

Consultancy of Dr. Giby Kuriakose as  
MOU and Revenue Generated is  
Rs 50000



കേരളം കേരल KERALA

29AA 443979

### Memorandum of Understanding

Between

ICAR- CENTRAL PLANTATION CROPS RESEARCH INSTITUTE

(Indian Council of Agricultural Research)

KASARAGOD - 671 124, KERALA, INDIA

And

Sacred Heart College (Autonomous), Thevara, Cochin

for facilitating Students' Training/Postgraduate Research

This Memorandum of Understanding (hereinafter referred to as MoU) is made on this 18<sup>th</sup> day of March in the year 2019 by and between the ICAR- CENTRAL PLANTATION CROPS RESEARCH INSTITUTE having its Head Office at Kasaragod [hereinafter called "ICAR-CPCRI"/First party], a constituent Research Institution of the Indian Council of Agricultural Research, Krishi Bhavan, New Delhi-110 001 on the ONE PART and the Sacred Heart College (Autonomous), Thevara, Cochin having its headquarters at Thevara, Cochin [hereinafter called "S.H. College, Thevara"/Second party] on the OTHER PART (who for the purpose of this MoU are hereinafter collectively referred to as the parties).

The parties, having discussed fields of common research interests and allied activities between the two institutions, have decided to enter into long-term collaboration for promotion of students' training and quality postgraduate research in cutting edge areas in accordance with the provisions contained in the Guidelines issued vide Letter No. 2-8/2012/HRD dated 11<sup>th</sup> December, 2012 or as revised from time to time.

WHEREAS the "First Party" is involved in the studies on Crop improvement, production, protection, physiology, biochemistry & post harvest technology and social science (specific mandated domain within the approved disciplines/divisions), AND WHEREAS the "Second Party", established in the year 1944, affiliated to Mahatma Gandhi University, Kottayam, included under Section 12(f) and 12(B) of the UGC Act 1956, at its Department of Botany is involved in Plant Molecular Biology, Plant Tissue Culture and Biotechnology.

AND WHEREAS it has been considered expedient to agree in writing to participate jointly in the projects requiring expertise and logistics from both the parties.

#### Article 1. Scope

- 1.1 The Second party will recognize the First party as an Institute for conducting research, related to the thesis requirement of the research students for M.Sc./Ph.D. The Second party will recognize Scientists of the ICAR Institute as recommended by its Director in accordance with the University rules and regulations for guiding students working for the said degree.
- 1.2 Operational details of research effort and collaboration will be made in common research programmes and/or projects restricted to specific mandated domain within the approved disciplines/divisions. The objective(s) for research work for a student coming from a Second party outside NARS should be exclusively different as far as possible.
- 1.3 Research instrumentation facility and library facilities available with the First party and the Second party will be made available to the faculty and research scholars. However, the costs of specific consumables will be borne by the respective organizations.
- 1.4 There shall be an exchange of students for academic, research and training purposes. Accommodation in the Hostel shall be arranged, wherever possible, as per extant rates. The duration of exchange visits will be determined by mutual consent between both the parties.

#### Article 2. Management

- 2.1 Director of the First party and the Vice-Chancellor/Head of the Institution of the Second party will be responsible to work out operational details of co-operation between the two organizations and ensure proper and effective implementation of this MoU.
- 2.2 The Advisory Committee will meet at least once in a year alternatively in the institutions of the First party and the Second party to review the activities. This meeting shall include presentation on the academic and research activities, which should be open to the students, faculty and scientists.

निदेशक  
(Signature of First Party)  
Central Plantation Crops Research Institute  
कुडलु डक कारगराड, P.O. KUDLU, KASARAGOD-671124

(Signature of Second Party)  
**Dr. Johnson X Palackappillil**  
Principal  
Sacred Heart College (Autonomous)  
Thevara, Kochi-682 013

### Article 3. Exchange of Information

- 3.1. The term "information" includes scientific or technical data, results and/or methods of investigation, and other information intended to be provided, exchanged, or arising under project descriptions entered into pursuant to this MoU.
- 3.2. The parties support the widest possible dissemination of information. Each party in joint projects shall be given the right to use, disclose, publish or disseminate such information for any and all purposes.

### Article 4. General Provisions

- 4.1 It is understood that the First party and the Second party subscribe to the principle of equal opportunity and do not discriminate on the basis of race, sex, age, caste or religion. Both the Institutions shall abide by these principles in the administration of this agreement and neither party shall impose criteria for exchange of scholars or students, which violate principles of non-discrimination.
- 4.2 Both parties understand that all financial agreements will have to be negotiated separately and will depend on the availability of funds.
- 4.3 Both parties acknowledge that exchange of students from one party to the other shall be subject to the availability of funds and shall comply with the regulations and policies of the First party and the Second party.
- 4.4 Any research publications arising will be jointly published in accordance with the provisions laid out in Item 3.2.1C of the Guidelines for the students to conduct research for their degree programme as trainees at ICAR institutions as notified vide Letter No. 2-8/2012-HRD dated 11<sup>th</sup> December, 2012 or revised guidelines, if any, as may be issued from time to time.
- 4.5 A copy of the thesis/dissertation will be submitted to the First Party after the award of the degree by the Second party.
- 4.6 All questions related to this MoU arising during its term will be settled by the parties by mutual agreement. Disagreements at the operating level shall be forwarded to respective higher officials for appropriate resolution failing which an arbitrator of mutual acceptance may be identified for the settlement of dispute, if any.
- 4.7 All questions not foreseen related to this MoU will be handled by the parties by mutual agreement.
- 4.8 Nothing in this MoU is intended to affect other cooperation or collaborations between the parties.

### Article 5. Intellectual Property Rights

- 5.1 The Second party will be expected to ensure protection of the Intellectual Property Rights generated or likely to be generated during the student's research work. The ICAR as the first applicant (for its institute) and the Second party shall be the joint applicants for IPRs and the students and involved scientific staff shall be included as the inventor/breeder/author. The 'ICAR Guidelines for Intellectual Property Management and Technology Transfer/Commercialization' as amended from time to time shall be the reference for exploitation of the generated intellectual property, whose management and benefits sharing shall be mutually decided in each case.

निदेशक  
Principal  
(Signature of First Party)  
Central Plantation Crops Research Institute  
कृषि संशोधन केंद्र, सारागोड  
PO: KPCRI, SARAGOD-671124

(Signature of Second Party)  
**Dr. Johnson X Palackappillil**  
Principal  
Sacred Heart College (Autonomous)  
Thevara, Kochi-682 013

### Article 6. Admission and Fees

- 6.1 All those who wish to register as trainees or for Master/Doctoral programme under this MoU must apply for admission at the Second party. The allocation of Major Guide/Advisor would be finalized before the registration and will be governed by the provisions laid out in Items 3.2.1A and 3.2.2A of the Guidelines for the students to conduct research for their degree programmes as trainees at ICAR institutions as notified vide Letter No. 2-8/2012-HRD dated 11<sup>th</sup> December, 2012 or revised Guidelines, if any, as may be issued from time to time, for the students from within NARS and outside NARS, respectively.
- 6.2 Admission of the students and the award of degrees for different programmes will be the responsibility of the Second party as per the rules and regulations.
- 6.3 Allotment of the students at the First party will be done by the approval of Director of the First party and Vice-Chancellor/Head of the Institution of the Second party.
- 6.4 The First party would have the right to screen the student's eligibility for admission based on their academic period.
- 6.5 The HRD Cell of the First party in consultation with the representative of the Second party shall decide the location and sharing quantum of research work.
- 6.6 The number of student(s) at any particular time will be subjected to the availability of research facilities and scientists' time to guide thesis research at the First party institution.
- 6.7 Any student(s) admitted to the First party for training/postgraduate research, if found violating the rules and regulations laid down by the First party or indulge in such activities that amount to tarnishing the image of the Institute, or cause damage to the property, the registration of such student(s) would be summarily terminated. The Second party will not complete the formalities of issuing the certificates to such students until they compensate the losses to the First party.
- 6.8 Fees will be charged from the students by the First party as per Guidelines for the students to conduct research for their degree programmes as trainees at ICAR institutions vide Letter No. 2-8/2012-HRD dated 11<sup>th</sup> December, 2012 or revised Guidelines, if any, as may be issued from time to time. No fee may be charged by the First party from the students registered with AU/DU within NARS. However a student registered with a Second party, outside NARS, will deposit fee of Rs.20,000/- for training/research/dissertation upto duration of 3 months and Rs.30,000/- per semester for the work exceeding three months. The fee structure is to be reviewed periodically after two years by the AU/DU or the ICAR Institute, as the case may be. *However, the students may be charged a fee of Rs.10,000/- for training duration of three months not leading to a dissertation/degree.*

### Article 7. Entry into effect, modification and termination

- 7.1 This MoU shall become effective on the date it is signed by the parties and shall be valid for three years extendable up to five years. Both parties shall review the status of the MoU at the end of each three/five year period to determine any modification, whenever necessary. The period of validity of this MoU may be extended by mutual consent up to five years. This MoU may be amended by mutual written agreement and may be terminated at any time by either party upon written notification signed by the competent authority of the party initiating termination. Such notification must be given to the other party at least six months in advance from the effective date of termination.

(Signature of First Party)  
Director  
केंद्रीय संशोधन केंद्र, अनुसंधान संस्थान  
Central Plantation Crops Research Institute  
कृषि संशोधन केंद्र, सारागोड  
PO: KPCRI, SARAGOD-671124

(Signature of Second Party)  
**Dr. Johnson X Palackappillil**  
Principal  
Sacred Heart College (Autonomous)  
Thevara, Kochi-682 013

- 7.2. All joint activities not completed at the expiration or termination of the MoU may be continued until their completion under the terms of this MoU.
- 7.3 No amendment or modification of the MoU shall be valid unless the same is made in writing by both the parties or their authorized representatives and specifically stating the same to be amendment of the MoU. The modifications/changes shall become part of the MoU and shall be effective from the date on which they are made/executed, unless otherwise agreed to.

This MoU has been executed in two originals, one of which has been retained by the First party and the other by the Second party).

IN WITNESS WHEREOF, the parties have executed this MoU and represent that they approve, accept and agree to terms contained herein.



(Name and Address of the First Party)

(Name and Address of the Second Party)

DIRECTOR  
ICAR-Central Plantation Crops  
Research Institute, Kasaragod - 671 224

PRINCIPAL  
Sacred Heart College (Autonomous)  
Thevara, Cochin - 682 013

Name of the Director of the First Party

Name of the Head of the Institution of the  
Second Party)

Dr. C. M. Anitha Kumar

Dr. Fr. Johnson X. Palackappillil

Tel No. 0494-232333

Tel. No. 0484-2663380

Date : 18.3.2019

Date : 18.3.2019

Signature with Seal

Signature with Seal

Dr. Johnson X Palackappillil  
Principal  
Sacred Heart College (Autonomous)  
Thevara, Kochi-682 013

Witness 1.....  
Dr. Jose John  
S.H. College  
Thevara

Witness 1.....  
Dr. Johnson X Palackappillil

Witness 2.....  
Saju. A. S.  
Anjilikkal Howe  
Maradu,  
Kochi

Witness 2.....  
Dr. Johnson X Palackappillil

### Annexure 1

The college agrees to collect at least 200 numbers of plant saplings/seedlings from below mentioned list.

Horthus Malabarekkus plants - non-available plants			
Sl. No.	English Name	Latin Name	Family
1	Pariti, Tali-Pariti	Talipariti tiliaceum	Malvaceae
2	Cudu-pariti പഞ്ഞിമരം	Gossypium arboreum	Malvaceae
3	Odallam ഒരളങ്ങ	Cerbera odallam	Apocynaceae
4	Canschi	Trewia nudiflora	Euphorbiaceae
5	Pala പാല	Alstonia scholaris	Apocynaceae
6	Kaida	Pandanus kaida	Pandanaceae
7	Perin-kaida-taddi	Pandanus unipapillatus	Pandanaceae
8	Kaida-tsjeria	Pandanus furcatus	Pandanaceae
9	Narum-panel	Uvaria narum	Annonaceae
10	Cara-nosi	Vitex trifolia	Verbenaceae
11	Bem-nosi	Vitex negundo	Verbenaceae
12	Bem-schetti	Ixora alba	Rubiaceae
13	Nedum-schetti	Memecylon sessile	Melastomataceae
14	Scherunam-cottam	Bridelia scandens	Euphorbiaceae
15	Modira-canni	Hugonia mystax	Linaceae
16	Caretti	Caesalpinia bonduc	Fabaceae
17	Cupi	Tarenna asiatica	Rubiaceae
18	Cattu-schiragam	Vernonia anthelmintica	Asteraceae
19	Nalagu	Leea asiatica	Leeaceae
20	Niruri	Breynia vitis-idaea	Euphorbiaceae
21	Cadel-avanacu	Croton tiglium	Euphorbiaceae
22	Ana-schunda	Solanum lasiocarpum	Solanaceae
23	Ana-schorigenam	Girardinia diversifolia	Urticaceae
24	Schadida-calli	Euphorbia antiquorum	Euphorbiaceae
25	Ela-calli	Euphorbia nivulia	Euphorbiaceae
26	Tiru-calli	Euphorbia tirucalli	Euphorbiaceae
27	Cara-schulli	Barleria mysorensis	Acanthaceae
28	Paina-schulli	Acanthus illicifolius	Acanthaceae

29	Carambu	Ludwigia perennis	Onagraceae
30	Cattu-carambu	Ludwigia octovalvis	Onagraceae
31	Nir-carambu	Ludwigia adscendens	Onagraceae
32	Codda-pana	Corypha umbraculifera	Arecaceae
33	Niti-panna	Nypa fruticans	Arecaceae
34	Katou-indel	Phoenix sylvestris	Arecaceae
35	Syalita	Dillenia indica	Dilleniaceae
36	Blatti	Sonneratia caseolaris	Sonneratiaceae
37	Panja, Panjala	Ceiba pentandra	Bombacaceae
38	Teregam	Ficus exasperata	Moraceae
39	Tsjela	Ficus amplissima	Moraceae
40	Tsjem-tani	Rumphia amboinensis	Anacardiaceae
41	Katou-naregam	Catunaregam spinosa	Rubiaceae
42	Tsjerou-katou-naregam	Naringi crenulata	Rutaceae
43	Nyalel, Nialel	Aglaia elaeagnoidea	Meliaceae
44	Idou-moulli	Scleropyrum pentandrum	Santalaceae
45	Katou-adamboe	Lagerstroemia hirsuta	Lythraceae
46	Karin-kara	Xanthophyllum arnottianum	Xanthophyllaceae
47	Perin-kara	Elaeocarpus serratus	Elaeocarpaceae
48	Katou-theka	Psychotria dalzellii	Rubiaceae
49	Tsjerou-Theka	Clerodendrum serratum	Verbenaceae
50	Iripa	Cynometra iripa	Fabaceae
51	Kalesjam	Lanea coromandelica	Anacardiaceae
52	Katou-kalesjam	Garuga pinnata	Burseraceae
53	Ben-kalesjam	Garuga pinnata	Burseraceae
54	Inga, Pongu	Hopea ponga	Dipterocarpaceae
55	Kariil	Vitex leucoxyton	Verbenaceae
56	Tsjerou-ponna	Calophyllum calaba	Ciuciaceae
57	Katou-kadali	Osbeckia aspera	Melastomataceae
58	Tsjerou-kadali	Osbeckia saxatilis	Melastomataceae
59	Oepata	Avicennia officinalis	Avicenniaceae
60	Wadouka	Capparis moonii	Capparaceae
61	Rava-pou	Guettarda speciosa	Rubiaceae
62	Ana-vinga	Casearia avata	Flacourtiaceae
63	Bengiri	Excoecaria indica	Euphorbiaceae
64	Pevetti, Pee-vetti	Glochidion zeylanicum	Euphorbiaceae
65	Poutaletsje	Hedyotis pruinosa	Rubiaceae
66	Bella-modagam	Scaevola sericea	Goodeniaceae
67	Tondi-teregam	Callicarpa tomentosa	Verbenaceae
68	Mail-elou	Vitex altissima	Verbenaceae
69	Katou-mail-elou	vitex pinnata	Verbenaceae

70	Beenel	Acronychia pedunculata	Rutaceae
71	Patsjotti	Symplocos cochinchinensis	Symplocaceae
72	Perin-patsjotti	Symplocos monantha	Symplocaceae
73	Katou-patsjotti	Maytenus emarginata	Celastraceae
74	Acara-patsjotti	Tetracera akara	Dilleniaceae
75	Mala-poenna	Litsea quinqueflora	Lauraceae
76	Corinti-panel	Polyalthia korintii	Annonaceae
77	Perin-panel	Acronychia pedunculata	Rutaceae
78	Tsjerou-panel	Polyalthia korintii	Annonaceae
79	Kaltsjerou-panel	Uvaria zeylanica	Annonaceae
80	Kasjavo-maram	Memecylon edule	Melastomataceae
81	Vetadagou	Scutia myrtina	Rhamnaceae
82	Kal-vetadagou	Scutia myrtina	Rhamnaceae
83	Watta-tail	Mallotus repandus	Euphorbiaceae
84	Mouli-ila, Moul-elavou	Zanthoxylum rhetsa	Rutaceae
85	Ben-kara	Benkara malabarica	Rubiaceae
86	Kanden-kara	Canthium coromandelicum	Rubiaceae
87	Tsjerou-kara	Canthium rheedei	Rubiaceae
88	Sondari, Kaka-ponna	Ehretia laevis	Boraginaceae
89	Kaka-toddali	Toddalia asiatica	Rutaceae
90	Bruxaneli	Bruxanellia indica	Euphorbiaceae
91	Tsjeria-nirouri	Phyllanthus reticulatus	Euphorbiaceae
92	Cammetti	Excoecaria agallocha	Euphorbiaceae
93	Pai-paroea, Couradi	Grewia glabra	Tiliaceae
94	Katapa	Colubrina asiatica	Rhamnaceae
95	Tsjocatti	Gomphia serrata	Ochnaceae
96	Tsjerou-kanneli	Casearia tomentosa	Flacourtiaceae
97	Amel-podi	Psychotria glandulosa	Rubiaceae
98	Poea-tsjetti	Gomphia serrata	Ochnaceae
99	Mala-elengi	Chionanthus mala-elengi	Oleaceae
100	Tsjerou-poeam	Blepharistemma serratum	Rhizophoraceae
101	Ben-moeoja	Premna hamiltoni	Verbenaceae
102	Beesha	Ochlandra scriptoria	Poaceae
103	Intsia	Acacia caesia	Fabaceae
104	Waga	Albizia odoratissima	Fabaceae
105	Moullava	Moullava spicata	Fabaceae
106	Thora-paerou	Cajanus cajan	Fabaceae
107	Kaka-moullou	Caesalpinia crista	Fabaceae
108	Ban-karetti	Caesalpinia crista	Fabaceae
109	Nagam	Heritiera littoralis	Sterculiaceae
110	Noel-valli, Panni-valli	Derris scandens	Fabaceae

111	Katou-pulcolli	<i>Peristrophe paniculata</i>	Acanthaceae
112	Perim-curigil	<i>Connarus monocarpus</i>	Connaraceae
113	Karin-tagera	<i>Dalbergia candenatensis</i>	Fabaceae
114	Padri	<i>Stereospermum colais</i>	Begoniaceae
115	Kedangu	<i>Sesbania bispinosa</i>	Fabaceae
116	Niir-pongelion	<i>Dolichandrone spathacea</i>	Bignoniaceae
117	Kandel	<i>Bruguiera gymnorrhiza</i>	Rhizophoraceae
118	Karii-kandel, Kanil-Kandel	<i>Bruguiera cylindrica</i>	Rhizophoraceae
119	Pee-kandel	<i>Rhizophora apiculata</i>	Rhizophoraceae
120	Tsjerou-kandel	<i>Kandelia candel</i>	Rhizophoraceae
121	Pou-kandel	<i>Aegiceras corniculatum</i>	Myrsinaceae
122	Kada-kandel	<i>Lumnitzera racemosa</i>	Combretaceae
123	Narinam-poulli	<i>Hibiscus surattensis</i>	Malvaceae
124	Katu-beloeren	<i>Hibiscus vitifolius</i>	Malvaceae
125	Tsjeru-mulla	<i>Psilanthus travancorensis</i>	Rubiaceae
126	Badukka	<i>Capparis rheedel</i>	Capparaceae
127	Solda	<i>Pterospermum diversifolium</i>	Sterculiaceae
128	Sida-pou	<i>Hiptage benghalensis</i>	Malpighiaceae
129	Natsjatam, Batta-valli	<i>Diploclisia glaucescens</i>	Menispermaceae
130	Tsjereu-caniram, Tsjerou cansjeram	<i>Cansjera rheedei</i>	Opiliaceae
131	Valli-canirarn	<i>Tiliacora acuminata</i>	Menispermaceae
132	Scheru-valli-caniram	<i>Cansjera rheedei</i>	Opiliaceae
133	Scheru-katu-valli-kaniram	<i>Strychnos minor</i>	Loganiaceae
134	Schembra-valli	<i>Ampelocissus indica</i>	Vitaceae
135	Vallia-pira-pitica	<i>Ampelocissus latifolia</i>	Vitaceae
136	Vallia-tsjori-valli	<i>Tetrastigma leucostaphylum</i>	Vitaceae
137	Tsjori-valli	<i>Cayratia trifolia</i>	Vitaceae
138	Amologo	<i>Piper argyrophyllum</i>	Piperaceae
139	Katu-kara-walli	<i>Canthium angustifolium</i>	Rubiaceae
140	Valli-kara	<i>Canthium coromandelicum</i>	Rubiaceae
141	Pee-amerdu	<i>Tinospora sinensis</i>	Menispermaceae
142	Ula	<i>Gnetum edule</i>	Gnetaceae
143	Pee-ula	<i>Combretum latifolium</i>	Combretaceae
144	Curinil, Curiginil	<i>Leptadenia reticulata</i>	Asclepiadaceae
145	Curigi-tail	<i>Rourea minor</i>	Connaraceae
146	Pada-vara	<i>Morinda umbellata</i>	Rubiaceae
147	Unjala	<i>Schefflera venulosa</i>	Araliaceae
148	Katu-katsjil	<i>Dioscorea bulbifera</i>	Dioscoreaceae
149	Erima-tail	<i>Erycibe paniculata</i>	Convolvulaceae
150	Pu-pal-valli	<i>Pupalia lappacea</i>	Amaranthaceae
151	Acatsja-valli	<i>Cassytha filiformis</i>	Lauraceae

152	Modira-valli	<i>Ancistrocladus heyneanus</i>	Ancistrocladaceae
153	Neriam-pulli	<i>Cissus repens</i>	Vitaceae
154	Podava-kelengu	<i>Dioscorea hispida</i>	Dioscoreaceae
155	Panambu-valli	<i>Flagellaria indica</i>	Flagellariaceae
156	Tsjeria-pu-pal-valli	<i>Aganosma cymosa</i>	Apocynaceae
157	Pongolam	<i>Drypetes roxburghii</i>	Euphorbiaceae
158	Bela-schora	<i>Lagenaria siceraria</i>	Cucurbitaceae
159	Schakeri-schora	<i>Cucurbita moschata</i>	Cucurbitaceae
160	Cumbulam	<i>Benincasa hispida</i>	Cucurbitaceae
161	Mullen-belleri	<i>Cucumis sativus</i>	Cucurbitaceae
162	Piccina	<i>Luffa acutangula</i>	Cucurbitaceae
163	Kattu-piccina	<i>Luffa aegyptiaca</i>	Cucurbitaceae
164	Pandi-pavel	<i>Momordica charantia</i>	Cucurbitaceae
165	Pavel	<i>Momordica charantia</i>	Cucurbitaceae
166	Balia-mucca-piri	<i>Cucumis prophetarum</i>	Cucurbitaceae
167	Erima-pavel	<i>Momordica dioica</i>	Cucurbitaceae
168	Padavalam	<i>Trichosanthes cucumerina</i>	Cucurbitaceae
169	Scheru-padavalam	<i>Trichosanthes nervifolia</i>	Cucurbitaceae
170	Tota-piri	<i>Trichosanthes nervifolia</i>	Cucurbitaceae
171	Ben-pavel	<i>Momordica denudata</i>	Cucurbitaceae
172	Modira-caniram	<i>Strychnos colubrina</i>	Loganiaceae
173	Kudici-valli	<i>Merremia hederacea</i>	Convolvulaceae
174	Naga-mu-valli	<i>Bauhinia scandens</i>	Fabaceae
175	Perim-kaku-valli	<i>Entada rheedei</i>	Fabaceae
176	Kaku-valli	<i>Mucuna gigantea</i>	Fabaceae
177	Putsja-paeru	<i>Vigna radiata</i>	Fabaceae
178	Ana-mullu	<i>Dalbergia horrida</i>	Fabaceae
179	Paeru	<i>Vigna unguiculata</i>	Fabaceae
180	Katu-paeru	<i>Vigna adenantha</i>	Fabaceae
181	Katu-tsjandi	<i>Canavalia rosea</i>	Fabaceae
182	Bara-mareca	<i>Canavalia gladiata</i>	Fabaceae
183	Katu-baramareca	<i>Canavalia cathartica</i>	Fabaceae
184	Tsjeria-cametti-valli	<i>Derris trifoliata</i>	Fabaceae
185	Penar-valli foemina	<i>Zanonia indica</i>	Cucurbitaceae
186	Penar-valli masc	<i>Zanonia indica</i>	Cucurbitaceae
187	Katu-ulunu	<i>Vigna mungo</i>	Fabaceae
188	Mu-kelengu	<i>Dioscorea esculenta</i>	Dioscoreaceae
189	Kaka-kodi	<i>Anodendron manubriatum</i>	Apocynaceae
190	Kudici-kodi	<i>Parsonsia alboflavescens</i>	Apocynaceae
191	Wallia-pal-valli	<i>Parsonsia alboflavescens</i>	Apocynaceae
192	Kametti-valli	<i>Kamettia caryophyllata</i>	Apocynaceae

193	Njota-njodien-valli	<i>Ceropegia candelabrum</i>	Asclepiadaceae
194	Parparam	<i>Tylophora tetrapetala</i>	Asclepiadaceae
195	Neli-tali	<i>Aeschynomene indica</i>	Fabaceae
196	Niti-todda-vaddi	<i>Neptunia prostrata</i>	Fabaceae
197	Man-todda-vaddi	<i>Tephrosia rheedei</i>	Fabaceae
198	Cara-veela	<i>Gynandropsis gynandra</i>	Capparaceae
199	Tandale-cotti	<i>Crotalaria juncea</i>	Fabaceae
200	Nella-tandale-cotti	<i>Crotalaria laburnifolia</i>	Fabaceae
201	Wellia-tandale-cotti	<i>Crotalaria quinquefolia</i>	Fabaceae
202	Kondam-pullu	<i>Lindernia oppositifolia</i>	Scrophulariaceae
203	Nir-murri	<i>Alysicarpus bupleurifolius</i>	Fabaceae
204	Cupa-vela	<i>Catharanthus pusillus</i>	Apocynaceae
205	Tsjeru-vela	<i>Cleome monophylla</i>	Capparaceae
206	Nir-pullari	<i>Pycnospora lutescens</i>	Fabaceae
207	Manneli	<i>Indigofera aspalathoides</i>	Fabaceae
208	Tsjovanna-manneli	<i>Indigofera uniflora</i>	Fabaceae
209	Tsjeru-manelli	<i>Dentella repens</i>	Rubiaceae
210	Suendadi-pullu	<i>Melilotus indica</i>	Fabaceae
211	Katu-karivi	<i>Andrographis atropurpurea</i>	Acanthaceae
212	Pee-tumba	<i>Indoneesiella echioides</i>	Acanthaceae
213	Onapu	<i>Impatiens chinensis</i>	Balsaminaceae
214	Valli-onapu	<i>Impatiens latifolia</i>	Balsaminaceae
215	Tsjeria-onapu	<i>Impatiens tilo</i>	Balsaminaceae
216	Man-onapu	<i>Impatiens minor</i>	Balsaminaceae
217	Bellutta-onapu	<i>Impatiens minor</i>	Balsaminaceae
218	Tilo-onapu, Notenga	<i>Impatiens balsamina</i>	Balsaminaceae
219	schit-elü	<i>Sesamum indicum</i>	Pedaliaceae
220	Car-elü	<i>Sesamum indicum</i>	Pedaliaceae
221	Cara-caniram	<i>Andrographis paniculata</i>	Acanthaceae
222	Tsjanga-puspam	<i>Lindernia rotundifolia</i>	Scrophulariaceae
223	Katu-pee-tsjanga-puspam	<i>Lindernia crustacea</i>	Scrophulariaceae
224	Pee-tsjanga-puspam	<i>Lindernia ciliata</i>	Scrophulariaceae
225	Nelam-parenda	<i>Hybanthus enneaspermus</i>	Violaceae
226	Katu-vistna-clandi	<i>Polygala arvensis</i>	Polygalaceae
227	Tali-pullu	<i>Murdannia nudiflora</i>	Commelinaceae
228	Upu-dali	<i>Dipteracanthus patulus</i>	Acanthaceae
229	Soneri-ila	<i>Sonerila rheedei</i>	Melastomataceae
230	Kalu-polapen	<i>Striga asiatica</i>	Scrophulariaceae
231	Kodatsjeri	<i>Polygala arvensis</i>	Polygalaceae
232	Corosinam	<i>Centranthera indica</i>	Scrophulariaceae
233	Pul-colli	<i>Rhinacanthus nasuta</i>	Acanthaceae

234	Nelipu	<i>Utricularia reticulata</i>	Lentibulariaceae
235	Kotsjiletti-pullu	<i>Xyris indica</i>	Xyridaceae
236	Minangani	<i>Acrocephalus hispidus</i>	Lamiaceae
237	Tsjeru-uren	<i>Melochia corchorifolia</i>	Sterculiaceae
238	Tardavel	<i>Spermacoce hispida</i>	Rubiaceae
239	Pola-tsjira	<i>Bergia capensis</i>	Elatinaceae
240	Pee-tardavel	<i>Allmania nodiflora</i>	Amaranthaceae
241	Gesneriaceae	<i>Rhynchoglossum obliquum</i>	Gesneriaceae
242	Ene-panel	<i>Hydrilla verticillata</i>	Hydrilla verticillata
243	Nelam-mari	<i>Zornia gibbosa</i>	Fabaceae
244	Mallam-tsjulli	<i>Zornia diphylla</i>	Fabaceae
245	Beli-tsjira	<i>Nesaea ianceolata</i>	Lythraceae
246	Bahel-tsjulli	<i>Artanema longifolium</i>	Scrophulariaceae
247	Sjasmin	<i>Hibiscus hirtus</i>	Malvaceae
248	Velluta-itti-canni	<i>Helicanthes elasticus</i>	Loranthaceae
249	Kanneli-itti-canni	<i>Helixanthera wallichiana</i>	Loranthaceae
250	Nir-valli-pulli	<i>Hygroryza aristata</i>	Poaceae
251	Nir-pulli	<i>Cyanotis axillaris</i>	Commelinaceae
252	Kirganeli	<i>Phyllanthus kozhikodianus</i>	Euphorbiaceae
253	Tsjeru-kirganeli	<i>Phyllanthus gardnerianus</i>	Euphorbiaceae
254	Manja-adeca-manjen	<i>Blumea eriantha</i>	Asteraceae
255	Nelam-pullu	<i>Murdannia semiteres</i>	Commelinaceae
256	Akara-puda	<i>Drosera indica</i>	Droseraceae
257	Kaipa-tsjira	<i>Glinus oppositifolius</i>	Molluginaceae
258	Tsjeru-talu-dama	<i>Neanotis rheedei</i>	Rubiaceae
259	Tsjeru-jonganam	<i>Mollugo stricta</i>	Molluginaceae
260	Niruri, Nirpulla	<i>Phyllanthus virgatus</i>	Euphorbiaceae
261	Tsjeru-vallel	<i>Hydrolea zeylanica</i>	Hydrophyllaceae
262	Nelatsjera	<i>Portulaca quadrifolia</i>	Portulacaceae
263	Caicotten-pala	<i>Euphorbia thymifolia</i>	Euphorbiaceae
264	Wadapu	<i>Gomphrena globosa</i>	Amaranthaceae
265	Belutta-adeca-manjen	<i>Celosia argentea</i>	Amaranthaceae
266	Tsjeria-belutta-adeca-manjen	<i>Celosia argentea</i>	Amaranthaceae
267	Vallia-manga-nari	<i>Wollastonia biflora</i>	Asteraceae
268	Pee-cajennam	<i>Wedelia chinensis</i>	Asteraceae
269	Tsjetti-pu	<i>Dendranthema indicum</i>	Asteraceae
270	Katu-tsjetti-pu	<i>Artemisia japonica</i>	Asteraceae
271	Ana-coluppa	<i>Phyla nodiflora</i>	Verbenaceae
272	Bena-patsja	<i>Heliotropium keralense</i>	Boraginaceae
273	Nelam-pata	<i>Grangea maderaspatana</i>	Asteraceae
274	Nanschera-canschabu	<i>Lindernia caespitosa</i>	Scrophulariaceae

275	Nir-cottam-pala	<i>Euphorbia hypericifolia</i>	Nir-cottam-pala
276	Cansjan-cora	<i>Canscora perfoliata</i>	Gentianaceae
277	Tsjeru-parua	<i>Sida acuta</i>	Malvaceae
278	Katu-uren	<i>Sida Cordifolia</i>	Malvaceae
279	Niruren	<i>Melochia corchorifolia</i>	Sterculiaceae
280	Naga-pou	<i>Pentapetes phoenicea</i>	Sterculiaceae
281	Ben-pala	<i>Euphorbia articulata</i>	Euphorbiaceae
282	Wellia-codiveli	<i>Pupalia lappacea</i>	Amaranthaceae
283	Kalengi-cansjava	<i>Cannabis sativa</i>	Cannabinaceae
284	Tsjeru-cansjava	<i>Cannabis sativa</i>	Cannabinaceae
285	Nari-patsja	<i>Blumea mollis</i>	Asteraceae
286	Pu-tumba	<i>Phyllocephalum indicum</i>	Asteraceae
287	Manam-podam	<i>Pogostemon paniculatus</i>	Lamiaceae
288	Katu-mailosina	<i>Polycarpha corymbosa</i>	Caryophyllaceae
289	Pee-coipa	<i>Allmania nodiflora</i>	Amaranthaceae
290	Inota-inodien	<i>Physalis angulata</i>	Solanaceae
291	Pee-inota-inodien	<i>Physalis angulata</i>	Solanaceae
292	Caca-mullu	<i>Pedaliium murex</i>	Pedaliaceae
293	Nelen-tsjunda	<i>Solanum americanum</i>	Solanaceae
294	Cottam	<i>Pogostemon heyneanus</i>	Lamiaceae
295	Scheru-cadelari	<i>Cyathula prostrata</i>	Amaranthaceae
296	Belutta-modela-muccu	<i>Polygonum barbatum</i>	Polygonaceae
297	Cupameni	<i>Acalypha indica</i>	Euphorbiaceae
298	Pee-cupameni	<i>Acalypha racemosa</i>	Euphorbiaceae
299	Welia-cupameni	<i>Acalypha racemosa</i>	Euphorbiaceae
300	Perim-tolassi	<i>Plectranthus mollis</i>	Lamiaceae
301	Tsjadean	<i>Anisomeles indica</i>	Lamiaceae
302	Tsjeria-manga-nari	<i>Lobelia alsinoides</i>	Campanulaceae
303	Katu-kurka	<i>Anisochilus carnosus</i>	Lamiaceae
304	Katu-tumba	<i>Geniosporum methoides</i>	Lamiaceae
305	Carim-tumba	<i>Adenosma indiana</i>	Scrophulariaceae
306	Tsjeru-tardavel	<i>Justicia procumbens</i>	Acanthaceae
307	Manja-kua	<i>Boesenbergia rotunda</i>	Zingiberaceae
308	Parua-kelangu	<i>Aponogeton natans</i>	Aponogetonaceae
309	Nir-tsjembu	<i>Theriophonum infaustum</i>	Araceae
310	Nelenschena minor	<i>Theriophonum infaustum</i>	Araceae
311	Nelenschena major	<i>Typhonium flagelliforme</i>	Araceae
312	Pontederiaceae	<i>Tacca leontopetaloides</i>	Pontederiaceae
313	Pongati	<i>Sphenoclea zeylanica</i>	Sphenocleaceae
314	Kurka	<i>Coleus rotundifolius</i>	Lamiaceae
315	Nedel-ambel	<i>Nymphoides indica</i>	Menyanthaceae

316	Panover-tsjeraua	<i>Trapa natans</i>	Trapaceae
317	Naru-kila	<i>Phrynium rheedei</i>	Marantaceae
318	Bela-pola	<i>Geodorum densiflorum</i>	Orchidaceae
319	Ela-pola	<i>Eulophia spectabilis</i>	Orchidaceae
320	Belam-canda-schularmani	<i>Belamcanda chinensis</i>	Iridaceae
321	Belutta-pola-taly	<i>Crinum defixum</i>	Amaryllidaceae
322	Sjovanna-pola-tali	<i>Crinum latifolium</i>	Amaryllidaceae
323	Catulli-pola	<i>Pancratium triflorum</i>	Amaryllidaceae
324	Katu-kapel, Cadena	<i>Sansevieria ebracteata</i>	Agavaceae
325	Culi-tamara	<i>Limnophyton obtusifolium</i>	Alismataceae
326	Ottel-ambel	<i>Ottelia alismoides</i>	Hydrocharitaceae
327	Tsjem-cumulu	<i>Aeginetia indica</i>	Orobanchaceae
328	Munda-valli	<i>Ipomoea alba</i>	Convolvulaceae
329	Kattu-kalengu	<i>Hewittia malabarica</i>	Convolvulaceae
330	Ben-tiru-tali	<i>Aniseia martinicensis</i>	Convolvulaceae
331	Tala-neli	<i>Merremia tridentata</i>	Convolvulaceae
332	Adamboe	<i>Ipomoea campanulata</i>	Convolvulaceae
333	Schovanna-adamboe	<i>Ipomoea pes-caprae</i>	Convolvulaceae
334	Bel-adambu	<i>Ipomoea asarifolia</i>	Convolvulaceae
335	Pulli-schovadi	<i>Ipomoea pes-tigridis</i>	Convolvulaceae
336	Tsjuria-cranti	<i>Ipomoea quamoclit</i>	Convolvulaceae
337	Cattu-valli, Batta-valli	<i>Diploclisia glaucescens</i>	Menispermaceae
338	Sendera-clanti	<i>Merremia tridentata</i>	Convolvulaceae
339	Ponnampou-maravara	<i>Taprobanea spathulata</i>	Orchidaceae
340	Tsjerou-mau-maravara	<i>Cleisostoma tenuifolium</i>	Orchidaceae
341	Kolli-tsjerou-mau-maravara	<i>Cleisostoma tenuifolium</i>	Orchidaceae
342	Welli-panna-kelengu-maravara	<i>phymatosorus nigrescens</i>	Polypodiaceae
343	Para-panna-maravara	<i>Diplazium esculentum</i>	Aspleniaceae
344	Kal-panna-maravara	<i>Cheilanthes tenuifolia</i>	Adiantaceae
345	Nella-panna-maravara	<i>Asplenium decrescens</i>	Aspleniaceae
346	Panna-mara-maravara	<i>Bolbitis subcrenata</i>	Aspleniaceae
347	Tsjerou-tecka-maravara	<i>Rhytionanthos rheedei</i>	Orchidaceae
348	Katou-theka-maravara	<i>Eulophia graminea</i>	Orchidaceae
349	Katou-kaida-maravara	<i>Eulophia epidendreae</i>	Orchidaceae
350	Basaala-poullou-maravara	<i>Seidenfia rheedei</i>	Orchidaceae
351	Katou-ponnam-maravara	<i>Liparis odorata</i>	Orchidaceae
352	Valli-vara-kody-maravara	<i>Leptochilus bahupunctika</i>	Polypodiaceae
353	Tsjeru-valli-panna	<i>Lygodium flexuosum</i>	Schizaeaceae
354	Pana-valli	<i>Stenochlaena palustris</i>	Blechnaceae
355	Tsjudan-tsjera	<i>Limnophila indica</i>	Scrophulariaceae
356	Puem-peda	chidaceaeolor	Bryaceae

357	Motta-pullu	Rikliella squarrosa	Cyperaceae
358	Bellan-patsja	Lycopodiella cernua	
359	Tsjama-pullu	Eragrostis amabilis	Poaceae
360	Wara-pullu	Cyperus exaltatus	Cyperaceae
361	Kudira-pullu	Chrysopogon aciculatus	Poaceae
362	Tereta-pullu	Paspalum distichum	Poaceae
363	Tsjama-pullu	Leptochloa malabarica	Poaceae
364	Kaden-pullu	Scleria lithosperma	Cyperaceae
365	Tagadi	Ischaemum muticum	Poaceae
366	Pota-pullu	Cyperus malaccensis	Cyperaceae
367	Konda-pullu	Chloris barbata	Poaceae
368	Mottenga	Kyllinga nemoralis	Cyperaceae
369	Pee-mottenga	Cyperus michelianus	Cyperaceae
370	Mulen-pullu	Fimbristylis argentea	Cyperaceae
371	Ira	Mariscus javanicus	Cyperaceae
372	Ira	Cyperus pilosus	Cyperaceae
373	Kodi-pullu	Imperata cylindrica	Poaceae
374	Beera-kaida	Hypolytrum nemorum	Cyperaceae
375	Katou-tsjolam	Scleria terrestris	Cyperaceae
376	Kuren-puiiu	Panicum miliaceum	Poaceae
377	Tsjeria-kuren-pullu	Perotis indica	Poaceae
378	Kol-pullu	Mariscus sumatrensis	Cyperaceae
379	Katu-tsjurel	Calamus rheedei	Arecaceae
380	Tsjolla-pullu	Scleria	Cyperaceae
381	Tsjeru-kotsjiletti-pullu	Eriocaulon setaceum	Eriocaulaceae
382	Kavara-pullu	Dactyloctenium aegyptium	Poaceae
383	Catri-conda	Coix lacryma-jobi	Poaceae
384	Tsjeli	Scirpus articulatus	Cyperaceae
385	Ramacciam	Vetiveria zizanioides	Poaceae
386	Tiri-panna	Pyrrosia lanceolata	Polypodiaceae
387	Schovanna-modela-muccu	Polygonum glabrum	Polypodiaceae
388	Tsjetti-pullu	Eleusine coracana	Poaceae
389	Tenna	Calamus rheedei	Poaceae

For the College

The principal



For the trust

For Sri Genom Research Foundat  
 Trustee

Tru:



Total Revenue Generated under the consultancy of Dr. Giby Kuriakose, Asst. Prof. Botany as a consultant of Scigenom project in 2018 = Rs 50000

**Sacred Heart College Thevara - 2019-20**

Thevara, Ernakulam

**Reserch & Projects**

Ledger Account

1-Apr-2018 to 22-Nov-2019

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Date	Particulars	Vch Type	Vch No.	Debit	Credit
1-9-2018	By <b>Federal Bank 1012 (General)</b> <i>Cig/Scigenom Reserve Bot Dept Ch 268</i> <i>HDFC</i>	Receipt	810		50,000.00
4-10-2018	To <b>ICICI Bank A/c</b> <i>Dr. Giby Kriiakose</i>	Payment	1809	25,000.00	
1-11-2018	To <b>ICICI Bank A/c</b> <i>Neft to Giby Kuriakose DFO Kanyakumari</i> <i>Project</i>	Payment	2043	25,000.00	
8-3-2019	By <b>Federal Bank 3406 (Self-Financing)</b> <i>NFT/Directo/Reserve Ba KSCSTE research</i> <i>fellowship</i>	Receipt	1824		3,10,400.00
27-3-2019	To <b>Federal Bank 3406 (Self-Financing)</b> <i>Research fellowship</i>	Payment	3431	1,10,000.00	
				1,60,000.00	3,60,400.00
	To <b>Closing Balance</b>			2,00,400.00	
				<b>3,60,400.00</b>	<b>3,60,400.00</b>