

**Cornell Sathguru Foundation
for Development**

Cornell Sathguru Foundation for Development

Towards sustainable social and agriculture development



Annual report 2014-15



Cornell Sathguru Foundation
for Development

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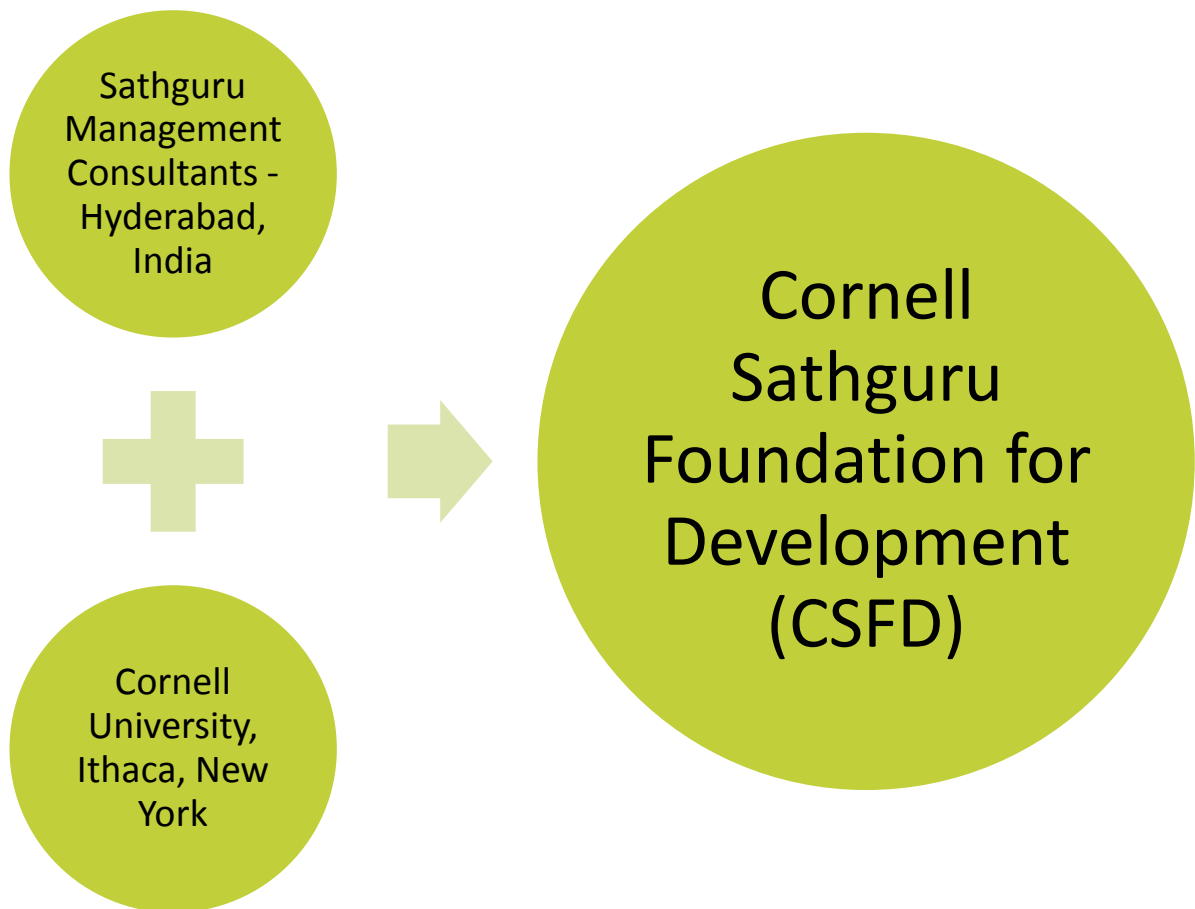
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Cornell Sathguru Foundation
for Development

About Cornell Sathguru Foundation for Development (CSFD)

CSFD is the corporate social responsibility arm of Sathguru Management Consultants, Hyderabad, established in collaboration with Cornell University, Ithaca, New York. The foundation was registered under the Andhra Pradesh Societies Registration Act 2001, India in the year 2004. CSFD was formerly known as Sathguru Foundation for Development and later was renamed as CSFD in the year 2005.



About Cornell University

Cornell University is one of the best universities in the world for Agriculture, Food Science research and Education. Cornell University is recognized as one of the model universities for interweaving liberal education and fundamental knowledge with practical education and impact on societal and world problems. At the core of the initiative is innovation in teaching and learning through shared practices that connect students, faculty and curricula with communities in the public realm across the globe.

About Sathguru

Sathguru Management Consultants, Hyderabad, India, has been in existence for over 30 years and is known globally for its expertise in science management, technology management, enterprise incubation, institutional capacity creation and policy advocacy. Over the years, Sathguru has built a very unique niche of experts with combined strength in science and technology research management and enterprise management. This has provided Sathguru the ability to excel in technology management, corporate strategy planning process and institutional capacity building. Sathguru has a wide global presence in several countries such as America, Africa, several parts of the South Asian region and the Pacific.

As a part of its international development projects, Sathguru has been promoting agricultural technologies. Sathguru was instrumental in projects such as:

- ***Agriculture Biotechnology Support Project II (ABSPII) – ABSPII*** is the flagship project of USAID with focus on biotechnology intervention for enhancing food production. The project aims at mitigating biotic and abiotic stress factors in crops and food products through genetic modification. The engagement of Sathguru's professionals stretch to other countries in the regions that are engaged in transgenic crop testing. Fruit and Shoot Borer Resistant (FSBR) Brinjal, the first genetically modified food crop in India, was developed by the consortium constituted by Sathguru under ABSPII.
- ***Durable Rust Resistance in Wheat (DRRW)***: ***DRRW*** seeks to mitigate the threat posed by wheat rusts through coordinated activities that will replace susceptible varieties with durably resistant varieties, created by accelerated multilateral plant breeding and

delivered through optimized developing country seed sectors. Sathguru coordinates collaborative efforts in rust surveillance and wheat research among the SAARC nations (the largest contiguous wheat growing region in the world) to meet the growing world demand for food.

- **Agricultural Innovation Partnership (AIP):** *AIP, funded by USAID, endeavors to increase food security and improve the quality of life in developing countries. Key objectives of the project are as follows:*
 - *Review successful agricultural extension models, launch training programs for extension specialists, resource-constrained farmers and agriculturists.*
 - *Conduct workshops to disseminate knowledge.*
 - *Promote entrepreneurship among the farmers.*
 - *Build capacity among faculty members to establish centers for agricultural extension education.*
 - *Knowledge sharing among stakeholders.*
 - *Develop innovative training models.*
 - *Facilitate faculty exchange and visits among Indian and US universities.*

- **HortCRSP:** *Bangladesh horticultural sector faces a number of critical issues that include huge post-harvest loss, lack of knowledge about Good Agricultural Practices (GAP) and Good Handling Practices (GHP), inadequate market infrastructure, and water contamination. This led to the conceptualization of a project under **HortCRSP** in Bangladesh that brings together BARI, Cornell University, University of California, Davis and Sathguru Management Consultants, where Sathguru helped in the rural development of Bangladesh.*



Vision, Mission and Key Focus Areas

Vision

Creating an enabling environment for promoting sustainable social development through life sciences and technology



Mission

To contribute towards sustainable agriculture and development by enhancing capacities, creating knowledge and promoting entrepreneurship and gender equity

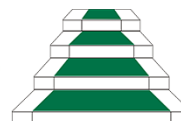


Key Focus Areas, 2016

Engaging youth in agriculture by improving access to higher education, building awareness, careers, and developing leadership. Promoting Agripreneurship.

Promoting Information and Technology for sustainable social development - training and creating awareness through eLearning especially to -

- 1) promote sustainable agricultural practices
- 2) promote community based animal workers
- 3) promote food safety
- 4) promote health and nutrition



Cornell Sathguru Foundation
for Development

Chairman's message

The Foundation continued to pursue its mission during the year with the provision of scholarship to exceptionally bright students from India, enabling them to accomplish professional success. The foundation continued to pursue partnership efforts with Indian agriculture Universities in the area of higher education and grant of scholarship for students to pursue their higher education. All the students supported by the Foundation in the earlier years have concluded their education and are pursuing research or productive employment.



During the year, the Foundation supported students and faculty from Indian State Agriculture Universities to participate in IARD 402 and 602 courses with College of Agriculture and Life Sciences (CALS), Cornell University. The Indian students and the faculty were supported to participate in a life-changing course that provided exposure to rural development issues, agriculture value chain and food marketing issues. The seven months long course brought together Indian students and US students in real field environment in India to understand and find solutions for problems in the area of crop production, nutrition, post farm value addition and gender development. This flagship program has enhanced the potential for Indian students gain productive international placement for further research or for securing productive employment within the country.

The foundation perceives the opportunity to enhance the engagement in the area of education, agriculture, nutrition and rural development with the possible support of organizations contributing to development under the aegis of Corporate Social Responsibility (CSR). The effort of the foundation will be to reach the education to needy individuals and generate new knowledge that can address problems of rural development in Indian context with active engagement of students and researchers. The foundation thanks the contribution of the academic partners, industry contributors and the faculty from Cornell University who have volunteered services for the activities pursued by the Foundation.

With best wishes,

W. Ronnie Coffman

Chairman of the Board.

CSFD contributions since 2005

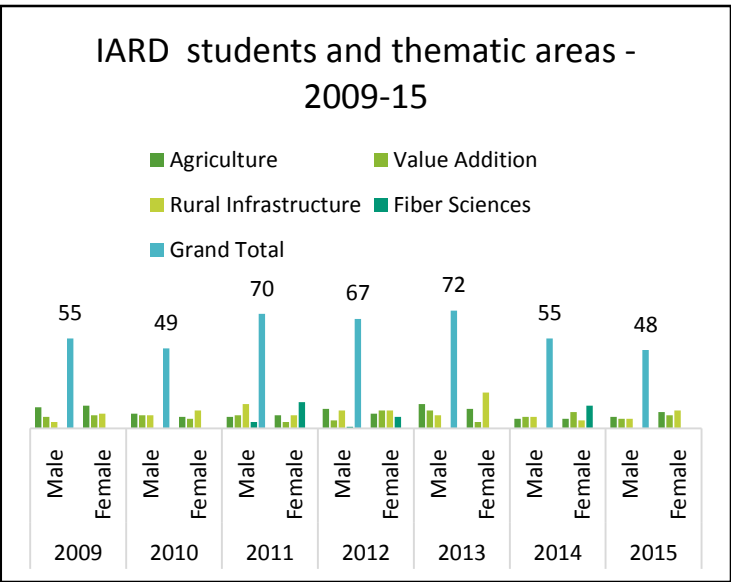
Agriculture sector in India has witnessed an unprecedented transformation and over the years agricultural production has evolved in shift tune in consumer demands and preference for finished products. Today, farming in India has becoming more complex due to world-wide social economic changes.

Given the dynamics, CSFD has been working on promoting agriculture and development through capacity building, making food safer and more nutritious, providing education on nutrition and gender equity. To actualize this, CSFD predominantly has been working towards developing the overall capacity and strengthening higher education in agriculture in India; especially in creating, nurturing and sustaining capacity within the State Agricultural Universities (SAU).

CSFD, in collaboration with Cornell University and other SAUs, has nurtured over 500 skilled human resources who are currently instrumental in generating new technologies and disseminating them to the farming community. In particular CSFD has contributed towards:

1. INTERNATIONAL AGRICULTURE AND RURAL DEVELOPMENT IARD-602 - EXPERIENTIAL LEARNING PROGRAM

The International Agriculture and Rural Development (IARD) is course offered by the College of Agricultural Sciences (CALs), Cornell University. IARD provides an opportunity of experiential learning for Indian and US agricultural students. Through the exchange program modules, students experience agricultural and rural development issues in upstate New York followed by field experience in India and finally present a group project paper. The course covers activities in class rooms, libraries, field



visits and hands-on laboratory work. This program started in the year 2002 and has so far reached more than 500 students. CSFD has facilitated 16 experiential learning visits/programs to students and the faculty to interact with experts from industry, academic institutions and policy planners. They have facilitated students to gain in-depth knowledge, as well as first hand practical

experience through field visits to various research institutes, NGOs, state agricultural universities and lectures on rural development delivered by experienced faculty and industry speakers.

The course provided Indian students a unique exposure to different cultural, educational and social practices that augment their learning and stimulate their performance. Students benefitted from resources at Cornell and visits to various industries in agri-processing sector and agriculture system. The program helped students not just in their academic endeavors but also in understanding different cultures and helped them improve their outlook towards a better career.

2. MASTER OF PROFESSIONAL STUDIES (MPS) DUAL DEGREE PROGRAM

Dual degree program was offered by Cornell's Master of Professional Studies (MPS) and State Agricultural University' (SAU's) Master of Technology (M. Tech.) programs. Through this program, the students acquired two degrees in five semesters and were trained adequately to engage in rural development that could bring sustainable gains in agriculture and rural industry through enterprise development and technology transfer. The program was initially proposed to fulfil significant unmet needs of life science professionals who could effectively combine science, technology and management knowledge and skills to benefit an industry characterized by high levels of global integration.

The degree was offered as a dual degree from Cornell University and the Tamil Nadu Agricultural University (TNAU). 13 students have graduated in year 2008 to 2011. The program was co-sponsored by Sathguru Management Consultants Private Limited and Navabhai Ratan Tata Trust (NRTT). The program supported development and implementation of two Cornell University (MPS) programs in food processing and plant breeding (Agricultural Biotechnology) respectively.

The MPS programs on food processing and plant breeding were chosen by CSFD because it fit well with issues related to the Indian government's national priority to enhance agricultural productivity and address the growing needs of the private sector. Development and implementation of the two MPS programs were the central activities of CSFD. Indian SAU students along with some faculty members had spent a semester at Cornell University taking courses and upgrading their research and teaching skills respectively. They had followed it up with course completion at their TNAU assisted by Cornell-trained faculty.

This program benefited the Indian agriculture training in the following ways:

1. In the area of food processing (value addition and markets), the MPS dual degree had exposed students to the new curricula designed to address needs of local and international industries and markets.
2. In the area of plant breeding/agricultural biotechnology, the MPS provided a new curricula with focus on appropriate trait validation, regulatory compliance, intellectual property protection and licensing, environmental risk assessment and market dissemination through outreach efforts.

Additionally, a Cornell University degree, combined with a SAU degree, had greatly enhanced both the competency and the credibility of the students. The 13 students that benefited from the first phase of the program, became the first internationally exposed graduates with the comprehensive capability to meet the needs of the private and public sectors.

3. **AGRICULTURAL INNOVATION PARTNERSHIPS (AIP) - “FEED THE FUTURE” INITIATIVE**

Under its Feed the Future initiative, United States Agency for International Development (USAID), along with Sathguru Management Consultants and its longtime partner in agriculture and life sciences development projects in South Asia, the College of Agriculture and Life Sciences at Cornell University, Ithaca, NY, established the Agricultural Innovation Partnership (AIP). This project endeavors to increase food security and improve the quality of life in the targeted regions of the Indo-Gangetic plains. Sathguru and its partners in the project will achieve this by improving agricultural education and extension systems and creating a convergence of public and private enterprises working towards ensuring prosperity in the region. The AIP initiative comprises a consortium of agricultural universities and institutes in India, land-grant universities in the US and various private enterprises involved in offering products and services to the agricultural value chain.

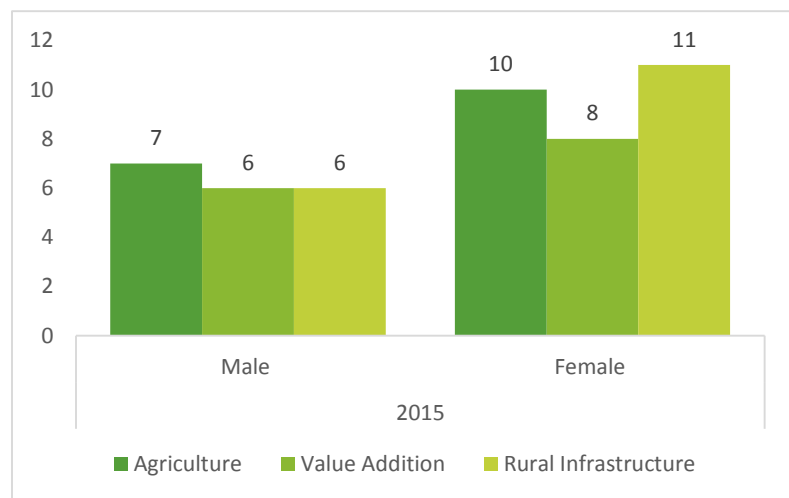
Our Initiatives 2015

INTERNATIONAL AGRICULTURE AND RURAL DEVELOPMENT IARD-602 - EXPERIENTIAL LEARNING PROGRAM

The Foundation continued to pursue its mission to provide scholarship to exceptionally bright students from India and enabling them to accomplish professional success. The foundation continued to pursue partnership efforts with Indian agriculture universities in the area of higher education.

This year CSFD had facilitated 48 students and faculty from Indian State Agriculture Universities to participate in IARD 402 and 602 courses with College of Agriculture and Life Sciences (CALS), Cornell University. The key purpose of the program was to:

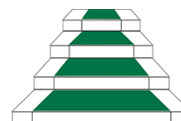
1. Build student competencies by familiarizing them with the complex, multidisciplinary and integrated nature of the world's agricultural economy and helping them acquire critical decision-making, communications and technical skills through real-life experiences.
2. Develop awareness of the global impact and integrated nature of the international agricultural economy and provide interaction among faculty and students from diverse disciplines such as agricultural sciences and production, agricultural education and extension, community development, environmental sciences and management, human nutrition, international development, plant physiology, soil and water sciences and tropical biology.



The purpose of this was actualized by enabling the students and the faculty to interact with experts from industry and academic institutions and policy planners. The students have gained an in-depth knowledge and a first-hand practical experience through field visits to various research institutes, NGOs, state agricultural universities and have attended lectures on rural development delivered by experienced faculty and industry speakers. IARD 2015 had students from Cornell University, Assam Agricultural University (AAU), Banaras Hindu University (BHU) and Tamil Nadu Agricultural University (TNAU).

IARD has had a great impact on the lives of students. It -

- has been a life-changing course that provided exposure to rural development issues, agriculture value chain and food marketing issues
- has brought together Indian students and US students in a real field environment in India to understand and find solutions for problems in the area of crop production, nutrition, post farm value addition and gender development
- is a flagship program and has enhanced the potential of Indian students to gain productive international placement for further research or for securing productive employment within the country. (See appendix for the range of institutions that students have visited)



Our Partners

Academic partners - India

1. Central Agricultural University (CAU)
2. Banaras Hindu University, (BAU) Varanasi
3. State agricultural universities
 - a. Sardar Vallabhbhai Patel University of Agriculture and Technology, (SVPUA&T) Meerut
 - b. Rajendra Agricultural University
 - c. Bihar Agricultural University (BAU)
 - d. Assam Agricultural University (AAU), Jorhat
 - e. Tamil Nadu Agricultural University (TNAU)
 - f. University of Agricultural Sciences–Dharwad
 - g. Acharya N. G. Ranga Agricultural University (ANGRAU), – Andhra Pradesh
 - h. Govind Ballabh Pant University of Agriculture Technology
 - i. Assam Agricultural University

Academic partners - International

1. Cornell University, Ithaca, New York
2. Ohio State University, Ohio
3. Tuskegee University, Alabama
4. University of California, Davis
5. University of Georgia, Athens
6. University of Illinois at Urbana-Champaign and private enterprises
7. Bangladesh Agriculture Research Council

Technical partners

1. Tata Chemicals Limited
2. John Deere
3. Sathguru Management Consultants

Funding partners

1. The United States Agency for International Development (USAID)
2. Indo-US Science and Technology Forum (IUSSTF)
3. Borlaug Global Rust Initiative – (BGRI)
4. Sathguru Management Consultants Private Limited
5. Navabhai Ratan Tata Trust (NRTT)



Cornell Sathguru Foundation
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Executive Board - CSFD



Ronnie Coffman
Chairman



K. Vijayaraghavan
Vice Chairman



Ragunathan
Secretary



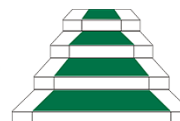
K. V. Raman
Director



Hemalatha
Director

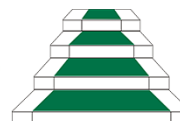


Ms. Janet McCue
Member



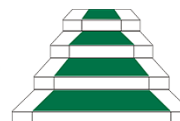
Appendix - Thematic areas and visits

Agricultural systems	
Name of institute	Purpose of the visit
Central Research Institute for Dry land Agriculture (CRIDA) www.crida.in	New techniques developed in the field of rice cultivation in India New varieties being developed for rice in India Aspects of rain fed agriculture in India Present and new technologies available and being developed in the field of rain fed agriculture in India
Monsanto Cotton Breeding Station, Kallakal, Hyderabad	Present scenario of seed industry in India Aspects of Bt industry in India Research facilities available for seed research in India Future of multinational seed companies in India Scope of GM crops in India Comparison of Indian and global seed technology
BASIX Microfinance www.basixindia.com	Present scenario of microfinance industry in India New opportunities in Indian microfinance industry
Directorate of Rice Research (DRR) www.drricar.org/	Understanding the process of testing varietal and management technologies for all rice ecosystems. Learning about basic, strategic and anticipatory research in irrigated rice aimed at enhancement of productivity and profitability while preserving environmental quality.
The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) http://www.icrisat.org/	New agri technologies developed for commercialization in India Methods and initiatives taken for commercialization of new technologies in India The modern and international level facilities available in India for crop development IPM in commercial farming Scope of agribusiness in the developing economies Research conducted in the field of agricultural genetics and biotechnology Working of institutions over the world to improve agriculture and food production
Kothapally Watershed, Hyderabad	Model of watershed development projects in India Ways adopted by farmers in community participation and development for watershed development Crop selection techniques for Watershed program Allied activities in agriculture



Tamil Nadu Agricultural University (TNAU), Coimbatore http://www.tnau.ac.in/	
Mr. Sri Ram Narayana Swamy on Tea Trade	Dynamics of tea trading in India Tea tasting
Sugarcane breeding Institute http://www.sugarcane.res.in/index.php/en/	Research being carried out on sugarcane breeding Services offered by SBI to various stakeholders
Garden land Banana Cultivation	Banana cultivation practices in wet land and garden land Micro propagation in banana IPM in banana cultivation
Progressive farmer – Mr Thiru G. Myilsamy	Sustainable ways of farming Innovations in farming at the ground level Dynamics of a farmer community – role of a progressive farmer in overall development of a village
Ganache for the Chocoholics	Belgium chocolate making Challenges in entrepreneurship in India
Horticultural Research Station, Udhagamandalam (Ooty)	Research activities undertaken in India for the production of tropical and temperate horticultural crops, medicinal plants and flowers
Earth Trust, Udhagamandalam (Ooty)	Understanding the process and impact of biodynamics or organic farming on the marginalized communities Innovative group forming techniques in agriculture and development Working of noncredit self-help groups

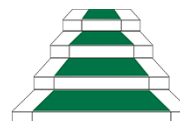
Rural infrastructure	
National Institute of Rural Development (NIRD)	Structure of rural economy in India Areas of intervention for rural development in India Government initiatives and programs for rural development Role of Public and Private Agencies in rural development in India
Tata Institute of Social Sciences (TISS)	Policies governing rural economy in India Various projects undertaken for rural development Ecosystem, environment and natural resource management
Digital Green	Agricultural extension systems in India ICT based extension model for knowledge dissemination in rural agriculture Challenges faced in adoption of ICT in Indian agriculture



Akshaya Patra Foundation (and rural school)	Unique and efficient model for implementation of 'Mid-day meal' scheme Impact of mid-day meal scheme on health and education of rural children Functioning of a rural school
Pochampally Handloom Park	Forms of traditional silk fabric in India Dynamics of silk handloom industry in Southern India
DEMIC (Domestic and Export Market Intelligence Cell):	Price forecasting system and provision of sending product quality information to selected commodities Dissemination of market intelligence through various media including SMS to the farmers
Community Radio Station (CRS):	Rural community within 20 kms radius gets benefited
Jayasree Food Products and farm visits	Social impact of marketing linkages on farmers Agribusiness Entrepreneurship in India Gender issues in farming Interaction with rural people to know about their income generating activities
Tribal Development Project	Developmental issues in tribal areas Various interventions under the tribal development project

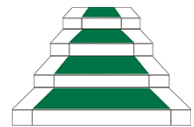
Value addition

Value addition	
Tirumala Dairy	Sourcing of milk - supply chain of milk procurement Milk processing Manufacturing process of various milk products
National Research Center for Meat (NRCM)	Latest meat processing techniques Infrastructure needed and available for various meat products Innovative value added products from meat
Rythu Bazaar – Farmers market	Marketing channels and practices for farm produce Infrastructure available for marketing farm produce in local vegetable markets Various government schemes to improve agriculture marketing
Telangana Foods	Manufacturing process of nutritious foods to school and pre-school children, pregnant women and lactating mothers Supply chain requirements for procuring raw materials and distributing finished products to the market Assistance provided in carrying out studies in the area of food nutrition
Post-Harvest Technology Centre PHTC, Coimbatore	Conducting applied and problem solving research on priority areas Multi-disciplinary team of this center is associated with carrying out need based and solution oriented projects.



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Agri Business Incubator (ABI), Directorate of Agri- Business, Coimbatore	
ABT Foods	Manufacturing process of instant mixes Glimpse of market for processed food in India
Coronet Foods	Processing of millet to make Ready to Eat foods Techniques involved in manufacturing of millet based cookies and noodles Market for millet based food products in India
Glendale Tea Factory	Process of tea manufacturing Packaging of tea Quality assurance and control in tea manufacturing followed by Glen- dale



Glimpses of CSFD





Financials 2014-2015

Cornell - Sathguru Foundation For Development
Balance sheet as on 31st March 2015

	Schedule	31-Mar-15	31-Mar-14
Rs.			
Sources of funds			
Reserves and surplus	A	6,040,766	5,307,595
TOTAL		6,040,766	5,307,595
Application of funds			
Current assets, loans and advances			
Cash and bank balances	B	5,143,720	4,828,080
Loans and advances	C	947,046	529,515
Grants pending disbursement	D	-	-
SUB- TOTAL		6,090,766	5,357,595
Less : Current liabilities			
Outstanding liabilities		50,000	50,000
SUB- TOTAL		50,000	50,000
Net current assets		6,040,766	5,307,595
TOTAL		6,040,766	5,307,595
Significant accounting policies and notes to Financial Statements	F		

The schedules referred to above and the notes thereon form an integral part of these financial statements.

In terms of our report of even date

For J. A Associates
Chartered Accountants

J. Aravamudan
Proprietor

Place : Chennai
Date :16th July 2015

For and on behalf of the Board
Cornell - Sathguru Foundation For Development

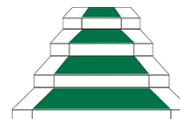
Ronnie Coffman
Chairman

K.Vijayaraghavan
Vice-chairman

K. Ragunathan
General Secretary

Hemalatha
Treasurer

Place : Hyderabad
Date :16th July 2015



Cornell Sathguru Foundation
for Development

Cornell - Sathguru Foundation For Development
Income and expenditure account for the year ended 31st March 2015

Rs.

Particulars	Schedule	31-Mar-15	31-Mar-14
Income			
Grant-in-aid/sponsored project receipts	D	1,440,000	3,331,855
Interest income		467,376	343,769
Total		1,907,376	3,675,624
Expenditure			
Project expenses	E	1,124,205	3,660,853
Administrative and general expenses		50,000	50,000
Grand total		1,174,205	3,710,853
Surplus / (deficit) for the year		733,171	(35,229)
Total		1,907,376	3,675,624
Significant accounting policies and notes to Financial Statements	F		

The schedules referred to above and the notes thereon form an integral part of these financial statements.

In terms of our report of even date

For J. A Associates

Chartered Accountants


J. Aravamudan
Proprietor

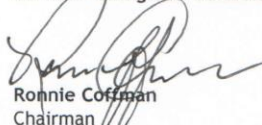


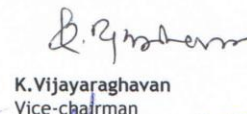
Place : Chennai

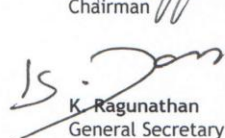
Date :16th July 2015

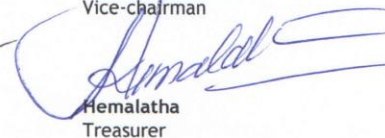
For and on behalf of the Board

Cornell - Sathguru Foundation For Development


Ronnie Coffman
Chairman


K. Vijayaraghavan
Vice-chairman


K. Ragunathan
General Secretary


Hemalatha
Treasurer

Place : Hyderabad

Date :16th July 2015



**Cornell Sathguru Foundation
for Development**

Cornell Sathguru Foundation for Development

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