINISTRATIVE OFFICER



भा. कृ.अनु.प.- केन्द्रीय रोपण फसल अनुसंधान संस्थान

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INVITATION TO TENDER AND INSTRUCTIONS CONTAINING TERMS AND CONDITIONS GOVERNING THE JOB WORK ON CONTRACT FOR FARM OPERATION/LAB/HOUSING WORKS AT CENTRAL PLANTATION CROPS RESEACH INSTITUTE, KASARAGOD.

- A) Cost of Tender Form Rs. 500/- (Rupees five hundred only)
- B) Last date of receipt of Tenders in the office of CPCRI, Kasaragod is up to 15.00 hrs ON 17.3.2016.
- C) Tenders (Technical Bids) to be opened at 15.30 hrs. on 17.03.2016.
- D) Tender to remain valid for acceptance up to 90 days from the date of opening
- E) The Tender document is also available at our web site www.cpcri.gov.in and the cost of tender documents should be enclosed with their bids in shape of Demand Draft/Pay Order in favour of 'ICAR Unit, CPCRI' payable at Kasaragod, failing which it will be rejected.

NOTE

1. The Director, Central Plantation Crops Research Institute may at his own discretion, extend this date by a fortnight and such extension shall be binding on Tenderers.
2. If the date up to which the Tender is open for acceptance is declared to be a holiday the Tender shall be deemed to remain open for acceptance till the next working day.



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Email: cao.cpcri@gmail.com / Website: www.cpcri.gov.in

Note: All communications must be addressed to the Director, Central Plantation Cops Research Institute, Kasaragod 671 124

To

Dear Sir(s),

Sealed tenders are hereby invited on behalf of the Director, Central Plantation Crops Research Institute, Kasaragod 671 124 for Farm works at Central Plantation Crops Research Institute, Kasaragod. The terms and conditions of the contract which will govern any contract made are those contained in the General conditions of contract applicable to the contracts and the special terms and conditions are detailed in the tender forms and its schedules. Please submit your rates in the tender form if you are in position to furnish the requisite services in accordance with the requirements stated in the attached schedules.

1. An EMD as prescribed against each items, must be deposited in the form of demand draft/pay order payable to "ICAR Unit, CPCRI payable at Kasaragod. The particulars of the earnest money deposited must also be super scribed on the top of the envelope by indicating the draft/pay order number and date, failing which the tenders will not be opened. The tenders will not be considered if earnest money is not deposited with the tenders.
2. The tenderer is being permitted to give tenders in consideration of the stipulations on his part that after submitting his tender, he will not responsible from his offer or modify the terms and condition thereof. If the tenderer fail to observe and comply with the foregoing stipulation the aforesaid amount of EMD will be forfeited by the Institute. In the event of the offer made by the tenderer not being accepted, the amount of earnest money deposited by the tenderer will be refunded to him after he has applied for the same, in the manner prescribed by the Institute.
3. The Schedules of the tenders form should be returned intact and pages should not be detached and signed all pages by the tenderor or authorized signatory. In the event of the space provided on the schedule form being insufficient for the required purpose, additional pages may be added. Each additional page must be numbered consecutively and be signed in full by the tenderer. In such cases reference to the additional pages must be made in the Tender form. If any modification of the schedule is considered necessary, it should be communicated by means of a separate letter along with the tenders. Overwriting/erasing in rates to be quoted by the tenderer will not be allowed otherwise the tenders may be rejected.
4. The tenders are liable to be ignored if complete information as required is not given therein or if the particular asked for in the schedules to the tenders is not fully filled in. Individual signing the tenders or other documents connected with the contract may specify whether he signs it in the capacity of :-
 - (i) a sole proprietor of the firm or constituted attorney of such sole proprietor, or
 - (ii) a partner of the firm if it be partnership in which case he must have authority to refer to arbitration dispute concerning the business of the partnership whether by virtue of the partnership agreement or power of attorney or
 - (iii) constituted attorney of the firm if it is a company.

5. If tenderer does not accept the offer, after issue of letter of award by Institute within 15 days, the offer made shall be deemed to be withdrawn without any notice & earnest money forfeited.
6. In case of partnership firms, where no authority has been given to any partner to execute the contract/agreement concerning the business of the partnership, the tenders and all other related documents must be signed by every partner of the firm. A person signing the tenders form or any other documents forming part of the contract on behalf of another shall be deemed to warrant that he has authority to bind such other and if, on enquiry it appears that the persons so signing had no authority to bind such other and if, on enquiry it appears that the persons so signing had no authority to do so, the Institute shall without prejudice to other civil and criminal remedies cancel the contract and hold the signatory liable for all costs and damages. Each page of the tenders and the schedules to be tenders and annexure, if any, should be signed by the tenderer.
7. The original copy of the tenders is to be enclosed in double cover. The inner cover should be sealed. The outer cover should be super scribed. "THE CONTRACT FOR FARM OPERATION/LAB/HOUSE KEEPING WORKS at Central Plantation Crops Research Institute, Kasaragod with address of this office and the tenderer shall place two envelopes clearly marked containing 'technical bid' and 'financial bid' separately in the main envelop. All tenders should be sent by Registered Post. Tenders to be hand delivered should be put in the tender box. **The last date for receipt of Tender is 17.03.2016. (15.00 Hrs)**
8. The rates quoted by each firm for job/service contract in tenders be given both in words and figures failing which the same is liable to be rejected. Tenderer is at liberty to be present or to authorize a representative to be present at the time of opening of the tenders. The name and address of the representative who would be attending the opening of the tenders on tenderer's behalf should be indicated in the tenders. Name and address of permanent representative of the tenderer if any may also be indicated.
9. The Institute is not bound to accept the lowest or any other tenders and also reserve to itself the right of accepting the tenders in whole or in part. The Tenderers at liberty to Tender for the whole or any portion or to state in the tenders that the rates quoted shall apply only if the tenders are considered fully. Other conditional Tenders will not be accepted.
10. An amount of 10% of the tendered amount as a Security Deposit for the contract is to be deposited by the selected agency/successful tenderer only after receiving a communication from the Institute. In the event of non-deposition of the same, the earnest money will be forfeited and the award of tender cancelled.
11. No interest on security deposit and earnest money deposit shall be paid by the Institute to the tenderer.
12. Service tax or any other tax applicable or made applicable after awarding the contract in respect of this contract shall be payable by contractor and Institute will re-imburse the 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 monthly bills of the successful tenderer, as per rules/instructions made applicable from time to time by government.
13. Director, CPCRI 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.
14. Director, Central Plantation Crops Research Institute shall be final authority for any aspect of the contract and binding to all parties. Disputes arising, if any on the contract will be settled at his/her level by mutual consultation and in case of failure to settle the dispute, it shall be referred to the sole arbitrator to be appointed by the Director, CPCRI. The decision of the sole Arbitrator so appointed shall be final and binding on the parties. Arbitration proceedings shall be governed by the Arbitration & Constitution Act, 1996.

- 15 Acceptance by the Institute will be communicated by FAX/ Speed post or any other form of communication. Formal letter of acceptance and work order of the Tenders will be forwarded as soon as possible, but the earlier instructions in the in the FAX/Speed post, etc. should be acted upon immediately.
16. The following documents/ vouchers are required to be enclosed with the tender forms which form part of terms and conditions of the tender document:
- a) Registration certificate of the firm under the work contract of the Govt. of Kerala.
 - b) Minimum turnover of the firm not less than Rs. 2,00,000/- (Rupees two lakhs only) during the last financial year.
 - c) Last three years continuous experience of the firm in the field of providing such services.
 - d) Central Govt. establishment/Autonomous bodies of Govt. of India/Corporations of Govt. of India/reputed public or private organizations provides the details in enclosed tabular form.
 - e) Certified Balance Sheet of the firm for last year of the service contract by the chartered account.
 - f) Duly certified copies of the satisfactory services where the Tenderer is providing the services for the last three years.
 - g) Employees EPF registration certificate issued by the appropriate authority.
The contractor shall obtain the labour license under CLRA Act 1970. No. of staff/supervisors registered with their EPF separately. Minimum 20 Nos. (staff/supervisors) with their EPF contributions. Documentary proof of vouchers to be required and may be attached.
 - h) Successful Tenderer will have to enter into a detailed contract agreement with Institute/(ICAR) on non-judicial stamp paper of 100/- (Rupees one hundred only) for each work.
 - i) Only those firms will be considered for opening their financial bid who will qualify in the technical bid.

Note: The technical bids and financial bids may be submitted in separate envelopes to be sealed and put in a main cover.

ADMINISTRATIVE OFFICER

**TENDERS FOR THE CONTRACT FOR SERVICE CONTRACT FOR PROVIDING
FARM OPERATION/LAB/HOUSE KEEPING WORKS CONTRACT
at Central Plantation Crops Research Institute, Kasaragod, Kerala**

Full Name & Address of the Tenderer
In addition to Post Box No., if any, should be
quoted in all communications to this Office
Telephone No:
Telegraphic Address/FAX/Cell No.
E-Mail address
From

- - - - -
- - - - -

To
The Director
C.P.C.R.I
Kasaragod 670 124

I/We have read all the particulars regarding the General information and other terms and conditions of the contract for **THE SERVICE CONTRACT FOR FARM OPERATION AND LAB/HOUSE WORKS** at Central Plantation Crops Research Institute, Kasaragod and agree to provide the services as detailed in the schedule herein to such portion thereof as you may specify in the acceptance letter of the Tender document at the rates given in Schedule-I to this tender and I/We agree to hold this offer open till 90 days. The rates quoted will be valid for a period of one year in the event of award of the Contract. I/We shall be bound by a communication acceptance communicated within a stipulated time.

- 2.I/We have understood these terms and conditions for the contract and shall provide the best of services strictly in accordance with these requirements.
- 3.The following pages have been added to and form a part of this Tender - - - - - The schedules-1 & II to accompany this Tender are at pages
- 4.Every page so attached with this Tender bears my signature and the office seal.
- 5..Pay order/DD No. of Rs. (Rupees only) drawn in favour of ICAR Unit, CPCRI, payable at Kasaragod is enclosed as earnest money required.
- 6.Pay order/DD No. of Rs. (Rupees only) drawn in favour of ICAR Unit, CPCRI, payable at Kasaragod is enclosed as cost of the Tender document required.

Yours faithfully,

Witness:
Address:
Occupation:
Signature of witness of contractor's signature
Address Name & Signature of witness
Address

Signature & seal of the Tenderer
Tel. No. Office
Residence
Mobile

Part – 1

1. Name of the firm/Agency
2. Full address with post box No.
And Telephone No. if any
3. Constitution of the firm.Agency
(Attached copy)
Indian companies Act, 1956
Indian Partnership Act, 1932
(Please give names of partners)
Any other Act, if not, the owners

4. For partnership firms whether Registered
Under the Indian Partnership Act, 1932,
Please state further whether by the
Partnership agreement to arbitration has
Been conferred on the partner who has
Signed the Tender
 - i) if answer to the above is in negative
whether there is any general power
of attorney executed by all the partner
who has signed the Tenders to refer
dispute condemning business of the
partnership to arbitration
 - ii) if the answer to above is in point one and two
the alternative please furnished a copy of either
the partnership agreement or the general power
of attorney as the case may be admitted by
affidavit on a properly stamped paper by all partner

5. Name and full Adress of your Banker's:
6. Your Permanent Income Tax No./Circle/Ward
7. Any other relevant information:

PART-II

8. Earnest Money Deposited Yes/No

PART- III

9. Name and Address of the firm's representative
And whether the firms would be representative
At the opening of the Tenders
10. Name of the Permanent Representative to be Visiting CPCRI, Kasaragod regarding the contract

Date: _____.

Place:_____.

AUTHOTISED SIGNATORY

Please add supplementary pages to be numbered wherever needed by the Tenderer

TERMS & CONDITIONS:

1. The supporting/allied services staff should follow strict attendance and alternative arrangements are to be made by the agency whenever any of the staff/supervisor goes on leave under intimation to this office.
2. Changing of Staff/Supervisor should be intimated to Officer in-charge, CPCRI, Kasaragod
3. The Director, CPCRI, Kasaragod reserves the right to reject any or all quotations in whole or in part without assigning any reason thereof. The decision of Director, CPCRI shall be final and binding on the Contractor/Agency in respect of any clause covered under the contract.
4. The staff provided should also maintain secrecy and discipline in the premises of Institute.
5. The Staff provided should be capable of reading and writing with a minimum qualification of Middle Standard.
6. The contractor shall keep a complaint register with his supervisor, and it shall be open to verification by the authorized officers of Institute for the purpose. All complaints should be immediately attended to by the Agency.
7. The agreement can be terminated with one month notice on either side.
8. The contractor shall not subcontract the work without prior written permission of the Institute
9. The selected agency shall provide the necessary personnel at this Institute as per labour acts prevalent in Kerala State. The agency shall employ good and reliable persons with robust health in the age group of 21 to 45 years. In case any of the personnel so provided is not found suitable by the Institute, the Institute shall have the right to ask for his replacement without giving any reason thereof and the agency shall, on receipt of a written communication will have to replace such persons immediately.
10. The persons so provided by the agency under his contract will not be the employee of the Institute and there will be no employer-employee relationship between the Institute and the person so engaged by the contractor in the aforesaid services.
11. Payment for service contract will be made monthly upon submission of pre-receipted bill and IT is paid on reimbursement basis
12. After physical inspection of the site, detailed assessment/requirements of personnel for providing workers at the Institute shall have to be furnished along with the Tender. However, the Tenders should indicate only the lump-sum amount in respect of all the services covered under this contract and that rates should not be proposed on the basis of manpower to be deployed under the contract. No request for alteration in the rates once quoted will be permitted within one year.
13. The rates to be quoted should include cost of each and every item including transportation cost, manpower cost and taxes etc. The Institute shall not bear any extra charge on any account whatsoever i.e. EPF contribution.
14. The contractor will discharge all his legal/statutory obligations in respect of the workers/supervisors to be employed/deployed by him for the execution of the work in respect of their wages and service conditions and shall also comply with all the rules and regulations and provisions of law in force that may be applicable to them from time to time. The contractor shall indemnify and keep indemnified the Institute from any claims, loss or damages that may be caused to it on account of any failure to comply with the obligations under various laws. In case of any dispute, the decision of Director, CPCRI, Kasaragod shall be final and binding on the contractor.
15. Income tax will be deducted from the payments due for the work done as per rule.
16. The contractor must employ adult labour only. Employment of child labour may lead to the termination of the contract.
17. The contract is subject to the condition that the conditions in the tender will comply with all the law and acts of Central/State Govt. relating to this contract applicable from time to time
18. Risk Clause: Institute reserves the right to discontinue the service at any time, if the services are found unsatisfactory by giving a show-cause notice to be replied within a week and also has the right to award the contract to any other agency at the risk and cost of present agency and excess expenditure incurred on account of this can be adjusted from Security Deposit or pending bills or by raising a separate claim.

LIQUIDATED DAMAGES CLAUSE:

1. An amount equivalent to two days of contract amount, subject to a minimum of Rs. 1000/- (Rupee one thousand only) will be levied as liquidated damages per day. Whenever and wherever it is found that the work is not up to the mark in any section, it will be brought to the notice of the supervisory staff of the firm by the Institute and if no action is taken within One Hour liquidated damages clause will be invoked.
2. Any misconduct/misbehavior on the part of the manpower deployed by the agency will not be tolerated and such person(s) will have to be replaced immediately.

The Director, CPCRI, Kasaragod reserves the right to reject any or all Tenders in whole or in part without assigning any reasons thereof. The decision of Director shall be final and binding on the contractor/agency in respect of any clause covered under the contract.

Details of the Minimum 3 years experience/work done:

Sl.No.	Name of the Deptt./Organization & Name of contract Person with Ph.No.	Period		No. of staff deployed	Remarks
		From	To		

Authorized Signature

FINANCIAL BID

(This financial bid to be enclosed in a separate envelop with seal)

Last date for receipt of Tender : **17.3.2016** up to 15.00 hrs

Date of opening of Financial Bid : As per the intimation

To
The Director
Central Plantation Cops Research Institute
Kasaragod 671 124

Sir,

I/We wish to submit our Tenders for **THE SERVICE CONTRACT FOR FARM OPERATIONAL/LAB./HOUSEKEEPING WORK** at Central Plantation Cops Research Institute, Kasaragod 671 124, Kerala

No.	Particulars/Details	Amount per month(will breakup) (Rs. In figures and words)

Tender for Farm/Lab/House Keeping

Name of the participating Firm/Agency _____

Check List

YES/NO

		YES/NO
1	Tender Document duly filled and signed	
2	Covering letter (as per the enclosed format)of the tender document	
3	Crossed Demand Draft for earnest Money Deposit as 3% of the bid value or prescribed after each items whichever is more	
4	Registration certificates of the firm under the work contract of the Govt. or the contractor/agency must have a registration with The Contractor shall obtain the labour license under the Contract Labour (Regulation and Abolition) Act, 1970.	
5	Certificate by Chartered Accountant certifying that the minimum turnover of the firm not less than Rs.2.00 lakh during the last financial year.	
6	Certified Balance Sheet of the firm for last year of the service contract by the chartered accountant	
7	Last three years continuous experience certificate of the firm in the filed of providing such services in Central 'govt. establishment/Autonomous bodies of Govt. of India/Corporations of Govt. of India/reputed public or private organization's provide the details in enclosed tabular form	
8	Duly certified copies of the satisfactory performance from where the Tenderer is providing services during for the last three years.	
9	PAN/TAN Number and copy of latest Income Tax Return	
10	Employees EPF registration certificate issued by Central Govt., etc.	
11	Service Tax Number/Proof may also be enclosed those who applied for obtaining Service Tax Number.	

Quotations for Contract work for different Divisions for 2016-2017

Crop Improvement Division

Genetics

Item No.	Details of works	Quantity of work (Approximate)	Period of the work	Rate (Rs.)	Amount (Rs.)	EMD (Rs.)
1	<u>A. Morphological measurements</u> Morphological Characters measurement in seedlings in the Genetic nursery.	Approximately 10,000 seedlings <u>(Approximately 3 Rounds)</u> (Approximately 4-8 observation)	August 2016 to July 2017	Rate may be Quoted per seedlings/Round.		2100.00
	<u>B. Morphological observation in field trials of Genetics section.</u> Morphological characters measurement in the different plots under Genetics section.	Approximately 2000 juvenile palm seedlings in the field. (Approximately 8-12 observations)	August 2016 to July 2017	Rate may be quoted per juvenile palm seedling.		1020.00
	<u>C. Morphometric measurements of fruits in hybrids/germplasm</u> Morphometric characters measurement of fruits in hybrids/germplasm under Genetics section.	Approximate 5000 fruits (Approximate 25-30 observations)	May 2016 to April 2017	Rate May be quoted per Fruit		6000.00
2	Weeding and Irrigation for poly bag Nursery seedlings and maintenance of the area.	10000 seedlings <u>Entire Work for One year</u>	April, 2016 to March, 2017	Rate may be quoted per entire work for one year		3600.00
3	Field operation for newly planted hybrid and germplasm trails under Genetic Section. The work includes- Base cleaning and bund making for individual seedlings during August-October, removal of weed clump as directed. Gap filling of the seedlings and their maintenance. Shading for gap filled seedlings. Maintenance of drip irrigation systems which	<u>Approximate area: 17 acres in Blocks B, C, G, H and F</u>	April 2016 to May 2017 Entire work for One Year	Rate may be quoted per entire work for one year		10,800.00

	includes- laying of lateral pipes and putting micro tubes 30cm depth and 1M away from the bole, laterals should be buried 20cm depth. Checking the motor, flushing the filter/pumps/micro tubes. Collection of coconut leaves mulching the basins of coconut palms, basin cleaning, weeding etc., Providing fertilizer 6 times through fertigation method as directed. The total duration of irrigation period is 7 months tentatively from November 2016 to June 2017. Removing and tying drip irrigation pipes during onset of monsoon Monitoring the pest and diseases in the newly planted trials and prophylactic treatments as directed.					
4	<u>Pit opening and planting</u> a) Digging of pit size 1M X 1M X 1M b) Removing seedlings from bed/polybag and transportation. c) Filling pit with soil and planting seedlings d) providing mulching, shading and support.	Approximately 200 seedlings	June 2016 to May 2017	Rate may be quoted per seedlings		2100.00
5	Maintenance of Drip irrigation system in DUS plot, 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. Machine weeding 2 times as directed, Maintenance of DUS Plot and weeding the base of the seedlings removal of dead seedling and gap filling. Prophylactic treatments, crown cleaning as directed.	Total Area = 1.5 acre ("G" Block) (320 Seedlings) <u>Entire Work for one year</u>	June 2016 to May 2017	Rate may be quoted for entire work for one year		3600.00
6	Sowing of coconut seed nuts in poly bags. Preparation of potting mixture including transportation of sand, soil etc. Leveling the poly bag nursery area, bag filling and sowing seed nuts in poly bags and numbering the poly bags.	Approximately 10,000 Nuts	April 2016 to March 2017	Rate may be quoted per nut		7800.00
7	<u>Maintenance of Dwarf palms in pachakkad plot</u> which includes the following works 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	3.5 acre and approximately 244 palms <u>Entire Work for one year</u>	June 2016 to May 2017	Rate may be quoted for entire work for one year		6300.00

	<p>etc., during August/September (Manures and fertilizers will be provided departmentally)</p> <p>Weeding in the trench/half moon bund and strengthening of the bund with pineapple gap filling, including fertilizer application for pineapple suckers.</p> <p>Herbicide spraying during August and October If required & as directed.</p> <p>Collection of shed nuts if any &. Scrapping weeds in basin and mulching of basins with the fallen leaves/husk/leaf shreds</p> <p>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).</p> <p>Removal of dead seedlings/palms as and when required and replanting/gap filling including shading.</p> <p>Hose irrigation to Pineapple suckers as and when required and directed.</p> <p>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.</p>					
8	<p>Uprooting and cutting of palms from the under planted plots/ old/dead palms under genetic section.</p> <p>Uprooting and removal of coconut palms from under planted plots. Palms should be removed along with bole and uprooted pit should be covered with soil; the trunk of the uprooted palms should be cut into suitable pieces and along with bole as well as crown waste should be transported away from the site and buried in trenches as directed. (trenches to be opened by the contractor). The mature/tender nuts should be handed over to Farm.</p>	300 palms in different plots (Approximately)	May 2016 to April 2017	Rate may be quoted per palm		7200.00

9	<p><u>DRIP IRRIGATION</u> Maintenance of drip irrigation systems which includes - laying of lateral pipes and putting micro tubes 30cm depth and 1M away from the bole, laterals should be buried 20cm depth. Checking the motor, flushing the filter/pumps/micro tubes. Collection of coconut leaves mulching the basins of coconut palms, basin cleaning, weeding etc., Providing fertilizers 6 times through fertigation method as directed. The total duration of irrigation period is six months tentatively from December 15th 2016 to June 15th 2017. Removing and tying drip irrigation pipes during onset of monsoon</p>	<p><u>28 Acres in Blocks A, B, C, D, E, F and H</u></p>	<p>December 15th 2016 to June 15th 2017). However exact date for start and completion of irrigation will be decided based on the monsoon pattern. Which will be intimated to the contractor by the concerned staff.</p>	<p>Rate May be Quoted per Acre/Month</p>		<p>8550.00</p>
10	<p><u>Characterization and breeder seed production in coconut:</u> Measuring morphological data on plants, fruit development mature & tender fruits observation and breeder seed production. Collection of male and female flower samples for analysis from identified palms, including the observations on the crown. Base and crown of selected palms to be kept clean. Monitoring pest and diseases of selected palms and remedial measures as directed. Pollen processing from selected palms for pollen storage studies. Pollination work to be undertaken from November /December 2016 to May 2017 includes monitoring mother palm and noting of bunch opening, emasculation, bagging, pollination with desired pollen as directed, removal of bag, recording number of female flowers, nut set, labelling etc., Keep the pollen processing area clean without contamination and mixture of pollen. Maintenance of pollination bags, clean and free from contaminants. Harvesting of previous years experimental nuts, marking with palm no/bunch no/plot no etc., and transporting to godown as directed. Two climbers to be provided to attend the work from 8 am to 5 pm. Day wise records of pollination and other observation should be maintained by individual</p>	<p><u>Approximately 100 Palms entire work one year</u></p>	<p>May 2016 to April 2017</p>	<p>Rate may be quoted per entire work for one year.</p>		<p>11700.00</p>

	climbers and provided as and when required. Each climber to be assigned with 40 to 50 palms (including Talls and Dwarfs) depending on the location, height and other requirements.					
11	<u>Laboratory (Genetics)</u> lab equipment handling for lab based analysis of the coconut experimental samples viz. leaf/flower anatomical studies (approximately 100), oil estimation approximately 100), tender nut water (approximately 100), as directed, including preparation of reagents, standards, collection and fixing tissue samples, processing of tissues and preparation of blocks, preparation of samples and other lab related works as directed.	Leaf/flower anatomical studies (approximately 100) Oil estimation (approximately 100) Tender nut water (approximately 100) <u>Entire work for one year</u> M.Sc., degree in Agri/Hort/Biochemistry/Biotechnology/Botany/Applied Botany/Bioscience	April 2016 to March 2017	Rate may be quoted per entire work for one year		4500.00
12	<u>AGRODIVERSITY PLATFORM:</u> Skilled assistance for nursery characterization of coconut germplasm Regular observation on seed nut sprouting characteristics in polybag nursery, monitoring for growth, pest and disease incidence, tabulating growth characters at quarterly intervals & related observations as directed.	approx 4000 seed nuts	Entire work for One year April 2016 to March 2017	Rate to be quoted for entire work		3240.00
13	<u>AGRODIVERSITY PLATFORM:</u> Skilled assistance for documentation of passport and characterization data of coconut germplasm Compilation of passport information, tabulating descriptor traits for germplasm cataloguing & related observations as directed.	approx 70 accessions	Entire work for One year April 2016 to March 2017	Rate to be quoted for entire work		3240.00
14	<u>PRODUCTION OF PLANTING MATERIALS – (Commercial)</u> <u>Nursery Handling - Coconut</u> Sowing of coconut seed nuts in the nursery which includes transporting of seed nuts from the godown to the field, preparing seed bed, application of treatments in trench as	Approximately 80,000 Nuts	April 2016 to March 2017	Rate may be quoted per nut		9600.00

	directed sowing seed nut and covering the trench with top soil and mulching with dried coconut leaves as directed.						
15	PRODUCTION OF PLANTING MATERIALS – (Commercial)		May 2016 to April 2017			90300.00	
	<u>Pollination Work</u> The pollination work includes:						
	<u>PART A</u> 1. Noting dates of bunch opening, emasculation, bagging, pollination and removal of bag; recording number of female flowers pollinated. 2. Emasculation (removal of male flowers from bunch) 3. Bagging (covering bunch with a cloth bag three days before female flower receptivity) 4. Collection of male spikes from dwarf and tall varieties 5. Processing male flowers to extract pollen grains (sample of each batch of processed pollen to be provided to the lab for testing germination) 6. Dusting pollens on the female flowers (on the bunch covered with bags; should be done before 11AM) 7. Removal of bags (2-3 days after completing pollen dusting in a bunch) and tagging (tying bunches with tags showing bunch number and date of last pollination) 8. Counting number of nuts set on the pollinated bunch.	Approximately 7000 Bunches			Rate may be quoted per bunch		
	<u>PART B</u> 1. Bunch wise harvesting the matured nuts of previous year pollination. 2. Marking harvested nuts with palm, bunch & nut number, sorting and transporting to seed storage shed. 3. Rope harvest as and when required as directed.	70,000 Nuts – Approximately			Rate may be quoted per nut		8400.00
	<u>Work quantum indicators:</u> 1. To complete pollination work in one bunch it may take 5-8 climbings 2. One climber can attend to 50 palms 3. Approximately 600 tall and 75 dwarf palms (6500 to 7000 bunches) <u>Conditions:</u> 1. The climbers should be available with the department from 8AM to 5 PM and attend pollination related work as described above and as directed. 2. All the day wise records of pollination should be						

	maintained by individual climbers and provide as and when required. 3. Work should be done as per the instructions.					
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Biotechnology

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	April 2016 to March 2017	Rate may be quoted for entire work	1800.00
	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	April 2016 to March 2017	The rate may be quoted for entire work	5040.00
	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			
18	Preparation of buffers/reagent	100 liters	April 2016 to March 2017	The rate may be quoted for entire work	2880.00
	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	100			

	UNIT and REAL TIME PCR THERMOCYCLER				
	Documentation of results and scoring of bands	5000			

Crop Production Division

Farm

19	<p>Harvesting of matured coconuts once in 60 days, removing dried leaves and spathes from the crown, providing man power for taking harvest notes (counting bunches, nuts in each bunch, female flowers, and discarding barren nuts - sufficient time should be given for taking data entry, loading and transporting harvested nuts to the godown premises, counting the nuts and putting the same in to the godown in the same day of harvest from all the plots (5or 6 rounds)/year. N.B. The harvesting will be started only as per instruction from Farm in charge, SIC (Farm) or in presence of concerned Technical staffs. The number of trees to be harvested per day will be approximate 200. <u>Part payment will be made only after completion each two rounds</u></p>	6,000 palms/round (6 rounds/year)	April 2016 to March 2017	Rate may be quoted per palm per round		45360.00
20	<p>Providing an experienced Tractor/Kubota operator who knows operating farm equipments and ploughing works in coconut gardens, transporting works with tractor/ Kubota connecting to trailor, Powdering coconut leaves/ petioles using biodegrading machines, coconut base opening using Kubota/ Tiller or any other works instructed by SIC/ Farm in Charge/ Technical staffs of Farm Time 8.30 am to 5.00 pm in all working days.(Operator should have a valid tractor driving license) <u>Part payment will be made only after completion of 150 man days</u></p>	300 man days	April 2016 to March 2017	Rate may be quoted per man day		8100.00
21	<p>Providing climber for pest/ disease surveillance and recording observations in different blocks of the institute farm at Kasaragod. Treating diseased and pest infested palms in different blocks of the institute farm at Kasaragod as instructed by Crop Protection/Farm staff (Entomology/ Farm section)(work has to be undertaken between 8.30 am to 5.00 pm) <u>Part payment will be made only after completion of 150 man days</u></p>	250 man days	April 2016 to March 2017	Rate may be quoted per man day		7200.00
22	Prophylactic spraying/pouring of chemicals on the crown		May to	Rate may be		11700.00

	<p>of young coconut palms/ Placing fungicide and pesticide sachets (3g) and filling sand each in the leaf axils of dwarf coconut palms, hooking out of beetles from the infested palms during May to December 2016 including packing charges (Once in two months) – 3 rounds (chemicals and packing materials will be provided by the institute) (Work will be undertaken between 8.30 am to 5.00pm)</p> <p style="text-align: right;">Young palms Seedlings</p> <p><i>Payment will be made only after completion of three rounds</i></p>	<p>3500 1500</p>	<p>December 2017 Three rounds once in 2 months</p>	<p>quoted for palm and seedling separately</p>		
23	<p>Removal of garbage once in a month from all the residential quarters at Hill block, Single Room Apartments and Chummary accommodations at main campus, all guest houses and hostel, waste pit and residential quarters at main campus, central school premises and office.</p> <p><i>Payment will be made only after completion of twelve rounds</i></p>	<p>106 Nos. of residential quarters, 20 Nos. SRA and 3 Nos. Guest house, Hostel and KV No.1 waste pit. 12 rounds</p>	<p>April 2016 to March 2017</p>	<p>Rate may be quoted for entire work per year</p>		<p>3000.00</p>
24	<p>Maintenance of garden in the CPCRI premises (Main campus, Sagar, Kalpaka and Chandragiri guest house premises which includes</p>		<p>April 2016 to March 2017</p>	<p>Rate may be quoted for entire work</p>		<p>7500.00</p>
	<p>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)</p>					
	<p>Periodical mowing the lawn with lawn mower</p>	<p>2550 sqm area</p>				
	<p>Flower pots cleaning watering and applying the fertilizer /pesticide etc</p>	<p>750 nos,</p>				
	<p>Re potting of flower pots and planting of flower plants as per the instructions</p>	<p>500 nos</p>				
	<p>Arranging and display of ornamental plants at office premises/ conference hall as and when required.</p>					
	<p>Trimming of border plants periodically, cutting, levelling, watering, applying fertilizers/ pesticides etc</p>	<p>500 nos</p>				
	<p>Trimming of hedge plants like <i>phyllanthus</i>, <i>Duranta</i>, <i>Acalypha</i></p>	<p>600 nos</p>				
	<p>Maintenance of garden in type VI quarter (Director of CPCRI), including weeding, cleaning,</p>					

	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. <i>Part payment will be made once in 4 months</i>					
25	Hand Weeding coconut nurseries, cleaning the beds interspaces and the weeded materials to be transported and deposited in the pits <i>Payment will be made only after completion of 3 rounds</i>	4 acre X 3 Rounds	April 2016 to March 2017	Rate may be quoted per acre		3600.00
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 Bioshredden 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 . <i>Part payment will be made once in 4 months</i>	750 man days 25 working days/ month	April 2016 to March 2017	Rate may be quoted per man/working day.		7500.00
27	Providing man power for operating weed cutting machine, power sprayer, fodder grass cutter etc in the farm <i>Part payment will be made once in 4 months</i>	600 man days/ year	April 2016 to March 2017	Rate may be quoted per man day		9600.00
28	Cleaning of all office which includes cleaning all the bath rooms and 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. <i>Part payment will be made once in 4 months</i>	7000sqm For entire works (25 working days/ month)		Rate may be quoted for entire work per month		14400.00
29	Laying of drip irrigation pipes for the coconuts, providing irrigation (Bulk plots), checking water flow, flushing the filter/ pumps/micro tubes. Basin cleaning by weeding and mulching with fallen coconut leaves and nuts/ cleaning the plots for 6 months tentatively from December 2016 to May 2017. The irrigation pipes and accessories are to be tied immediately after the completion of the irrigation	15 acre	December 2016 to May 2017. However exact date for start and completion of irrigation will be decided based on the	Rate may be quoted for entire work		4500.00

	<p>season.</p> <p><u>Payment will be made only after completion of works</u></p>		<p>monsoon pattern.</p> <p>Which will be intimated to the contractor by the concerned staff.</p>			
30	<p>Operation of motor pump for drinking water supply to residential quarters at Hill block.</p> <p>The work includes switch on and switch off motor pumps and filling the tank daily twice, cleaning the filters, assisting the repair of damaged pipe lines, irrigating garden plants inside and out side of Director's quarter, irrigating plants on the road side surrounding school ground, assisting plumbing works if required at Hill block campus and any other works instructed by SIC/ Farm in charge The contractor should ensure that water is available 24 hours</p> <p><u>Part payment will be made once in 6 months</u></p>	<p>All week days including Sunday and holidays. Working hours 2.00 pm am to 5pm.</p>	<p>April 2016 to March 2017</p>	<p>Rate may be quoted for entire work per monthly basis</p>		<p>3600.00</p>
31	<p>Plumbing work:</p> <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 • Repairs to the overhead water tank gauges, float valve, bibcock, PVC tanks, changing of washers, tightening glans 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) in 	<p>129 residential quarters, all non residential buildings and irrigation area within 77.9 hectares.</p> <p>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.</p> <p>-----</p>	<p>April 2016 to March 2017</p>	<p>Rate may be quoted for entire work per monthly basis</p>		<p>6300.00</p>

	<p>connection with water supply/plumbing</p> <ul style="list-style-type: none"> 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. <ol style="list-style-type: none"> The complaints of repair/non-----has to be attended immediately. The contractor has to take full responsibility of operation, repair and maintenance of the water supply/irrigation. 					
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Agronomy

32	<u>Tender nut experiment</u>		April 2016 to March 2017	The rate may be quoted for entire work		3600.00
	Inflorescence tagging and harvesting of tender nut/mature nut	124 palms per month in a staggered manner				
	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				
33	<u>HDMSCS</u>			Rate may be quoted for entire work per year		12000.00
	Planting of component crops which includes, bed preparation/pit opening and planting: planting of banana suckers as and when required	6000 m ²				
	Irrigation of the field with sprinkler	1.2 ha				
	Input/Fertilizer application as per the treatment requirement for each crop	2 rounds for coconut and others and 6 rounds for banana				
	Harvesting of cinnamon, nutmeg, banana and other annuals					
	Pepper harvesting (150 vines), Pepper sampling	Sampling One round, 42 palms				
	Nut studies	1250 nuts in 6				

		rounds (42 palms)				
	Removing of fallen leaves, cutting of old banana leaves, vermicomposting and other related works	1.5 ton each 4 times				
	Machine weeding	0.7 ha with 4 rounds				
	Manual weeding in the component crops grown area	0.5 ha with 6 rounds				
	Recording observation viz., Plant height, girth, no. of leaves and leaf sample collection	42 palms once in a year				
	Tender nut harvesting for quality study	42 palms 3 rounds				
34	Fruit plot, cocoa plot and tuber crops		April 2016 to March 2017	Rate may be quoted for entire work per year		6000.00
	Maintenance of the plot fertilizer application twice in a year as per the POP, basin opening, mulching, irrigation with drip system (laying of drip line and maintenance) , pruning, and harvesting of the component crops	2.2 ha (Approx. 800 trees)				
	Machine weeding	0.7 ha , 3 rounds				
35	Beach block- MSCS Maintenance of the plot clean, Planting of component crops which include bed preparation, pit opening, planting, input/fertilizer application as per the treatment, sprinkler irrigation and harvesting of the crop and Nut study	1.6 ha	Existing work order is up to July 2016. Hence this work can be considered from August 2016 onwards.	Rate may be quoted for entire work per year		10800.00
36	Management of Poor yielding palms Maintenance of the clean plot, basin opening input/fertilizer application as per the treatment, mulching and Nut study. Lying of drip line, maintenance for drip irrigation. (exact date of lying and maintenance is based on onset and cessation of monsoon)	1 ha.	April 2016 to March 2017	Rate may be quoted for entire work per year		3450.00
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	April 2016 to March 2017	Rate may be quoted for entire work per year		6000.00
38	Mixed farming		April 2016 to March	Rate may be		17250.00
	Maintenance of dairy unit (disposal of cow dung and	Approx. 12 animals				

	urine, bathing, milking by machine/manually and other related activities with dairy management)		2017	quoted for entire work per year		
	Maintenance of poultry unit (broiler, layer):, aquaculture	150 birds in each unit, per year 6 batches				
	Goat unit	Approx. 20+1				
	Maintenance of coconut based cropping systems including fodder grass, banana, pepper and other component crops- fertilizer application, sprinkler irrigation and nut study	5 acres				
	Harvesting of fodder grass, bundling and transportation of fodder grass in the experimental plots of CPCRI to mixed farming unit and chopping by using chop cutter/ manual on daily basis	400 kg green fodder /day				
39	<u>Maximization plot at south block</u> a) Periodical cleaning of the plot b) Trailing pepper plants to the trunk of the coconut c) Gap filling d) Pruning of cocoa e) Banana cultivation f) Fertilizer application for coconut, pepper, cocoa and nut mug g) Giving irrigation through sprinkler system h) Earthing up to the pepper i) Attending plant protection measures j) Mulching the basins of all the crops with fallen coconut leaves	1.5 acre (Entire work)	April 2016 to March 2017	Rate may be quoted for entire work per year		6000.00

Soil Science

40	Soil sample collection	3000 samples	April 2016 to March 2017	Rate may be quoted per sample		6300
	Plant sample collection	1000 samples		Rate may be quoted per sample		2250.00
	<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 	4500 samples		Rate may be quoted per sample		21600.00

	<p>computer</p> <ul style="list-style-type: none"> • 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>					
41	Washing of laboratory glass wares, drying and stocking in the respective place, and cleaning the laboratories	On daily basis:- 300 nos glass wares, work tables-6nos,	April 2016 to March 2017	Rate may be quoted for entire work per year		2400.00

Microbiology

42	<p>a) Sorting & collection of earthworm from vermicompost tanks & removing compost from tanks. Collection of dry coconut leaves and other waste from the field and transporting to vermicomposting tank site. Filling tanks with leaves (after cutting them) mixing with 10-20% cow dung slurry and covering this with dry grass for moisture retention. Transporting Vermicompost to Agrostology and in return transport fresh cow dung to vermicomposting site.</p> <p>b) Earthworm multiplication – Chopping coconut leaves, Bunch wastes, Transporting cow dung, Sieving of vermicompost and Coir pith compost, Application of water to vermicompost tanks and</p>	<p>a) 14 tanks of size 7.5 m X 3.0 m X 0.7 m</p> <p>b) 4 tanks of size 8.8 m X 1.0 m X 0.7 m</p> <p>Three rounds Quote rate/tank/round</p>	April 2016 to March 2017	Rate may be quoted per tank per round basis		9000.00
		<p>3000 kg leaf wastes 2500 kg bunch waste 3000 kg cow dung 2000 kg vermicompost 2000 kg coir pith compost</p>	Distributed throughout the year	Rate may be quoted for entire work/year		5100.00

	maintenance of soil less polybag grown crops. Sorting and packing earthworm for sale.					
43	Thatching the roof of vermicomposting tanks using plaited coconut leaves for production of vermicompost. Plaited coconut leaves covered by un-plaited dry coconut leaves to prevent direct sunlight, rain and wind damage.	4 tanks of size 15 m X 3 m	Once in a year	Rate may be quoted for entire work		1500.00
44	Preparation of media	20-30 l weekly	April 2016 to March 2017	Rate may be quoted for entire work/year		5100.00
	Reagent preparation	2-4 l weekly				
	Sterilization of media & reagents.	Two sterilization runs daily in autoclave for sterilization and de-sterilization.				
	Processing of soil samples and their analysis for general and functional groups.	More than 200 soil and other samples for microbial analysis.				
Enumeration of general and functions specific microbial communities from rhizosphere soils of coconut, arecanut and cocoa and other samples.						
45	Maintenance of important microbial cultures by regular sub-culturing and cryo-preservation techniques.	About 50-100 best isolates regularly.	April 2016 to March 2017	Rate may be quoted for entire work/year		5100.00
	Production of vermicompost and talc based PGPR bioinoculant for field application and supply to farmers.	More than 250-300 kg of bioinoculant regularly.				
	Taking observations in field studies	Collection of plant growth parameters in polybag and other field studies				

Maintenance Section

46	<u>Maintenance and attending all day to day complaint of carpentry works</u> <ul style="list-style-type: none"> Repairs to the door frames of residential and non residential buildings Repairs to the window & ventilator frames, of residential and non residential buildings Repairs to the door, window & ventilator shutters, of residential and non residential buildings Repairs and replacing of glass panes, wooden 	All the residential and non-residential buildings in the Institute. Working days for attending the daily complaints = 24 Days/Job in a month	April 2016 to March 2017	Rate may be quoted per month basis		6300.00
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	<p>beedings of window & ventilator , cupboard shutters, of residential and non residential buildings</p> <ul style="list-style-type: none"> • Removing and refitting of accessories like hinges, tower bolt , screws , handles , Aldrop, Inner latch, peg stay. mortise door lock , automatic door closure of residential and non residential buildings • Repairs to the cupboard shutters, replacing veneer sheets , laminated top coverings of Laboratory working tables , showcases and door shutters • Repair , resetting and replacing door locks and automatic door closures of residential and non residential buildings Removing , resetting and refixing of door and window shutters with minor modifications to the residential and non residential buildings • Removing, resetting and refixing the Mangalore tile roofing and AC Shed roofing with minor modifications of residential and non residential buildings • Repairs to the wooden portions and roof of Godowns , pump houses , and vehicle shed Chiseling and minor modifications to the door , window and ventilator shutter of residential and non residential buildings • Removing and refixing of wall plate , rafters , reapers and Mangalore pattern tiles of godowns and tile roof buildings • Assembling resetting and making new field boards , curtain rods , door/window pelmet and ornamental design work of Guest houses , kitchens etc • Assisting the committees in the preparation of frame work for banners , stage settings , fixing name plates , covering AC Duct with plywood etc • Assisting the maintenance section in the selection and purchase of wood accessories and 	<p>Working hours 9.30 am to 5.00pm (including lunch break).</p>				
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	<p>preparation of list of wood sections for repairs</p> <p>Note: The material required for attending the complaints shall be arranged by the Institute. One log book has to be maintained on day to day basis, which shall be verified by CEA/OIC on daily basis as proof of attending the complaints. The institute shall not be responsible for the loss or damage /causality, if any while executing the work, and shall be insured</p>					
47	<p>Maintenance and attending all day to day complaint of Masonry works</p> <ul style="list-style-type: none"> • Repairs to the soffit of slabs /ceilings RCC Columns, Beams, sunshades of residential and non residential buildings • Repairs /patch plaster to the sides of door , window & ventilator shutters, of residential and non residential buildings • Repairs/patch plaster to the floors , of residential and non residential buildings including godown and pump houses • Construction of masonry platforms , fixing of field boards in cement concrete to experimental plots • Repairs /providing cement bands to the valley gutter /ridge/replacing tiles/pointing to the Mangalore tile roofing of residential and non residential buildings including godown and pump houses • Removing, resetting and refixing the Mangalore tile roofing and AC Shed roofing with minor modifications of residential and non residential buildings • Repair , /relaying of ceramic /glazed tiles flooring and dadoing to the bath rooms / toilet/kitchen of residential and non residential buildings • Reconstruction of masonry drainage /redoing /repairs /renovation at residential and non residential buildings • Filling of pot holes , road patch work with 	<p>All the residential and non-residential buildings in the Institute.</p> <p>Working days for attending the daily complaints = 24 Days/Job in a month Working hours 9.30 am to 5.00pm (including lunch break).</p>	April 2016 to March 2017	Rate may be quoted per month basis		6300.00

	<p>cement concrete as directed</p> <ul style="list-style-type: none"> • Renovation/repairing the inspection chamber/ gully trap in coordination with plumber at residential and non residential buildings • Repairing the fencing parapet wall , boundary wall , grouting, brick lining and erection of fencing post in cement concrete at Institute boundaries • Assisting carpenter and plumber in the repair and maintenance of residential and non residential buildings • Painting, white washing, distempering the walls of residential and non residential buildings including godown and pump houses • Soil protection works like laterite stone pitching, granite stone /slab pitching / masonry bund construction in consultation with farm section • Assisting the maintenance section in the selection and purchase of building and any other work related to the maintenance of residential and non residential buildings as directed <p>Note: The material required for attending the complaints shall be arranged by the Institute. One log book has to be maintained on day to day basis, which shall be verified by CEA/OIC on daily basis as proof of attending the complaints. The institute shall not be responsible for the loss or damage /causality, if any while executing the work, and shall be insured</p>					
48	<p>Maintenance and attending all day to day complaint of Electrical works</p> <ul style="list-style-type: none"> • Repair and maintenance of all internal electrical installations in the office/lab buildings /KVK building • Assisting Technical Assistant (EE) in operation and maintenance of DG sets • Assisting Technical Assistant (EE) in operation and maintenance of substations 	All the residential and non-residential buildings in the Institute	April 2016 to March 2017	Rate may be quoted per month basis		6300.00

Division of Crop Protection

49	<p>Production of Trichoderma formulations (Pathology)</p> <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 Trichoderma culture with talc powder. • Shade drying the formulation for 3-5 days. • Packing in polythene bags of required quantity and sealing the bags. • Sub-culturing of <i>Trichoderma</i> spp. regularly and their maintenance.(once in 15 days). • Sub-culturing of <i>Phytophthora</i> spp. need to subculture every 15 days and maintenance of useful cultures. • Maintenance and sub-culturing of bio-control agents <i>Pseudomonas</i> spp. and <i>Bacillus</i> spp. • Maintenance of <i>Ganoderma</i>, <i>Pestotiopsis</i> and <i>Thielaviopsis</i> cultures by sub-culturing (monthly) <p>Preparation of slides from diseased field collected samples for microscopic examination.</p>	Entire work per year	April 2016 to March 2017	Rate may be quoted for entire work per year		4320.00
50	<p>Trichoderma mass production. (Pathology)</p> <ul style="list-style-type: none"> • Preparation of liquid cultures of Trichoderma using coconut water medium. • Powdering of Neem Cake. • Moistening the neem cake substrate. • Packing the powdered neem cake in 500 g capacity polythene bags. • Sterilization of substrate in polythene bags in autoclave. • Inoculation with <i>Trichoderma</i> liquid culture @ 10 ML/500 g. using the disposable syringe. • Incubating of substrate for 2-3 weeks. • Preparation of liquid media (coconut water). • Sterilization of the culture in flat bottles @ 100 ml. • Inoculation of the media with Trichoderma. • Incubation of the culture 	Entire work per year	April 2016 to March 2017	Rate may be quoted for entire work per year		2880.00
51	<p>Maintenance & Multiplication of Parasitoids, biocontrol agents, etc. (Entomology)</p> <ul style="list-style-type: none"> • Rearing of <i>Corcyra</i> larvae on broken wheat grains 	Entire work per year	April 2016 to March 2017	Rate may be quoted for entire work per year		4320.00

	<p>and transferring the larvae in to small test tubes for inoculation - 200 larvae/ day @ 30 paise/larvae</p> <ul style="list-style-type: none"> • 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 and maintenance of white grub cultures in the lab, cleaning and 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 					
52	<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. 	Entire work per year	April 2016 to March 2017	Rate may be quoted for entire work per year		4320.00

	<ul style="list-style-type: none"> • 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. 					
53	<ol style="list-style-type: none"> 1. Autoclaving disease samples and disposing them 2. Autoclaving used culture tubes (with micro-organism culture), cleaning with soap solution, drying and sterilizing in oven. 3. Autoclaving used Petri dishes (with micro-organism culture), cleaning with soap solution, drying and sterilizing in oven. 4. 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	April 2016 to March 2017	Rate may be quoted for entire work per year		1800.00

Division of Plant Physiology Biochemistry and Post Harvest Technology

54	<ul style="list-style-type: none"> • Regular operation of SCADA in Open Top Chambers • Assisting in measurement of water potential, photosynthetic parameters, chlorophyll fluorescence of coconut & cocoa seedlings. • Daily measurement of soil moisture using soil moisture probe to maintain plants at defined stress level. • Cleaning & maintenance of Open Top Chambers (six numbers) • Measured quantity watering of seedlings in OTC and shade net (120 Nos.) daily, removal of weeds, cleaning the premises of OTCs etc. • Assisting in sample collection for analysis, data recording, etc. • Replacement of CO₂ gas cylinder at regular intervals. 	<p>5 OTC</p> <p>Weekly</p> <p>Daily</p> <p>Daily</p> <p>Daily</p> <p>Fortnight</p> <p>Need basis</p>	April 2016 to March 2017	Rate may be quoted for entire work per year		4950.00
55	<p>Assisting in biochemical analysis coconut leaf samples of different treatments at regular intervals.</p> <ol style="list-style-type: none"> 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 2 D 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. Proximate analysis of the raw and unit operation based processed products of coconut processing: Fat content, Protein content, Dietary Fibre content, Ash/mineral content, energy value, FFA content, Peroxide value of raw kernel, coconut milk, VCO meal, VCO and VCO cake (Kalkam) at APC. 	Approx. 100 samples each time	April 2016 to March 2017	Rate may be quoted for entire work per year		9900.00
56	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	April 2016 to March 2017	Rate may be quoted for entire work per year		4500.00
57	Cleaning of glass wares, drying in oven and staking in proper place in Biochemistry lab; grinding samples, irrigation of pots and	approx. 200 nos./day	April 2016 to March	Rate may be quoted for		4500.00

	cleaning of machineries in APC.		2017	entire work per year		
58	Helping in the fabrication, repair and maintenance of farm implements and tools, pre and post harvest technology equipments machineries, etc., helping in the testing and evaluation of developed machineries in Technology Wing . (Apprenticeship)	Entire work	April 2016 to March 2017	Rate may be quoted for entire work per year		4500.00
59	Tapping for neera collection and making sugar. 1. Tapping involves preparation of the inflorescence as per the instruction of the officers of the Institute 2. Collecting neera in the ice box prescribed by the Institute. 3. The ice bags needs to be cooled and replaced before each tapping. 4. The collected neera to be brought to APC for sugar preparation. 5. Sugar preparation as per the instruction of the Officer 6. Packaging the prepared sugar.	30 palms X 2 times daily	April 2016 to March 2017	Rate may be quoted for entire work per year		15480.00
60	<u>AKMU</u> 1. Maintenance of Cyberoam Cr200i and ZyXEL-ZyWALL 35 UTM's, CISCO Router, Keymile Modem, DIGISOL Ethernet Switches, OFC Converter, Server etc. in the AKMU. 2. Cross-over crimping and Straight-through crimping of 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.	All the computers and networking in the Institute (160 computers and 100 Printers)	April 2016 to March 2017	Rate may be quoted for entire work per year		14400.00
61	<u>Electronics and Instrumentation</u> • Repair and maintenance of offline and online UPSs. (about 130 Nos.), repair and maintenance of battery banks attached to the	All the UPSs, telephone units and	April 2016 to March 2017	Rate may be quoted for entire work		6300.00

	<p>above UPSs and shifting and reinstallation of UPSs with battery banks.</p> <ul style="list-style-type: none"> • Repair and maintenance of all instruments in the institute. • Repair and maintenance of 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. 	laboratory instruments		per year		
62	<p><u>Library</u></p> <ul style="list-style-type: none"> • Updation / maintenance of institute digital repository, i.e, adding new records - 350 records approx • Entering key words identified for 5744 records - 18000approx. • Data entry of all articles with abstract appearing in “Indian coconut journal” and “Journal of plantation crops” into web Agris - 200 records • Downloading articles from subscribed online only journal issues, Advances in agronomy etc. and subsequent uploading to institute website - 2000 records 	Entire work	April 2016 to March 2017	Rate may be quoted for entire work per year		6300.00

Division of Social Sciences

63	<p>Designing of posters cover pages, editing of videos etc to bring out 100 publications during the centenary year 2016. The work includes following items</p> <p>Editing of photos taken during the functions/ training programmes / field programmes etc</p> <p>Designing of posters</p> <p>Designing of cover pages for publications</p> <p>Designing of banners</p> <p>Editing of videos for the news telecast and documentary</p> <p>Assistance during the coverages of the events.</p> <p>The person should have the knowledge of Photoshop, coral draw and edius softwares</p>	<p>100 publications, banners, posters and videos</p> <p>24 Days/Job in a month</p> <p>Working hours 9.30 am to 5.00pm (including lunch break).</p>	April 2016 to March 2017	Rate may be quoted for entire work per monthly basis		7200.00
64	<p>Maintenance of Vermicompost pit behind the ATIC building, Cleaning the surrounding of the building-approx. 0.5 ha, Cleaning of coconut museum (Dusting and cleaning inside the museum twice in a week and cleaning outside also.</p> <p>Irrigating and maintaining the coconut palms(14 palms), Cocoa trees & areca nut palms(24 palms in the surroundings of the ATIC building and maintenance of lawn in the middle of the ATIC Building</p>	<p>Vermicompost pit – 1 no.</p> <p>0.5 ha area</p> <p>Coconut – 14 palms</p> <p>Areca nut – 24 palms</p>	April 2016 to March 2017	Rate may be quoted for entire work per year		5400.00
65	<p>For arranging and assisting to participate in the exhibition by the institute at off campus and on campus and distribution of coconut seedlings to farmers</p>	<p>Throughout the year on an average of 10 days per month</p>	April 2016 to March 2017	Rate may be quoted for entire work per year		3960.00

		Seedling distribution (50,000) from June to September 2016				
66	Cyber extension activities	Statistics and economics 1 apprentice trainee	April 2016 to March 2017			
	Field surveys and data collection					
	Data entry and preliminary analysis of survey data from various projects of the division					
	Data collection and entry of secondary data on production and price statistics					
	Maintenance activities of the statistics lab, databases and software maintenance of the institute					

KVK, CPCRI, Kasaragod

67	<p>Maintenance of demonstration units. Attending different cultural operations like, planting, sowing seeds, irrigation, weeding, manuring and plant protection and harvesting in demonstration units on inter cropping in coconut garden with banana, fodder grass, pineapple, tuber crops, vegetables, jasmine plot, fruit crops and pepper nursery.</p>	1.8 Acre	April 2016 to March 2017	Rate may be quoted for entire work per year		3900.00
68	<p>Intercropping in coconut garden Intercropping in coconut garden with Rambutan, Nutmeg, Mangostene Kokum, Sappota, Indian goose berry by making pits and planting, and irrigation, weeding and manuring the plants. Planting the interspaces with Banana, Cassava, Elephant foot yam, pineapple, Pepper, Ginger, Turmeric, Flower crops by preparation of of seed beds and pits, planting, attending different cultural operations like planting and sowing seeds, irrigation, weeding, manuring , plant protection and harvesting in demonstration units on inter cropping in coconut garden . Opening pits 60X60X60 cm and planting-300 nos Land preparation and planting of ginger and turmeric- 2000 sq.m Land preparation and planting of tuber crops-2000 sq.m Land preparation and planting pineapple-500 sq.m Land preparation and planting flower crops- 500 sq.m</p>	2.0 Acre	April 2016 to March 2017	Rate may be quoted for entire work per year		4883.00
69	<p>Production of planting materials- Preparing potting mixture, filling bags/pro trays, arranging in nursery, sowing seeds/planting cuttings, plant protection, irrigation and weeding. (seedlings of papaya, drumstick, vegetables, arecanut, flowering plants, garden plants and fodder grass slips. Prepartion of pepper cuttings by IISR method of filling columns 8 feet height with coir pith(100 columns with 1 feet diameter) and erecting, planting pepper vines,</p>	1.5 Lakh nos.		Rate may be quoted for entire work per year		3525.00

	irrigation, manuring, planting rooted cuttings in bags, application of bio agents and manure, weeding and irrigation.					
70	Miscellaneous work in KVK which includes		April 2016 to March 2017	Rate may be quoted for entire work per year		6300.00
	Production of vegetable seeds- Land preparation, sowing seeds/planting seedlings, manuring, earthing up, providing pandal/support, plant protection, collecting seed, extracting, drying and packing.	50 kg				
	Production of vermicompost and coir pith compost	6 ton				
	Maintenance of fish pond and azolla unit	400 sqm.				
	Production of bio formulations and organic products	500 ltrs				
	Management of bee colonies (Indian bee colonies and stingless bee colonies)	35 colonies.				
	Preparation of input materials, cleaning washing , chopping, preparation of food products and bottling, washing utensils and assisting in Home Sc. Training programmes	50 programmes				
	Operation of farm machinery like power tiller, weed cutter, thresher cum winnower, banana fiber extractor and its maintenance for farm work and training programmes.	50 programmes				
71	House Keeping. Cleaning of KVK building- office rooms, verandah, laboratory, toilets, seminar hall, MAP building and office premises by sweeping, moping and cleaning properly on daily basis during working days.	547 sqmt office area and 800 sqmt surrounding area.		Rate may be quoted for entire work per year		1575
72	KVK SALES OUTLET Attending different works in the sales outlet of KVK like selling technological products, billing and maintaining stock and sales registers.	300 days		Rate may be quoted for man days		3150.00