

Syngenta Foundation India
Amar Paradigm S. No. 110/11/13
Baner Road, Pune, Maharashtra-411045
Kind Attn: Dr Baskar Reddy, Executive Director

September 8, 2016

Indo-Swiss Centre of Excellence Funding Application

Dear Dr Reddy,

Please find enclosed a funding application from the Indo-Swiss Centre of Excellence. Indo-Swiss Centre of Excellence (ISCE) is a Section 8 company formed under Companies Act 2013. It will have two Centres of Excellence:

- Centre of Excellence for Manufacturing (CEM) that will offer 4-year diploma courses in Polymechanics, Welding, Design and Mechatronics, as per Swiss Vocational Education and Training system, acclaimed as one of the best in the World. SkillSonics, an NSDC partner will provide the Curriculum; Train the Trainers, Examinations and Certification from Swissmem for these courses.
- Centre of Excellence in Agriculture (CEA) that will train rural youth who will support resource poor farmers to nearly double their incomes. MOU has been signed with Syngenta Foundation India to provide the curriculum, examinations and certification from Agriculture Sector Skills Council for these courses.

This project is driven by user-pull. For CEM, we have letters of commitment from Swiss companies to take in apprentices during 3rd and 4th years, take responsibility for training them and to eventually recruit them. Similarly, we have letters of commitment from agri/ agri machinery companies supporting this project and offering internships.

It addresses the following key missions of the Government:

- Skill India
- Make in India (for becoming a manufacturing nation of repute)
- Employability of rural youth
- Increasing Agri productivity
- Use of sustainable technologies (Cleantech)

In total, Indo-Swiss centre of Excellence is seeking funding of INR 5 Crores from you, requested over a three year period.

Thanking you and with best regards,
For Indo-Swiss Centre of Excellence,



S V Narasimha Rao Rallabhandi
Director
DIN 00122631



Application for Funding From Syngenta Foundation India

Applicant Name: Indo-Swiss Centre of Excellence

Chief Functionary: Mr. Narasimharao Subrahmanya Venkata Rallabhandi

Applicant Address: 3A, 3RD FLOOR, VASCON WEIKFIELD CHAMBERS, NAGAR ROAD, PUNE, Pune, Maharashtra, India, 411014

CIN: U80102PN2016NPL164448

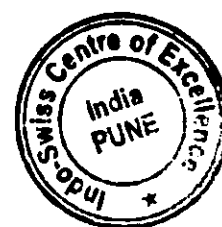
Project Overview

- Fully equipped Training Centre to be set up on outskirts of Pune – land available at nominal lease
- Project for providing high-quality training for manufacturing trades and agriculture workers
- Will train 13,700 students over 10 years
- Total project cost: Rs. 46 crore over three years
- Student fees projected: Rs. 15 crore
- Break-even expected end of year 3
- Grants / loans under negotiation: Rs.27.5 crore
- Grant sought from Syngenta Foundation: Rs. 5 crore over 3 years

A. Introduction

Indo-Swiss Centre of Excellence (ISCE)

- ISCE is a Not for Profit organisation registered under section 8 of the Companies Act 2013.
- The vision of the organisation is to impart highest standards of Skills training, producing a workforce that will produce and live Swiss Quality by applying methodology of Swiss Vocational Education System (Swiss VET).
- The Swiss VET is acclaimed as one of the best in the World. The dual track system places significant emphasis on hands-on working in companies, with industry framing the curriculum, qualification standards and examinations. Swiss VET offers multi-skilled courses along with soft skills training.
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- Gherzi Engineering, Prof. Bruno Keller and BEEP for designing the low energy building (including radiation cooling and high insulation)
- Cleantech Switzerland and Switzerland Global Enterprise (SGE) in incorporating Clean/ Energy efficient technologies

B. Background and Proposed Programme

Centre of Excellence for Manufacturing

a) Background

Indian economy is set to grow at 6 to 8 % in the next few years. The share of manufacturing sector in the GDP which is stagnant at 15% is expected to grow significantly. The Government of India is promoting manufacturing sector in a big way through various policy initiatives like 'Make in India'. Government of India has ambitious plans for skilling India. An independent ministry is set up for Skills Development and Entrepreneurship. Many of the State Governments are also focussing on Skills Development. Indian Government has also embarked on a massive mission to reach 24 x 7 energy supply goal while also meeting its commitments at the Paris Climate summit. It is focussing on low energy LED lighting, solar energy (100 GW by 2022) and cutting Transmission & Distribution losses. Cleantech Switzerland has innovative low energy solutions like radiation cooling (to eliminate air conditioning, which is a necessity in India), high insulation, etc. These technologies can help in reducing India's energy needs in a significant way.

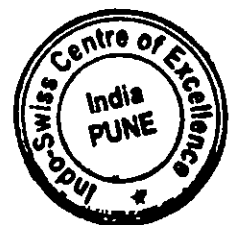
Pune is a major industrial city with a large presence of Engineering and Automotive industry (over 3,000 companies). There are 40 Swiss companies, over 120 German companies, Swedish, Italian and other MNCs, all of them need skilled workforce and appreciate the quality of Swiss VET. Pune is also the 3rd largest IT centre in India and a base for Robotics, etc. Many of these companies also need highly skilled workforce in the specializations proposed like Polymechanics, Designers, Welders and Mechatronics graduates

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b) Proposed Programme

CEM will offer 4-year diplomas in Polymechanics, Mechatronics, Welding and Drafting. In addition it will also offer Train the Trainers program and need based Short term courses for up-skilling already employed people.

The 4-year courses will be as per Swiss VET curriculum and using contemporary equipment, teaching aids and methodology.



The 4-year courses will have an intake of 24 students per batch, run in two shifts. Thus there will be 192 students in the first year, rising to 768 students in the 4th year.

Aspiring students should have passed 10th standard with a minimum of 60% marks in Mathematics. Candidates will be selected through an entrance examination (tie up with an existing institute will be explored for selection).

Course fees per year will be INR 105,000. In addition, students will have to pay refundable deposit of INR 10,000 each and non-refundable amount of INR 22,500 towards uniform, etc. Some of the partner companies will offer scholarships to deserving students. Students will also get subsidy under Pradhan Mantri Kaushal Vikas Yojana (PMKVY).

During the first 2 years, students will spend 3 days on practical training and 2 days on theory, both in the institute. In the 3rd and 4th years, students will be working at participating companies for 4 days and attend the institute for 1 day for theory. Companies will pay stipend to the Apprentices during 3rd and 4th years (proposed - INR 10,000 per month).

Successful graduates can expect to get placed among participating companies subject to fulfilling their recruitment process. Most of these companies have policies for higher education through which the students can aspire to grow. Considering the brand value of Swiss VET system, many of the graduates may also get overseas employment opportunities. The institute will also encourage Entrepreneurship through an Incubation centre.

The institute is expected to have 18 teachers, 18 mentors and 6 administrative staff. The Teachers will be at par with Polytechnics and will be carefully chosen for competence, hands on experience, passion and commitment to skills development. Instructors will be chosen from experienced operators/ hands-on technicians. All of them will undergo "Train the Trainers" program at SkillSonics.

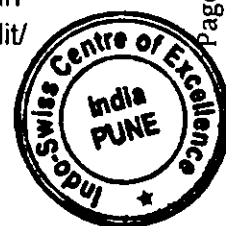
Centre of Excellence for Agriculture

a) Background

Nearly two thirds of the workforce in India is dependent on Agriculture. Despite being endowed with fertile land and vast network of rivers, with marginal farming and lack of education, productivity in agriculture is low. Precision agriculture is bound to gain momentum in India in the coming years; it will require skilled manpower to provide services to small and marginal farmers. Some of these new technologies could be demonstrated at the Centre, where large number of farmers could visit to understand and familiarize themselves with these technologies. Government of India has announced plans and allocation of funds for improving agricultural productivity and for doubling the incomes of the farmers.

A majority of rural youth are school dropouts and lack access to quality livelihood. Government has announced plans and allocation of funds for improving employability of rural youth under Deendayal Upadhyay Grameen Krishi Yojana (DDU-GKY). Pune is in the midst of agricultural region known for cultivation of sugar cane, onions, corn, millets, grapes, vegetables, etc. While most of the area is irrigated by rivers, there are also drought prone areas.

To help farmers to improve their incomes, there is need for trained manpower that can assist them with knowledge in agronomy, crop protection, agriculture marketing, credit/



financial linkages and seed production management. They will also get training in Drip Irrigation, Nursery management, Soil testing and operation & maintenance of Power tillers and Diesel/ electrical pump sets.

There are a number of agriculture institutes in India, where human resources are trained for agriculture and in many cases, with specializations in particular sub-subjects of agriculture. Most of these graduates and post graduates tend to serve as scientists or in the private sector at managerial positions. It is difficult to find committed people willing to stay-put in villages and handhold farmers from seeds to markets. It is in this context that a 'new cadre' has to be developed, who are from rural India and are willing to work in their own villages. There is thus a need for training school dropouts from rural areas who can work in their own villages helping needy farmers or by becoming entrepreneurs. Centre of Excellence in Agriculture could seize this opportunity for training and developing this new cadre in agriculture. Centre of excellence has the objective of developing a vibrant rural work force for servicing small and marginal farmers.

b) Proposed Programme

CEM will offer 3 month courses for Agri Tech Assistant and 6 week courses for Agri Entrepreneurs as flagship courses. It will also offer specialized courses in Drip & Sprinkler technicians, Soil Testing & Analysis, Nursery Management, Tractor Management, Post-Harvest Management as well as Short Term courses.

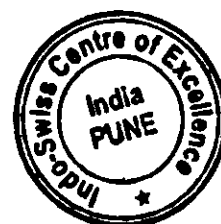
The courses will be offered by Syngenta foundation based on their successful model implemented in other parts of India. Syngenta Foundation India (SFI) has been promoting sustainable agriculture by helping resource-poor farmers apply improved farming technologies. Several thousand small farmers have increased their farm productivity and as a result shifted from subsistence to prosperity. SFI has been successfully implementing market-led extension (MLE) in vegetables in 5 project locations.

Agri Tech Assistant course will have an intake of 30 students while all other courses will have intake of 25 students. Rural youth that have passed or even failed Class 10 examination and are currently unemployed or in agriculture could be identified and trained to become agri-entrepreneurs and Agri Tech assistants. Selection will be based on Syngenta criteria.

Course fees for Agri Entrepreneur will be INR 30,000, for Agri Tech Assistant it will be INR 24,000 and for other courses, INR 10,000. Students will get a subsidy of INR 8,000 from Agriculture Sector Skill Council on successful completion. As the students come from disadvantaged background, the course fees are significantly lower than market rates as well as actual costs incurred by ISCE.

Students will get to work hands on, in the in-house farm as well as at nearby farms in Pune district. On successful completion of the courses, most of the students will become entrepreneurs in their native villages and help farmers to improve their incomes. Some of them may even be employed by companies working in agriculture sector.

The institute is expected to have 1 senior faculty and 1 junior faculty members. They will be supported by a farm manager and 1 staff member. Guest faculty will be drawn from



Syngenta as well as from college of Agriculture, Jain Irrigation, John Deere India, Deepak Fertilizers, etc.

C. Expected Outcomes

Particulars	Outcomes
Number of people to be trained in the next 10 years	Manufacturing (CEM) – 3,684 (+576 in process); Agriculture (CEA) – 10,060; Total – 13,744
Potential to format and/or self-employment in the geographical area where the training programmes are proposed	Entrepreneurship will be encouraged among students of CEM. However, most of the students will get employed in Swiss/ German companies. Many of the students of Agri centre will go back to villages and be self-employed.
Provide list of discrete stakeholders in the society getting benefitted by the proposed training programmes	For CEM, students who have passed Standard 10 for with over 60% marks. For CEA, students from rural areas who have passed Standard 10.
Details of the soft/ intangible benefits to the identified stakeholders due to the proposed training in the identified geographical areas where the training programmes are proposed.	CEM – students will be multi-skilled and trained to skill levels comparable to the best in the world. Students would be able to win medals at World Skills. CEA – students will help resource poor farmers to improve productivity and income levels.
Expected salary levels to the trainees at the end of the programmes	CEM – Rs. 200,000 p.a. CEA – Rs. 120,000 p.a.
In case of self-employment, likely increase in monthly earnings after training (Rs./month)	CEA Rs. 120,000 p.a.
Guaranteed placement percentage (including self- employment)	CEM – considering the small number of students being trained and with commitment from Swiss companies, we expect most of the students to be employed. CEA – more than 70%

D. Infrastructure

a) Location

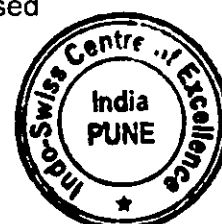
Malhotra Weikfield Foundation has offered about 5 acres of land at village Koregaon Bhima adjoining the Pune – Ahmednagar road. They have offered to fund the building cost up to INR 5 crores and offer them for a nominal lease rent as part of their Social Responsibility initiative.

b) Building and Workshop Areas

Please refer schedule 1 for details of building and workshop areas

c) Equipment, facilities and teaching aids

Please refer schedule 2 for list of equipment, facilities and teaching aids proposed



E. Financials

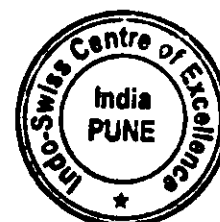
The total budget for the Project is around 46 crore for three financial years.

	Year 1	Year 2	Year 3	Total
Required:				
Fixed assets & capital items	23,13,23,306	2,01,96,760	-	25,15,20,066
Human Resource	1,77,74,000	3,04,41,400	3,34,85,540	8,17,00,940
Operating Expenses	1,69,67,507	2,55,35,425	2,99,84,353	7,24,87,284
Financial Expenses	48,75,000	74,25,000	80,62,500	2,03,62,500
Working Capital	1,19,30,187	76,21,415	1,85,77,607	3,81,29,210
Total	28,28,70,000	9,12,20,000	9,01,10,000	46,42,00,000
Sources:				
Student Fees	2,53,70,000	5,12,20,000	7,26,10,000	14,92,00,000
NSDC Loan	9,75,00,000	3,00,00,000	1,75,00,000	14,50,00,000
Grant from Weikfield	5,00,00,000	-	-	5,00,00,000
Grant from Syngenta Foundation	5,00,00,000	-	-	5,00,00,000
Grant From Burckhardt Compression (India) Pvt. Ltd.	2,00,00,000	-	-	2,00,00,000
Grant from Sulzer India Private Limited	1,00,00,000	-	-	1,00,00,000
Other donors	3,00,00,000	1,00,00,000		4,00,00,000
Total	28,28,70,000	9,12,20,000	9,01,10,000	46,42,00,000

F. Commitment Sought

Total Project funding from FCRA sources is Rs. 12 crore. Of this, commitment is hereby sought from Syngenta Foundation India for an amount of INR 5 Crore for the Project as under. Specifications / details of assets / equipment are subject to change according to availability / suitability at the time of procurement:

Budget Item	Syngenta Foundation	Burckhardt	Sulzer India	Others	Total
CAPEX:					
Workshop and Lab Equipment	2,71,29,550	1,99,50,400	99,96,100	3,90,60,104	9,61,36,154
Computers, IT hardware & Software	44,60,028	-	-	-	44,60,028
Furniture & Fixture	57,76,043	49,600	3,900	4,33,557	62,63,100
Operating Expenses:					
Personnel & Faculty	94,84,595	-	-	-	94,84,595
Content Development Costs	14,99,784	-	-	-	14,99,784
Other Operating Expenses	16,50,000	-	-	5,00,000	21,50,000
Total	5,00,00,000	2,00,00,000	1,00,00,000	3,99,93,661	11,99,93,661



Schedule 1: Building and Workshop areas

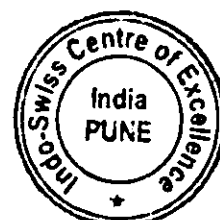
Rooms	Quantity	m2	Total m2
Class Rooms	5+2	60	420
Teachers Room	1+1	60	120
Meeting room/ Guest faculty room	1	60	60
Basic training Turning	1	150	150
Basic training Milling	1	150	150
Assembly & bench work	1	80	80
CAD	1	60	60
Polymechanics 2nd year	1	300	300
Welding general	1	250	250
Mechatronics general	1	110	110
Warehouse for Material	1	50	50
Tool Store	1	60	60
Theory Room	Flexible	255	255
Mentor Room	1	55	55
Assembly Hall	1	250	250
Canteen	1	150	150
Principal Cabin	1	20	20
Reception	1	20	20
Agri lab	1	150	150
Library & e-learning	1+1	80	160
Total			2,870

Notes:

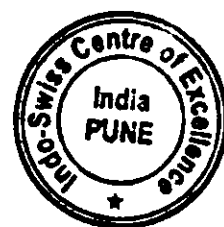
1. Centre of Agriculture will have a Farm shed and Green/ Poly house

Schedule 2: List of Key Equipment and Facilities

Specifications		FY 2017-18	FY 2018-19
Drilling machines	32 mm drill size	4	-
Conv. Lathes	200 mm Swing x 1,000 mm between centers	8	2
Conv. Milling machines	X axis-800mm Y axis-230mm, Z axis-400mm	8	2
CNC Turning centers	Turning dia 140 mm x 200mm between centers. Tools shank size 20x20. PLC Fanuc.	-	4
CNC Machining centers	X axis - 500mm Y axis - 400mm Z axis - 350mm Table size -800x400. CNC OiMate MD. PLC Fanuc	-	4
Band saw	210dia Double column, 20 mtr to 100 mtr /min cutting speed	1	-



Specifications		FY 2017-18	FY 2018 -19
Guillotine shear	2,100mm wide x 6mm thk CS. Cybelec Controller	1	-
Bending machine	1,270 mm length x 6mm thk Hydraulic. Daelem Controller	1	-
Welding shop	INVA Arc -400 (8 nos), INVA MIG -400 (3 nos), MEGA Arc -300, (REHM -1 No), INVA MIG -500 (1 No, INVA Mig -400 DC, 3 nos), INVA TIG -300, AC/DC, 2 nos, Welding Stimulator -1 NO, Gas Welding sets with cables etc, 18 nos	1	-
Mechatronics lab	Pneumatic trg kit, Electro-pneumatic trg kit, Hydraulic trg kit (2), PLC training kits (2), All types of motors (2 sets), all actuators kits (2), VFD kits (2), motion controllers (2 kits), Robotics (1 set), tables, stools	1	-
CNC simulator	Fanuc Controller Oi mate MD + Fanuc NC Guide Software, including table and stool	1	-
Bench & hand tools	Drills, grinders, tool sharpening, hand tools	1	-
Tool cabinets		16	-
Tool tables	5-6 drawer	4	-
Assembly tables	2 persons	4	-
Air compressor	124 CFM screw compressor	1	-
Transformer	22/0.433 kV, 500 kVA with OLTC	1	-
DG set	500KVA	1	-
Electrical installation	Turnkey including Metering station, Distribution panels, cabling, UPS, Power bank, lighting, etc	1	-
Agri centre equipment	Poly house, farm equipment		
CAD stations		12	-
Computers		30	-
Server		1	-
Printers	Multi-function A3 network printers (2), Color A4 local (4), Network printers (6)		
Projectors		10	-





INDO-SWISS

CENTRE OF EXCELLENCE

Burckhardt Compression (India) Pvt. Ltd
Gate no. 304, Village Kondhapuri,
Pune- Nagar Road, Taluka Shirur,
Dist Pune- 4120209
Kind Attn: Mr Milind Wagle, Managing Director

September 8, 2016

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Application for Funding From Burckhardt Compression (India) Pvt. Ltd

Foundation India

Applicant Name: Indo-Swiss Centre of Excellence

Chief Functionary: Mr. Narasimharao Subrahmanya Venkata Rallabhandi

Applicant Address: 3A, 3RD FLOOR, VASCON WEIKFIELD CHAMBERS, NAGAR ROAD, PUNE, Pune, Maharashtra, India, 411014

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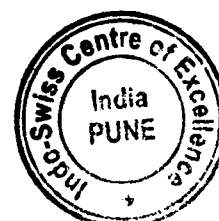
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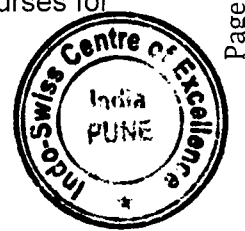
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Successful graduates can expect to get placed among participating companies subject to fulfilling their recruitment process. Most of these companies have policies for higher education through which the students can aspire to grow. Considering the brand value of Swiss VET system, many of the graduates may also get overseas employment opportunities. The institute will also encourage Entrepreneurship through an Incubation centre.

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Centre of Excellence for Agriculture

a) Background

Nearly two thirds of the workforce in India is dependent on Agriculture. Despite being endowed with fertile land and vast network of rivers, with marginal farming and lack of education, productivity in agriculture is low. Precision agriculture is bound to gain momentum in India in the coming years; it will require skilled manpower to provide services to small and marginal farmers. Some of these new technologies could be demonstrated at the Centre, where large number of farmers could visit to understand and familiarize themselves with these technologies. Government of India has announced plans and allocation of funds for improving agricultural productivity and for doubling the incomes of the farmers.

A majority of rural youth are school dropouts and lack access to quality livelihood. Government has announced plans and allocation of funds for improving employability of rural youth under Deendayal Upadhyay Grameen Krishi Yojana (DDU-GKY). Pune is in the midst of agricultural region known for cultivation of sugar cane, onions, corn, millets, grapes, vegetables, etc. While most of the area is irrigated by rivers, there are also drought prone areas.



To help farmers to improve their incomes, there is need for trained manpower that can assist them with knowledge in agronomy, crop protection, agriculture marketing, credit/ financial linkages and seed production management. They will also get training in Drip Irrigation, Nursery management, Soil testing and operation & maintenance of Power tillers and Diesel/ electrical pump sets.

There are a number of agriculture institutes in India, where human resources are trained for agriculture and in many cases, with specializations in particular sub-subjects of agriculture. Most of these graduates and post graduates tend to serve as scientists or in the private sector at managerial positions. It is difficult to find committed people willing to stay-put in villages and handhold farmers from seeds to markets. It is in this context that a 'new cadre' has to be developed, who are from rural India and are willing to work in their own villages. There is thus a need for training school dropouts from rural areas who can work in their own villages helping needy farmers or by becoming entrepreneurs. Centre of Excellence in Agriculture could seize this opportunity for training and developing this new cadre in agriculture. Centre of excellence has the objective of developing a vibrant rural work force for servicing small and marginal farmers.

b) Proposed Programme

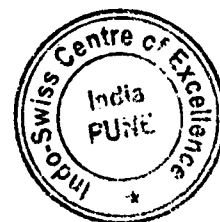
CEM will offer 3 month courses for Agri Tech Assistant and 6 week courses for Agri Entrepreneurs as flagship courses. It will also offer specialized courses in Drip & Sprinkler technicians, Soil Testing & Analysis, Nursery Management, Tractor Management, Post-Harvest Management as well as Short Term courses.

The courses will be offered by Syngenta Foundation based on their successful model implemented in other parts of India. Syngenta Foundation has been promoting sustainable agriculture by helping resource-poor farmers apply improved farming technologies. Several thousand small farmers have increased their farm productivity and as a result shifted from subsistence to prosperity. SFI has been successfully implementing market-led extension (MLE) in vegetables in 5 project locations.

Agri Tech Assistant course will have an intake of 30 students while all other courses will have intake of 25 students. Rural youth that have passed or even failed Class 10 examination and are currently unemployed or in agriculture could be identified and trained to become agri-entrepreneurs and Agri Tech assistants. Selection will be based on Syngenta Foundation criteria.

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C. Expected Outcomes

Particulars	Outcomes
Number of people to be trained in the next 10 years	Manufacturing (CEM) – 3,684 (+576 in process); Agriculture (CEA) – 10,060; Total – 13,744
Potential to format and/or self-employment in the geographical area where the training programmes are proposed	Entrepreneurship will be encouraged among students of CEM. However, most of the students will get employed in Swiss/ German companies. Many of the students of Agri centre will go back to villages and be self-employed.
Provide list of discrete stakeholders in the society getting benefitted by the proposed training programmes	For CEM, students who have passed Standard 10 for with over 60% marks. For CEA, students from rural areas who have passed Standard 10.
Details of the soft/ intangible benefits to the identified stakeholders due to the proposed training in the identified geographical areas where the training programmes are proposed.	CEM – students will be multi-skilled and trained to skill levels comparable to the best in the world. Students would be able to win medals at World Skills. CEA – students will help resource poor farmers to improve productivity and income levels.
Expected salary levels to the trainees at the end of the programmes	CEM – Rs. 200,000 p.a. CEA – Rs. 120,000 p.a.
In case of self-employment, likely increase in monthly earnings after training (Rs./month)	CEA – Rs. 120,000 p.a.
Guaranteed placement percentage (including self- employment)	CEM – considering the small number of students being trained and with commitment from Swiss companies, we expect most of the students to be employed. CEA – more than 70%

D. Infrastructure

a) Location

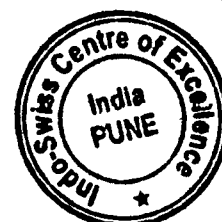
Malhotra Weikfield Foundation has offered about 5 acres of land at village Koregaon Bhima adjoining the Pune – Ahmednagar road. They have offered to fund the building cost up to INR 2 crores and offer them for a nominal lease rent as part of their Social Responsibility initiative.

b) Building and Workshop Areas

Please refer schedule 1 for details of building and workshop areas

c) Equipment, facilities and teaching aids

Please refer schedule 2 for list of equipment, facilities and teaching aids proposed



E. Financials

a) Budget

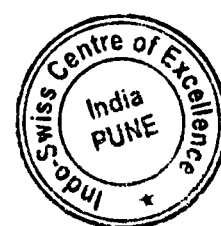
The total budget for the Project is around 46 crore for three financial years:

	Year 1	Year 2	Year 3	Total
Required:				
Fixed assets & capital items	23,13,23,306	2,01,96,760	-	25,15,20,066
Human Resource	1,77,74,000	3,04,41,400	3,34,85,540	8,17,00,940
Operating Expenses	1,69,67,507	2,55,35,425	2,99,84,353	7,24,87,284
Financial Expenses	48,75,000	74,25,000	80,62,500	2,03,62,500
Working Capital	1,19,30,187	76,21,415	1,85,77,607	3,81,29,210
Total	28,28,70,000	9,12,20,000	9,01,10,000	46,42,00,000
Sources:				
Student Fees	2,53,70,000	5,12,20,000	7,26,10,000	14,92,00,000
NSDC Loan	9,75,00,000	3,00,00,000	1,75,00,000	14,50,00,000
Grant from Weikfield	5,00,00,000	-	-	5,00,00,000
Grant from Syngenta Foundation	5,00,00,000	-	-	5,00,00,000
Grant From Burckhardt Compression (India) Pvt. Ltd.	2,00,00,000	-	-	2,00,00,000
Grant from Sulzer India Private Limited	1,00,00,000	-	-	1,00,00,000
Other donors	3,00,00,000	1,00,00,000	-	4,00,00,000
Total	28,28,70,000	9,12,20,000	9,01,10,000	46,42,00,000

F. Commitment Sought

Total Project funding from FCRA sources is Rs. 12 crore. Of this, commitment is hereby sought from Burckhardt Compression (India) Pvt Ltd for an amount of INR 2 Crore for the Project as under. Specifications / details of assets / equipment are subject to change according to availability / suitability at the time of procurement:

Budget Item	Syngenta Foundation	Burckhardt	Sulzer India	Others	Total
CAPEX:					
Workshop and Lab Equipment	2,71,29,550	1,99,50,400	99,96,100	3,90,60,104	9,61,36,154
Computers, IT hardware & Software	44,60,028	-	-	-	44,60,028
Furniture & Fixture	57,76,043	49,600	3,900	4,33,557	62,63,100
Operating Expenses:					
Personnel & Faculty	94,84,595	-	-	-	94,84,595
Content Development Costs	14,99,784	-	-	-	14,99,784
Other Operating Expenses	16,50,000	-	-	5,00,000	21,50,000
Total	5,00,00,000	2,00,00,000	1,00,00,000	3,99,93,661	11,99,93,661



Schedule 1: Building and Workshop areas

Rooms	Quantity	m2	Total m2
Class Rooms	5+2	60	420
Teachers Room	1+1	60	120
Meeting room/ Guest faculty room	1	60	60
Basic training Turning	1	150	150
Basic training Milling	1	150	150
Assembly & bench work	1	80	80
CAD	1	60	60
Polymechanics 2nd year	1	300	300
Welding general	1	250	250
Mechatronics general	1	110	110
Warehouse for Material	1	50	50
Tool Store	1	60	60
Theory Room	Flexible	255	255
Mentor Room	1	55	55
Assembly Hall	1	250	250
Canteen	1	150	150
Principal Cabin	1	20	20
Reception	1	20	20
Agri lab	1	150	150
Library & e-learning	1+1	80	160
Total			2,870

Notes:

1. Centre of Agriculture will have a Farm shed and Green/ Poly house

Schedule 2: List of Key Equipment and Facilities

Specifications		FY 2017-18	FY 2018-19
Drilling machines	32 mm drill size	4	-
Conv. Lathes	200 mm Swing x 1,000 mm between centers	8	2
Conv. Milling machines	X axis-800mm Y axis-230mm, Z axis-400mm	8	2
CNC Turning centers	Turning dia 140 mm x 200mm between centers. Tools shank size 20x20.PLC Fanuc.	-	4
CNC Machining centers	X axis - 500mm Y axis - 400mm Z axis - 350mm Table size -800x400.CNC OiMate MD. PLC Fanuc	-	4
Band saw	210dia Double column, 20 mtr to 100 mtr /min cutting speed	1	-



	Specifications	FY 2017-18	FY 2018-19
Guillotine shear	2,100mm wide x 6mm thk CS. Cybelec Controller	1	-
Bending machine	1,270 mm length x 6mm thk Hydraulic. Daelem Controller	1	-
Welding shop	INVA Arc -400 (8 nos), INVA MIG -400 (3 nos), MEGA Arc -300, (REHM -1 No), INVA MIG -500 (1 No, INVA Mig -400 DC, 3 nos), INVA TIG -300, AC/DC, 2 nos, Welding Stimulator -1 NO, Gas Welding sets with cables etc, 18 nos	1	-
Mechatronics lab	Pneumatic trg kit, Electro-pneumatic trg kit, Hydraulic trg kit (2), PLC training kits (2), All types of motors (2 sets), all actuators kits (2), VFD kits (2), motion controllers (2 kits), Robotics (1 set), tables, stools	1	-
CNC simulator	Fanuc Controller Oi mate MD + Fanuc NC Guide Software, including table and stool	1	-
Bench & hand tools	Drills, grinders, tool sharpening, hand tools	1	-
Tool cabinets		16	-
Tool tables	5-6 drawer	4	-
Assembly tables	2 persons	4	-
Air compressor	124 CFM screw compressor	1	-
Transformer	22/0.433 kV, 500 kVA with OLTC	1	-
DG set	500KVA	1	-
Electrical installation	Turnkey including Metering station, Distribution panels, cabling, UPS, Power bank, lighting, etc	1	-
Agri centre equipment	Poly house, farm equipment		
CAD stations		12	-
Computers		30	-
Server		1	-
Printers	Multi-function A3 network printers (2), Color A4 local (4), Network printers (6)		
Projectors		10	-



Sulzer India Pvt Ltd
Gate no. 304, At Kondhapuri, Tal. Shirur,
Pune, Nagar Road Pune-412209
Kind Attn: Mr B Balaji, President

September 8, 2016

Indo-Swiss Centre of Excellence Funding Application

Dear Mr. Balaji,

Please find enclosed a funding application from the Indo-Swiss Centre of Excellence. Indo-Swiss Centre of Excellence (ISCE) is a Section 8 company formed under Companies Act 2013. It will have two Centres of Excellence:

- Centre of Excellence for Manufacturing (CEM) that will offer 4-year diploma courses in Polymechanics, Welding, Design and Mechatronics, as per Swiss Vocational Education and Training system, acclaimed as one of the best in the World. SkillSonics, an NSDC partner will provide the Curriculum; Train the Trainers, Examinations and Certification from Swissmem for these courses.
- Centre of Excellence in Agriculture (CEA) that will train rural youth who will support resource poor farmers to nearly double their incomes. MOU has been signed with Syngenta India Foundation to provide the curriculum, examinations and certification from Agriculture Sector Skills Council for these courses.

This project is driven by user-pull. For CEM, we have letters of commitment from Swiss companies to take in apprentices during 3rd and 4th years, take responsibility for training them and to eventually recruit them. Similarly, we have letters of commitment from agri/ agri machinery companies supporting this project and offering internships.

It addresses the following key missions of the Government:

- Skill India
- Make in India (for becoming a manufacturing nation of repute)
- Employability of rural youth
- Increasing Agri productivity
- Use of sustainable technologies (Cleantech)

In total, Indo-Swiss centre of Excellence is seeking funding of INR 1 Crore from you, requested over a three year period.

Thanking you and with best regards,
For Indo-Swiss Centre of Excellence,



S V Narasimha Rao Rallabhandi
Director
DIN 00122631



Application for Funding From Sulzer India Pvt Ltd

Applicant Name: Indo-Swiss Centre of Excellence

Chief Functionary: Mr. Narasimharao Subrahmanya Venkata Rallabhandi

Applicant Address: 3A, 3RD FLOOR, VASCON WEIKFIELD CHAMBERS, NAGAR ROAD, PUNE, Pune, Maharashtra, India, 411014

CIN: U80102PN2016NPL164448

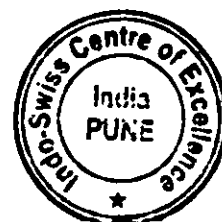
Project Overview

- Fully equipped Training Centre to be set up on outskirts of Pune – land available at nominal lease
- Project for providing high-quality training for manufacturing trades and agriculture workers
- Will train 13,700 students over 10 years
- Total project cost: Rs. 46 crore over three years
- Student fees projected: Rs. 15 crore
- Break-even expected end of year 3
- Grants / loans under negotiation: Rs.27.5 crore
- Grant sought from Sulzer India Pvt Ltd: Rs. 1 crore over 3 years

A Introduction

Indo-Swiss Centre of Excellence (ISCE)

- ISCE is a Not for Profit organisation registered under section 8 of the Companies Act 2013.
- The vision of the organisation is to impart highest standards of Skills training, producing a workforce that will produce and live Swiss Quality by applying methodology of Swiss Vocational Education System (Swiss VET).
- The Swiss VET is acclaimed as one of the best in the World. The dual track system places significant emphasis on hands-on working in companies, with industry framing the curriculum, qualification standards and examinations. Swiss VET offers multi-skilled courses along with soft skills training.
- ISCE will have two centre of excellence, Centre of Excellence for Manufacturing (CEM), offering Vocational Education at par with institutes in Switzerland and Centre of Excellence for Agriculture (CEA), supported by Syngenta Foundation.
- CEM will offer 4-year courses in Polymechanics, Mechatronics, Welding and Design. CEA will offer short term courses for Agri-Entrepreneurs, Agri-Technicians, etc.
- ISCE will be managed by 9 Directors on the board. Each centre is led by 1 Principal.
- The project is supported by:
 - AZW, Switzerland, an institute in Winterthur run on similar lines, in detailing of the Project Plan
 - SkillSonics for providing course content, training of trainers, examinations and certification from Swissmem to CEM.



- Syngenta Foundation for providing course content, examinations and certification to CEA
- Gherzi Engineering, Prof. Bruno Keller and BEEP for designing the low energy building (including radiation cooling and high insulation)
- Cleantech Switzerland and Switzerland Global Enterprise (SGE) in incorporating Clean/ Energy efficient technologies

B. Background and Proposed Programme

Centre of Excellence for Manufacturing

a) Background

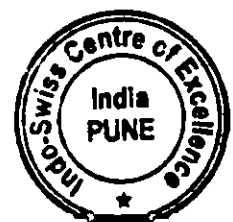
Indian economy is set to grow at 6 to 8 % in the next few years. The share of manufacturing sector in the GDP which is stagnant at 15% is expected to grow significantly. The Government of India is promoting manufacturing sector in a big way through various policy initiatives like 'Make in India'. Government of India has ambitious plans for skilling India. An independent ministry is set up for Skills Development and Entrepreneurship. Many of the State Governments are also focussing on Skills Development. Indian Government has also embarked on a massive mission to reach 24 x 7 energy supply goal while also meeting its commitments at the Paris Climate summit. It is focussing on low energy LED lighting, solar energy (100 GW by 2022) and cutting Transmission & Distribution losses. Cleantech Switzerland has innovative low energy solutions like radiation cooling (to eliminate air conditioning, which is a necessity in India), high insulation, etc. These technologies can help in reducing India's energy needs in a significant way.

Pune is a major industrial city with a large presence of Engineering and Automotive industry (over 3,000 companies). There are 40 Swiss companies, over 120 German companies, Swedish, Italian and other MNCs, all of them need skilled workforce and appreciate the quality of Swiss VET. Pune is also the 3rd largest IT centre in India and a base for Robotics, etc. Many of these companies also need highly skilled workforce in the specializations proposed like Polymechanics, Designers, Welders and Mechatronics graduates.

Currently Skills training is imparted by government owned as well as private Industrial Training Institutes. They offer trades which are not multi-skilled – e.g. Turner, Machinist, etc. and do not have any industry involvement. Typically, theory is taught for 70% of the time and practical training for 30%. Thus, companies have to retrain them after recruiting. Emphasis on overall grooming is also low. On the other hand, Polytechnics offer more technical training but no hands-on Skills training. A few new institutes are coming up offering vocational education on lines of German and other systems. There is thus a need for a World class Vocational Education Institute in Pune which will primarily cater to companies in Pune but will also offer highly trained workforce to other companies and for overseas requirements. Many of the graduates would also go on to become entrepreneurs.

b) Proposed Programme

CEM will offer 4-year diplomas in Polymechanics, Mechatronics, Welding and Drafting. In addition it will also offer Train the Trainers program and need based Short term courses for up-skilling already employed people.



The 4-year courses will be as per Swiss VET curriculum and using contemporary equipment, teaching aids and methodology.

The 4-year courses will have an intake of 24 students per batch, run in two shifts. Thus there will be 192 students in the first year, rising to 768 students in the 4th year.

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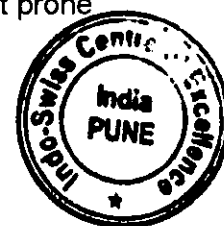
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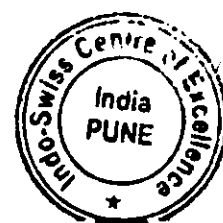
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Particulars	Outcomes
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D. Infrastructure

a) Location

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Working Capital	1,19,30,187	76,21,115	1,85,77,607	3,81,29,210

	Year 1	Year 2	Year 3	Total
Total	28,28,70,000	9,12,20,000	9,01,10,000	46,42,00,000
Sources:				
Student Fees	2,53,70,000	5,12,20,000	7,26,10,000	14,92,00,000
NSDC Loan	9,75,00,000	3,00,00,000	1,75,00,000	14,50,00,000
Grant from Weikfield	5,00,00,000	-	-	5,00,00,000
Grant from Syngenta Foundation	5,00,00,000	-	-	5,00,00,000
Grant From Burckhardt	2,00,00,000	-	-	2,00,00,000
Compression (India) Pvt. Ltd.				
Grant from Sulzer India Private Limited	1,00,00,000	-	-	1,00,00,000
Other donors	3,00,00,000	1,00,00,000		4,00,00,000
Total	28,28,70,000	9,12,20,000	9,01,10,000	46,42,00,000

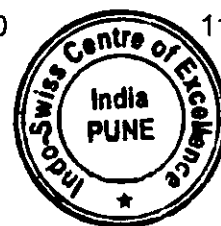
F. Commitment Sought

Total Project funding from FCRA sources is Rs. 12 crore. Of this, commitment is hereby sought from Sulzer India Pvt Ltd for an amount of INR 1 Crore for the Project as under. Specifications / details of assets / equipment are subject to change according to availability / suitability at the time of procurement:

Budget Item	Syngenta Foundation	Burckhardt	Sulzer India	Others	Total
CAPEX:					
Workshop and Lab Equipment	2,71,29,550	1,99,50,400	99,96,100	3,90,60,104	9,61,36,154
Computers, IT hardware & Software	44,60,028	-	-	-	44,60,028
Furniture & Fixture	57,76,043	49,600	3,900	4,33,557	62,63,100
Operating Expenses:					
Personnel & Faculty	94,84,595	-	-	-	94,84,595
Content Development Costs	14,99,784	-	-	-	14,99,784
Other Operating Expenses	16,50,000	-	-	5,00,000	21,50,000
Total	5,00,00,000	2,00,00,000	1,00,00,000	3,99,93,661	11,99,93,661

Schedule 1: Building and Workshop areas

Rooms	Quantity	m2	Total m2
Class Rooms	5+2	60	420
Teachers Room	1+1	60	120
Meeting room/ Guest faculty room	1	60	60
Basic training Turning	1	150	150
Basic training Milling	1	150	150
Assembly & bench work	1	80	80
CAD	1	60	60
Polymechanics 2nd year	1	300	300
Welding general	1	250	250
Mechatronics general	1	110	110



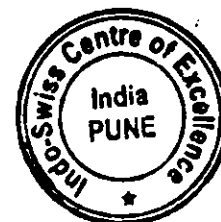
Rooms	Quantity	m2	Total m2
Warehouse for Material	1	50	50
Tool Store	1	60	60
Theory Room	Flexible	255	255
Mentor Room	1	55	55
Assembly Hall	1	250	250
Canteen	1	150	150
Principal Cabin	1	20	20
Reception	1	20	20
Agri lab	1	150	150
Library & e-learning	1+1	80	160
Total			2,870

Notes:

1. Centre of Agriculture will have a Farm shed and Green/ Poly house

Schedule 2:List of Key Equipment and Facilities

	Specifications	FY 2017-18	FY 2018-19
Drilling machines	32 mm drill size	4	-
Conv. Lathes	200 mm Swing x 1,000 mm between centers	8	2
Conv. Milling machines	X axis-800mm Y axis-230mm, Z axis-400mm	8	2
CNC Turning centers	Turning dia 140 mm x 200mm between centers. Tools shank size 20x20. PLC Fanuc.	-	4
CNC Machining centers	X axis - 500mm Y axis - 400mm Z axis - 350mm Table size -800x400.CNC OiMate MD. PLC Fanuc	-	4
Band saw	210dia Double column, 20 mtr to 100 mtr /min cutting speed	1	-
Guillotine shear	2,100mm wide x 6mm thk CS. Cybelec Controller	1	-
Bending machine	1,270 mm length x 6mm thk Hydraulic. Daelem Controller	1	-
Welding shop	INVA Arc -400 (8 nos),INVA MIG -400 (3 nos),MEGA Arc -300,(REHM -1 No),INVA MIG -500 (1 No,INVA Mig -400 DC,3 nos),INVA TIG -300, AC/DC,2 nos,Welding Stimulator -1 NO, Gas Welding sets with cables etc, 18 nos	1	-
Mechatronics lab	Pneumatic trg kit, Electro-pneumatic trg kit, Hydraulic trg kit (2), PLC training kits (2), All types of motors (2 sets), all actuators kits (2), VFD kits (2), motion	1	-



Specifications		FY 2017-18	FY 2018-19
	controllers (2 kits), Robotics (1 set), tables, stools		
CNC simulator	Fanuc Controller Oi mate MD + Fanuc NC Guide Software, including table and stool	1	-
Bench & hand tools	Drills, grinders, tool sharpening, hand tools	1	
Tool cabinets		16	-
Tool tables	5-6 drawer	4	-
Assembly tables	2 persons	4	-
Air compressor	124 CFM screw compressor	1	-
Transformer	22/0.433 kV, 500 kVA with OLTC	1	
DG set	500KVA	1	-
Electrical installation	Turnkey including Metering station, Distribution panels, cabling, UPS, Power bank, lighting, etc	1	
Agri centre equipment	Poly house, farm equipment		
CAD stations		12	-
Computers		30	-
Server		1	
Printers	Multi-function A3 network printers (2), Color A4 local (4), Network printers (6)		
Projectors		10	-

