Mechanical Engineering Department
NK Orchid Cllege of Engineering and Technology Solapur
Services Details

1. Following Data from Page No 01 to Page No 12 reflects the Services funding given by La Fondation Dassault Systems to develop 09 Products @ 37,40000/- (Thirty Seven Lakhs Fourty Thousand Rs) to develop 9 Products.

Sr. No.	Project Title	Total Amount in ₹	Project Guide
01	Solar Tree for village and remote area electricity needs	11,80,000/-	Dr.Shriniwas S.Metan
02	Solar operated Automatic Water Sprinkler System for smart agriculture	3,63,000/-	Prof.S.S.Kale
03	Solar water purifier for rural masses with zero water reject	5,00,000/-	Dr.B.K.Sonage
04	Solar DC Water Pump Prof. CVP	3,50,000/-	Prof.C.V.Papade
05	Solar Operated Milk Pasteurizing system	2,62,000/-	Prof.C.V.Papade
06	Solar Dehydration System with energy storing material for Agricultural Products	3,00,000/-	Prof.C.V.Papade
07	Solar Panel Laminating Machine	10,00,000/-	Prof.C.V.Papade
08	Solar Thermoelectric Refrigerator Prof DDB	85,000/-	Prof.D.D.Bhoge

Please go through the 2nd MoU Details Signed between Mechanicla Engineering Department of NK Orchid College of Engineering and Technology Solapur and La Fondation Dassault Systemes Pune.

100

NAME _____

ADDRESS _____

THROUGH : _____

SIGNATURE : _____

RECEIPT NO.: _____

FOR W.M.D.C. LTD.

AUTHORISED SIGNATORY

Western Maharashtra Development Corporation Ltd., 2nd Floor, Kubera Chambers, Shivajinagar, Pune 411005. D-5/STP(V)/C.R.1014/ 2360-63/04

भारत 63921 SPECIAL ADMESEVIS महाराष्ट्र
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Agreement for Contribution

This Agreement (Agreement) is made on _____ ("Effective Date")

By and between

Dassault Systemes Foundation, a Company incorporated under Section 8 of the Companies Act, 2013, and having its Registered Office at Commerz, 10th Floor, International Business Park, Oberoi Garden City, Off Western Express Highway, Goregaon East, Mumbai–400063. CIN: U72900MH2017NPL302013 | Tel: +91-22-67056001 | Fax: +91-22-67056891; represented by Mr. Sudarshan Mogasale – in his capacity as Chairman of the Board of Directors
(Hereinafter referred to as **"DS Foundation"**)

And

N K Orchid College of Engineering & Technology, Solapur, situated at Gat No.16, Solapur-Tuljapur Road, Near Mashroom Ganapati Temple, Tale-Hipparaga, Solapur 413002, established in the year 2008. N K Orchid College of Engineering & Technology, Solapur is self-financed Engineering College; registered as educational institute under Charitable Trust Act, and is represented by Dr. J. B. Dafedar in his capacity as Principal. **(Hereinafter referred to as "Partner")**

Hereinafter individually called as "Party" or collectively called as "Parties"

Whereas,

A) **Dassault Systemes Foundation** is dedicated to transforming the future of education and research with the learning and discovery capabilities of 3D technology and virtual universes. Dassault Systemes Foundation supports projects in India to bring about transformation in Education and Research. It is working with the objective to improve engineering skills and support innovation in Indian Academia/ Research Centres, to accelerate education transformation, to encourage scientific research, to encourage vocation for science and engineering among young people and to support education programs for Underprivileged & Specially abled citizens. Dassault Systemes Foundation will help teachers, learners and scientist to leverage the power of 3D virtual world to stretch the limits of knowledge and to invent new ways to pass on this knowledge to current and future generations of Indian thinkers, inventors, builders and leaders.

B) **N K Orchid College of Engineering & Technology, Solapur** is chartered in year 2008, with the Vision of achieving "Locally Rooted, Globally Competent Education"; N K Orchid College of Engineering & Technology ("NKOCET") started operating from the academic year 2008-09. NKOCET has emerged as a preferred knowledge destination for aspiring Engineering students. NKOCET is well equipped with the state-of-the-art infrastructure, laboratories, smart classrooms, workshop to meet today's global needs. NKOCET has highly qualified and experienced faculties who are committed to create a congenial student friendly environment. The institute NKOCET encourages the student's innovation and creativity by arranging technical competitions and national level events like ORCHITECT every year. Along with Technical skills, NKOCET provides Soft Skills training to sustain in the challenging and competitive professional world. NKOCET is known for its strong teaching-learning process which is focused on practical and real knowledge acquisition. NKOCET has given emphasis to applied projects based on industry problems.
NKOCET is has established Solar Research and Competency Development centre which is supported by Dassault Systemes Foundation.

The Partner hereby certifies to Dassault Systemes Foundation that the Partner:

- Is educational and cultural organisation registered as per applicable laws
- Pursues non-profit making aims,
- Is selflessly managed,
- Does not exist for the sole benefit of a circle of people.

Dassault Systemes Foundation wishes to support Partner's project "**Phase 2 of Solar Research Centre**" by way of donation / financial contribution, and the Parties hereto have consequently agreed to enter into this agreement. **Phase 2 of Solar Research Centre focuses on developing products for making remote areas self-sufficient in their energy requirement and energy dependent needs.**

(Hereinafter the "**Agreement**").

NOW THEREFORE THE PARTIES HERETO AGREE AS FOLLOWS:

NKOCET

Dassault Systèmes Foundation

PARTNER'S PROJECT

A team of professors and students from The N K Orchid College of Engineering & Technology (NKOCET) wishes to implement project titled **"Phase 2 of Solar Research Centre".**

Objectives of the Project:

- Elevate the Solar Research Centre to develop Solar Energy Based products for Rural Eco system, Villages, Remote areas
- Develop solar energy based products for rural eco system's benefit through engineers trained at Solar Research Centre
  - Develop Products, systems which utilise Solar Energy for products which are useful for rural Eco system, villages, farmers
  - Help remote areas / villages to be self-sufficient in electricity needs and related benefits
  - Help Small farmers for agricultural needs with green and free energy sources
  - Develop products which can reduce villagers dependency on Diesel Generation sets, thereby support sustainability objectives; and also reduce dependency on conventional energy supply systems
- Help students to be competent in Solar Energy Based product development and help them to be Future Ready

Scope of the Project

- Develop products useful to farmers, villagers and which will run on Solar Energy, Green Energy
- Range of products to be developed in this phase include:
  1. Solar Tree for villages and remote areas electricity needs
  2. Solar operated Automatic Water Sprinkler System and Drip Irrigation as smart irrigation system for smart agriculture
  3. Solar water purifier for rural masses with zero water reject
  4. Solar DC Water Pump
  5. Solar Operated Milk Pasteurizing system
  6. Solar Dehydration System with energy storing material for Agricultural Products
  7. Solar Thermoelectric Refrigerator
  8. Solar Portable Refrigeration system for remote areas
  9. Solar Panel Laminating Machine

  Annexure B includes key aspects of aforesaid products
- Develop the products using 3D Technologies, simulation and validation
- Products developed will be 'ready to use' finished products with product catalogues, usage, installation and maintenance instructions book
- Each product will be installed in the environment where those are to be used (in fields, in farms, village areas), tested and optimised for performance / eliminate identified defects
- Development of Two semester course on Solar Energy Based and Energy efficient Product Development

Deliverables of the Project

- Products developed will be 'Ready to use finished products' with product catalogues, usage-installation and maintenance instructions book

NKOCET

Dassault Systèmes Foundation

project, to Dassault Systemes Foundation and will allow Dassault Systemes Foundation to use and share it with other institutes.

(Hereinafter the "**Project**")

ARTICLE 1. PURPOSE OF THE AGREEMENT

The Parties have entered into this Agreement in order to define the terms and conditions pursuant to which Dassault Systemes Foundation is supporting the Partner within the framework of the Project by providing a financial contribution.

ARTICLE 2. FINANCIAL CONTRIBUTIONS OF THE DASSAULT SYSTEMES FOUNDATION

Dassault Systemes Foundation shall make, financial contribution of **Rs 37,40,000/-** (Rs Thirty Seven Lakh Forty Thousand)
This financial contribution made by Dassault Systemes Foundation:

1) Shall be utilized by the **Partner** solely for the purpose of the **Project** and will be used as per the break-up provided in the Application Form submitted by partner/college and such relevant extracts are annexed hereto (**refer Annexure A**)
2) **Shall not be used to purchase licenses or access rights on Dassault Systemes offerings**

Partner will provide details of the items purchased or expenses made out of the financial contributions and submit corresponding receipts or bills as applicable. In cases where such receipts cannot be furnished, the Partner shall submit suitable declaration.

Partner agrees to allow Dassault Systemes Foundation to use the facilities and contents developed by partner as part of this project; for any activities foundation wishes to carry out in future.

The contribution shall be One-time payment by Dassault Systemes Foundation, which will be made within four to six weeks from effective date of the agreement

Dassault Systemes Foundation will be allowed to audit usage of the funds provided by Dassault Systemes Foundation for the stated purpose.
The contribution amount shall appear on the receipt to be issued by the Partner no later than 30 days following the receipt of funds.

The request for funds and the tax receipt shall be addressed to:
Dassault Systemes Foundation
Hemant Gadgil
Plot No. 15/B, Pune Infotech Park,
M.I.D.C. Hinjewadi, Phase 1,
Taluka Mulshi,
Pune 411 057, India

A copy of the request for funds shall be sent at the following email address:
Hemant.Gadgil@lafondation3ds.in

NKOCET

Dassault Systemes Foundation

furnish the Licensed Materials to the Dassault Systemes Foundation upon the completion of the Project. The Partner confirms and warrants that it has all rights necessary to provide the license granted in this subsection.

ARTICLE 5. Export Control

The Parties acknowledge and agree that all cooperation between the Parties provided in this Agreement and the attendant rights and obligations shall at all times be subject to compliance with all applicable laws, regulations and administrative requirements, including without limitation, export control laws and regulations, and sanctions programs as applicable to each Party and/or their respective services. In particular, none of the Parties shall be held liable under this Agreement in the event a Party is prohibited and/or otherwise restricted from providing or delivering any type of services in order to comply with export control laws and regulations. For DS Foundation, such service shall not include anything else other than skills shared by our 3DS personnel to our partners.

Either Party may terminate or suspend the Agreement or the performance of its obligations under the Agreement, if performance of the Agreement would cause this Party to infringe any export control laws and regulations or to be potentially exposed to any sanctions or penalties by any governmental authority as a result of continued performance.
Unless provided for in a separate agreement, the parties shall not disclose or exchange any information requiring an authorization to be exported. The restriction in the foregoing sentence shall not apply to information where the authorization is required solely for export to countries subject to trade sanctions.

ARTICLE 6. SINGLE POINT OF CONTACT

Each party shall appoint their representative as a Single Point of Contact (SPOC) for better coordination between the two parties
SPOC details:

For:	**Dassault Systemes Foundation**
Name:	Hemant Gadgil
Address:	Dassault Systemes Foundation Plot No. 15/B, Pune Infotech Park, M.I.D.C, Hinjewadi Phase-I, Taluka Mulshi, Pune 411 057
Ph:	+91 (20) 6793 6600
Email id:	Hemant.Gadgil@lafondation3ds.in
For :	**N K Orchid College of Engineering and Technology, Solapur (NKOCET)**
Name:	Dr. Shriniwas S Metan
Title:	Professor & Head of Department
Department:	Mechanical Engineering
Address:	**N K Orchid College of Engineering and Technology, Solapur** Gat No.16, Solapur-Tuljapur Road, Near Mashroom Ganapati Temple, Tale-Hipparaga, Solapur 413002.
Cell Phone:	9552529283
Email id:	shrinivasmetan@orchidengg.ac.in

NKOCET

Dassault Systemes Foundation

The relevant courts of the city of Mumbai shall have jurisdiction over any matter arising out of this Agreement.

IN WITNESS WHEREOF the Parties have caused this Agreement to be executed the day and year first herein above written.

For and on behalf of **Dassault Systemes Foundation**	For and on behalf of **N K Orchid College of Engineering and Technology, Solapur**
Name: Sudarshan MOGASALE	Name: Dr. J. B. Dafedar
Designation: Chairman of Board of Directors Dassault Systemes Foundation	Designation: Principal, **N K Orchid College of Engineering and Technology**
Date: 15th December 2020	Date:

Funding is Mentioned Here

Annexure A

Financial contribution made by Dassault Systemes Foundation will be used by partner for following activities / purchase of equipment needed for the project

#	Funding as requested by partner for (Equipment, Activities)	Quantity	Indicative Price In Rs
1	Solar Energy Based Product Design, Manufacturing, Testing, Validation, Optimisation. Material cost, Equipment cost, Manufacturing cost, Testing-Validation	9 products	Rs 37,40,000/-
2	Developing application oriented learning content, DIY kits		
3	Conducting workshops and Competency development trainings for rural youths etc		
4	Assigning dedicated research scholar with solar energy competency for these projects	1	
	Total		**Rs 37,40,000/-**

Partner agrees to provide access and allow use of hardware infrastructure which will be set-up using this financial contribution to Dassault Systemes Foundation and its partners for study, learning, research purpose.

NKOCET

Dassault Systèmes Foundation

Projects Details are mentioned here

Annexure B

Key Aspects of the Solar Energy Products to be developed

1. Solar Tree for villages and remote area's electricity needs:

- Design and develop cost effective Community Based Solar Tree, which will provide electricity to the rural areas as well as remote areas, which do not have conventional electricity infrastructure.
- Generate solar electricity with fractional land occupation as compared to the conventional flat panel arrangement.
- Address challenge of scarcity of electricity in the rural areas as well as inaccessible areas.
- Develop Solar Trees as
  - Decentralized renewable energy technology as a viable solution
  - An effective option to harness larger portion of solar rays in less land space
  - Nature inspired design
  - Develop tree like layout for array of solar panels and sun tracking system to catch maximum solar energy in minimal ground space.
- 11 KWH capacity solar tree will be designed which can meet electricity requirement for 6 famer houses or 2 farmer houses and one DC powered water pump in the farm.

2. Solar operated Automatic Water Sprinkler System and Drip Irrigation as Smart Irrigation system for smart agriculture

- Develop Solar operated Water Sprinkler and Drip Irrigation system for smart agriculture
- Assist farmers to conserve water and also use the system in absence of conventional electricity supply or to reduce dependence on unreliable electricity supply through grid
- Smart Irrigation System:
  - Smart irrigation system developed will help in Conserving water, avoid Salinity of Soil and with green energy avoid air pollution
  - To avoid increase in salinity of soil due to excess amount of water (which otherwise happens in conventional water irrigation approaches)
  - Design and develop automation of water irrigation as per soli condition, moisture content in the soil.
  - System will automatically start and stop pump based on the parameters and machine-learning algorithm.
  - Project enables farmer to operate various operating parameters. Farmer will be guided about settings required through Mobile App.
  - Operations of such Smart Irrigation system can also be controlled through Mobile interface
- To develop DYMOLA libraries connecting soli parameters, water requirement for plants at different stages of plant growth. Interdisciplinary collaboration project for students
- A system will be designed for 10 Guntha (0.1 Hector) area and installed in nearby farmer's area to validate and optimise the automation parameters

3. Solar water purifier for rural masses with zero water reject

- To develop Solar Water Purifier (SWP) consisting of the elements, such as air heater, water heater, evaporator and condenser.
- Develop effective means of water purification system for villages / communities / resorts in remote places.
- To design and develop solar water purifier to generate drinkable water from raw water with 200 liters/day capacity
- To install such a system in village area which is suffering from drinkable water availability; test the develop SWP for performance in the field and optimize the product

4. Solar DC Water Pump

- To design and develop indigenized 5 HP DC motor to operate pump using solar energy for lifting the water, which is helpful for agriculture sector, domestic application and many other field.
- In absence of reliable and accessible electricity, many farmers run the pumps using diesel generators, which impacts environment and adds to the cost
- Farmers will benefit from having Solar Powered DC water pumps, which gives tremendous flexibility to them.
  - Aim is to operate pumps directly using Solar Energy while pump is running during daytime. When pump is not running, it will charge the battery, which can be used during evening/night hours or other purposes.
  - System to run pump continuously for 4 hours on direct solar energy.
  - Develop 5 HP Solar powered pump to irrigate 5 acres
  - Project aims to design DC motor indigenously and make it low cost.
- Scope includes: Design of entire solar power system, including controllers, solar panels, battery

5. Solar Operated Milk Pasteurizing system

- To design and develop a solar operated milk pasteurization system with 100 liters/day pasteurization capacity, which can be set-up and used by farmers in their farms.
- Pasteurization process involves heating milk to around 72 Degrees Centigrade and suddenly cooling to 4 Degrees in 30-40 minutes to ensure harmful bacteria are destroyed.
- Compact and specialized heat exchanger will be designed which will also facilitate faster cooling

6. Solar Dehydration System with energy storing material for Agricultural Products

- To design and develop IOT based solar dehydration system with energy storing material for agricultural products.
- Solar dehydration system designed for drying agriculture products such as onion, potato, spinach, chili, grapes and so on.
- Preservation of agri products (fruits, vegetables) is major challenge faced by small farmers.

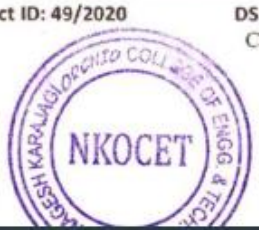
- There is a huge need to preserve their produce for a long time without further deterioration in quality.
- Project aims to design solar dehydration system for drying agri products such as onion, potato, spinach, chili, grapes, with a capacity 100 kg per day.
- Project aim is also to reduce the drying time and increase the productivity of agricultural products
- Uniqueness of design:
    - Use of phase change material for storing the solar energy so that system can be used in the evening and night time
    - To dry the products in day and night time
    - Infrared radiation will also be used for drying purpose
    - Solar dehydration is designed to make it affordable for farmers
    - It will be a big help for farmers to preserve their produce for long

7. Solar Thermoelectric Refrigerator

- Villages, remote areas need refrigerators for storing medicines, food items, have cool water to ease the life in hot weather conditions. Having a refrigeration system working on natural energy source is very significant for areas, which are not provided electricity through conventional electricity through grids.
- Environment friendly refrigerators (which do not use refrigerant coolants) and can operate with natural energy sources is a boon for such regions.
- The aim is to develop Solar Thermoelectric Refrigerator:
    - Working on Solar Energy and which uses thermoelectric systems.
    - Having capacity of 30 liters and can reduce temperature by 10^0 C with respect to atmosphere temperature.
    - After achieving desired temperature, less amount of power (electricity) is required to maintain the temperature. Excess amount of electricity will be used for other application like lighting, mobile charging etc.
    - Thermoelectric Refrigeration system does not use any refrigerants so it is environment eco-friendly.
    - Light in weight, portable and small in size.
    - No moving parts and silent in operation
    - It can be used during travelling.

8. Solar Portable Refrigeration system for remote areas

- Design and development of Reliable Portable Refrigeration System for Vaccine Distribution or storing medicines at Remote Location, which operates on Solar Energy
- To maintain the temperature precisely between 2°C to 8°C by using Thermoelectric Technology
- To achieve battery backup upto16 hours operation. Batteries are charged using Solar Energy
- Refrigerator will be Low Cost and Low Weight with about 2 litre of capacity, with a simple compact design and easy to manufacture.
- Electrical and Electronics Systems to have IoT and ML Controlling



9. Solar Panel Laminating Machine

- Lamination of solar panels protects and ensures designed life of Solar Panels.
- Conventional machines available in market are for 100 W capacity and are very costly and unaffordable for lamination of smaller solar panels.
- The aim is to design and develop a compact solar panel laminating machine to laminate solar panels ranging from 3 W to 100 W power.
- Machine to use Solar Power for its operation.
- Design and develop a compact size solar panel laminating machine
- IOT operated pressure and temperature handling with a smartphone.
- The lamination machine developed will be useful and economical for manufacturer of small size solar panels

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2. Following Data from Page No 13 to Page No 19 reflects the Services funding given by La Fondation Dassault Systems to develop 02 Products Solar Car (450000/-) and Solar Dryer (550000/-) total @ 10,00000/- (Ten Lakhs Fourty Thousand Rs)

Please go through the 1st MoU Details Signed between Mechanicla Engineering Department of NK Orchid College of Engineering and Technology Solapur and La Fondation Dassault Systemes Pune.

भारतीय गैर न्यायिक
भारत INDIA
रु. 500 FIVE HUNDRED RUPEES
पाँच सौ रुपये Rs. 500
सत्यमेव जयते
INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA 2018 AK 377802

Dassault Systemes Foundation
Hinjewadi Pune- 411057
NK orchid College of engineering
Chandrakant Puchade

- 3 AUG 2018

आर. एस. कंचिनकोटी
महाडमर चैंबर्स, कोरेगाव, पुणे-३८

SPONSORSHIP AGREEMENT

This Sponsorship Agreement (Agreement) is made on 14th Sep 2018 ("Effective Date")

By and between

Dassault Systemes Foundation, a Company incorporated under Section 8 of the Companies Act, 2013, and having its Registered Office at Plant 11, Pirojshanagar, Vikhroli (West), Mumbai – 400 079. CIN: U72900MH2017NPL302013 | Tel: +91-22-67056001 | Fax: +91-22-67056891; represented by Mr. Sudarshan Mogasale – in his capacity as Chairman of the Board of Directors (Hereinafter referred to as "**DS Foundation**")

And

N K Orchid College of Engineering & Technology, Solapur, situated at Gat No.16, Solapur-Tuljapur Road, Near Mashroom Ganapati Temple, Tale-Hipparaga, Solapur 413002, established in the year 2008. N K Orchid College of Engineering & Technology, Solapur is self-financed Engineering College; registered as educational institute under Charitable Trust Act, and is represented by Dr. J. B. Dafedar in his capacity as Principal.

(Hereinafter referred to as "Partner")

Hereinafter individually called as "**Party**" or collectively called as "**Parties**"

Whereas,

A) **Dassault Systemes Foundation** is dedicated to transforming the future of education and research with the learning and discovery capabilities of 3D technology and virtual universes. Dassault Systemes Foundation supports projects in India to bring about transformation in Education and Research. It is working with the objective to improve engineering skills and support innovation in Indian Academia/ Research Centres, to accelerate education transformation, to encourage scientific research, to encourage vocation for science and engineering among young people and to support education programs for Underprivileged & Specially abled citizens. Dassault Systemes Foundation will help teachers, learners and scientist to leverage the power of 3D virtual world to stretch the limits of knowledge and to invent new ways to pass on this knowledge to current and future generations of Indian thinkers, inventors, builders and leaders.

B) **PARTNER is** chartered in year 2008, with the Vision of achieving "Locally Rooted, Globally Competent Education", N K Orchid College of Engineering & Technology ("NKOCET") started operating from the academic year 2008-09. NKOCET has emerged as a preferred knowledge destination for aspiring Engineering students.
NKOCET is well equipped with the state-of-the-art infrastructure, laboratories, smart classrooms, workshop to meet today's global needs. NKOCET has highly qualified and experienced faculties who are committed to create a congenial student friendly environment.
The institute NKOCET encourages the student's innovation and creativity by arranging technical competitions and national level events like ORCHITECT every year. Along with Technical skills, NKOCET provides Soft Skills training to sustain in the challenging and competitive professional world.
NKOCET is known for its strong teaching-learning process where lot of precedence is given on practical and real knowledge acquisition. NKOCET has given emphasis to applied projects based on industry problems.

The Partner hereby certifies to Dassault Systemes Foundation that Partner:

- Is a body of general interest, registered as per applicable laws
- Pursues non-profit making aims,

consent of Dassault Systemes Foundation and the same shall be obtained after following due process specified by Dassault Systemes Foundation.

ARTICLE 5. RIGHTS AND LICENSE TO USE

The Partner hereby grants the Dassault Systemes Foundation, for non-profit and educational purposes, a non-exclusive, royalty-free, worldwide, perpetual, irrevocable and sub licensable right and license to use, execute, reproduce, display, perform and distribute, in whole or in part, and create derivative works of, and authorize others to do any of the foregoing, any educational materials (including but not limited to curricula, lesson plans and teaching materials) created or developed by the Partner in connection with the Project (the "Licensed Materials"). Further, the Partner shall promptly and fully furnish the Licensed Materials to the Dassault Systemes Foundation upon the completion of the Project. The Partner confirms and warrants that it has all rights necessary to provide the license granted in this subsection.

ARTICLE 6. SINGLE POINT OF CONTACTS

Each party shall appoint their representative as a Single Point of Contact (SPOC) for better coordination between the two parties

SPOC details:

For: **Dassault Systemes Foundation** Name: Hemant Gadgil Address: Dassault Systemes Foundation Plot No. 15/B, Pune Infotech Park, M.I.D.C, Hinjewadi Phase-I, Taluka Mulshi, Pune 411 057 Ph: +91 (20) 6793 6600 Email id: Hemant.Gadgil@lafondation3ds.in
For : **N K Orchid College of Engineering and Technology, Solapur (PARTNER)** Name: Dr. Shriniwas S Metan Title: Professor & Head of Department Department: Mechanical Engineering Address: **N K Orchid College of Engineering and Technology, Solapur** Gat No.16, Solapur-Tuljapur Road, Near Mashroom Ganapati Temple, Tale-Hipparaga, Solapur 413002. Phone: +91 (217) 2500020/21 Cell Phone: 9552529283 Email id: shrinivasmetan@orchidengg.ac.in

Each party shall notify the other of any modification in writing in case of change in the above SPOC.

IN WITNESS WHEREOF the Parties have caused this Sponsorship Agreement to be executed the day and year first herein above written.

For and on behalf of **Dassault Systemes Foundation**	For and on behalf of **N K Orchid College of Engineering and Technology, Solapur**
Director/Authorised Signatory	
Name: Sudarshan MOGASALE	Name: Dr. J. B. Dafedar
Designation: Chairman of Board of Directors Dassault Systemes Foundation	Designation: Principal N K Orchid College of Engineering and Technology
Date: 14th Sep 2018	Date: 14th Sep 2018

Amount is reflected here in Annexure A

Annexure A

Financial contribution made by Dassault Systemes Foundation will be used by partner for following activities / purchase of equipment needed for project

Equipments required for the project; as requested by partner	Quantity	Indicative Price
Energy Storing Materials	20 Kg	₹ 15,000
Solar Simulator	1	₹ 2,00,000
Solar Dryers (Project Work)	1	₹ 5,50,000
Solar Passenger Car (Project Work)	1	₹ 4,50,000
Miscellaneous		₹ 34,000

Annexure B

List of equipment required for project; as requested by partner; will be provided by Dassault Systemes Foundation

Equipments required for the project; as requested by partner	Quantity	Indicative Price
Solar Intensity Measurement Pyranometer	1	₹ 2,50,000
Data Acquisition System	1	₹ 2,50,000
Charge Controller	5	₹ 10,000
Solar Panel 100 W	5	₹ 25,000
Solar Chart	5	₹ 5,000
PCUs, Load AC/DC, Digital Multimeter, cables, Connecting wires, Lead solder, Flux, Regulated Power Supply	2	₹ 25,000
Solar Inverter	2	₹ 40,000
Batteries	8	₹ 75,000
LDR OP-Amp (LM324)Bread Board	2	₹ 20,000
Photo diode & IR LED, LEDs (Red, Green, Blue)	2	₹ 30,000
Earthling rod & Earth Tester	4	₹ 5,000
Resistors (10k, 470 ohm, 1k, 100k, 1M ohm)	25	₹ 5,000
Soldering iron Solder wire	2	₹ 3,000
Educational Solar Kit	10	₹ 25,000
PV F-Chart Software	2	₹ 80,000
Thin film Solar Panel 100 W	3	₹ 18,000
Flexible Solar Panel 100W	3	₹ 50,000
Vacuum Tube Solar Water Heater	1	₹ 25,000
Solar Tracking (Self-Powered)	1	₹ 50,000
Moisture Meter	1	₹ 20,000
Solar energy storage properties measurements	1	₹ 2,20,000

3. **TECHNOCRAFT ENGINEERS Design Consultancy of Dr B K Sonage @ 200000 Rs/-**

TECHNOCRAFT ENGINEERS

Plot No. A20/19, M.I.D.C., Chincholi, Solapur - 413255
Mobile No. : 9326524455 Email : technocrafte@yahoo.in

Ref No: - TE/CERT. /Dr. Sonage/05-01/2020 **Date:** 30.05.2020

CERTIFICATE

This to certify that **Dr. Sonage B.K.**, Professor in Mechanical Engineering, Nagesh Karajagi Orchid College of Engineering and Technology, Solapur, has completed consultancy project of design of **Methanol recovery system** having total consideration amount of Rs 2,00,000=00 approximately.

Regards,

Mr. Amit N Malge
Proprietor

TECHNOCRAFT ENGINEERS