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**Memorandum of Understanding (MOU)**

This MOU made and entered into on this 20 day of Jan Two thousand Twenty Two between Council of Scientific and Industrial Research (CSIR), a society registered under the societies Registration Act (XXI of 1860) having its registered office at Anusandhan Bhavan, 2, Rafi Marg, New Delhi 110001, India acting through Indian Institute of Chemical Technology, a constituent laboratory of CSIR located at Tarnaka, Uppal Road, Hyderabad 500 007, (hereinafter called "CSIR-IICT" which expression shall where the context so admits include its successors and permitted assignees) of the one part,

**AND**

Telangana Social Welfare Residential Educational Institutions Society (TSWREIS) having its registered office at 10-4-771/294, Telangana Social Welfare Residential Educational Institutions Society, Owaisi Pura, DSS Bhavan, Masab Tank, Opp Chacha Nehru Park, Hyderabad 500028 (hereinafter called TSWREIS which expression shall where the context so admits include its successors and permitted assigns) of the second part,





  
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## Preamble

Whereas CSIR-IICT is a premier R & D Institute, which has been established to carry out research in chemical sciences leading to innovative processes for a variety of products necessary for human welfare such as food, health, energy and environment and the conduct of R&D work is fully geared to meet the requirements of technology development, transfer and commercialization. The institute has been working in close association with laboratories of DRDO, Department of Atomic Energy, ISRO on various collaborative projects.

Whereas TSWREIS is a Telangana Social Welfare Residential Educational Institutions Society (TSWREIS) is running 268 residential educational institutions (from 5th standard to Post-graduate level, Pharmacy and Law) in the state of Telangana under the Ministry of Scheduled Caste Development, Government of Telangana. The TSWREIS has been catering to the dire educational needs of marginalized children especially Scheduled Caste (SC) children hailing from the remote rural areas of Telangana. The vision is to build extraordinary educational institutions to provide high-quality, holistic and value-based education to the needy and deprived children on par with other advantaged children. Among the 268 institutions, thirty (30) are undergraduate colleges (Telangana Social Welfare Residential Degree Colleges, TSWRDC) exclusively for women that offer courses in Science, Arts, Management and Commerce. TSWREIS has been working in close association with various National and International Universities/ organizations to support its mission to promote a wide range of curricular and extra-curricular activities beyond the confines of the classroom to create a vibrant and learning environment.

### 1. Whereas CSIR-IICT and TSWREIS are keen to collaborate on

- (i) Jigyasa – To inculcate scientific temper among school students through various existing initiative of CSIR's JIGYASA program as per Annexure - 1
- (ii) Skill Development Programmes – Capacity building through Skill training / Training of Trainers (ToT) in Chemical, Biological and Engineering sciences as per Annexure - 2


Whereas CSIR-IICT and TSWREIS desires to enter into a MoU setting forth the terms and conditions for carrying out the ACTIVITIES.

The MOU details the objectives of the ACTIVITY, responsibilities and obligations of each party and other terms and conditions.

### 2. Responsibilities of CSIR-IICT

- To extend Jigyasa initiatives to the selected students / teachers
- To organise Skill Development / ToT programmes / internships to the selected students/participants in batches (20 per batch and 02 batches in a year)



  
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### 3. Responsibilities of TSWREIS

- Selection of Students / Teachers for Jigyasa/Internship/Skill development programs
- Selection of Teachers for Trainers Training Programme

### 4. Financial Terms

In consideration of the activities rendered, CSIR-IICT and TSWREIS agree to conduct the Jigyasa initiatives and Skill Development Trainings. CSIR-IICT will submit an invoice for each of the initiative / training / service rendered to TSWREIS and TSWREIS will pay to CSIR-IICT as per invoice. The taxes will be mentioned in the invoice as applicable.

### 5. Confidentiality

During the tenure of the MOU and thereafter, both CSIR-IICT and TSWREIS undertake on their behalf and on behalf of their subcontractors / employees / representatives / associates to maintain strict confidentiality and prevent disclosure thereof, of all the information and data exchanged / generated pertaining to work under this MOU for any purposes other than in accordance with this MOU.

### 6. Force Majeure

Neither party shall be held responsible for non-fulfillment of their respective obligations under this Agreement due to the exigency of one or more of the force majeure event such as but not limited to acts of God, war, flood earthquakes, strike, lockouts epidemics, riots, civil commotion, etc. Provided on the occurrence and cessation of any such events, the party affected thereby shall give a notice in writing to the other party within ONE(1) month of such occurrence or cessation. If the force-majeure condition continues beyond six months, the parties shall then mutually decide about the future course of action.

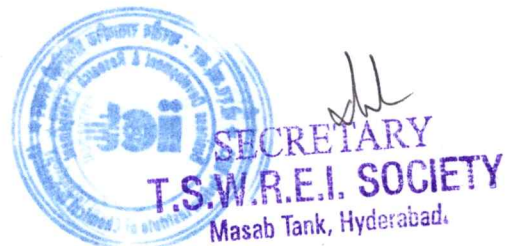
### 7. Effective date, duration, termination of the MOU

7.1. The MOU shall be effective from the date of signing and shall remain in force for 02 years.

7.2. The MOU shall terminate on the expiry of the period, as in clause 7.1 unless extended by both parties.

7.3. During the tenure of the MOU, parties hereto can terminate the MOU either for breach of any of the terms and conditions of this MOU or otherwise by giving 3 months notice in writing to the defaulting party. Failure of either party to terminate the MOU on account of breach or default by the other shall not constitute a waiver of that party's right to terminate this MOU.

7.4. In the event of termination of the MOU vide 7.3 the rights and obligations of the parties, thereto shall be settled by mutual discussion.



## 8. Notices

All notices and other communications required to be served on TSWREIS under the terms of this MOU shall be considered to be duly served if the same shall have been delivered to, left with or posted by registered mail to TSWREIS at its last known address of business. Similarly, any notice to be given to the CSIR-IICT shall be considered duly served if the same shall have been delivered to, left with or posted by registered mail to CSIR-Indian Institute of Chemical Technology, Hyderabad.

## 9. Amendments to the MOU

No amendment or modification of this MOU shall be valid, unless the same is made in writing by both the parties or their authorized representatives and specifically stating the same to be an amendment of this MOU. The modifications / changes shall be effective from the date on which they are made/ executed, unless otherwise agreed to.

## 10. Assignment of MOU

The rights and/or liabilities arising to any party to this MOU shall not be assigned except with the written consent of the other party and subject to such terms and conditions as may be mutually agreed upon.

## 11. Arbitration

Any dispute arising out of this MOU, the same shall be referred to the arbitration of 3 (three) arbitrators, one to be appointed by each party to the dispute, and the third and presiding arbitrator shall be nominated by the said two arbitrators before entering into any reference. The decision of the majority of arbitrators shall be final and binding on both parties. The venue of arbitration shall be at Hyderabad and the arbitration proceedings shall take place under the provisions Indian Arbitration and Conciliation Act, 1996

In witness whereof, the parties hereto have signed this MOU on the day, month and year mentioned herein before.

Parties:

For and on behalf of  
CSIR-IICT

Signature



Name

डॉ. डी. शैलजा  
Dr. D. SHAILAJA  
Chief Scientist & Chair  
Business Development & Research Management  
सी.एस.आई.आर.-भारतीय रासायनिक प्रौद्योगिकी संस्थान  
CSIR-Indian Institute of Chemical Technology  
(Ministry of Science & Technology, Govt. of India)  
Tamaka, Hyderabad-500 007, Telangana State, INDIA

Seal

For and on behalf of  
TSWREIS

Signature



Name

Designation

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Masab Tank, Hyderabad.

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**CSIR's "Jigyasa: Student – Scientist Connect programme"**

**i. Student Residential Programme**

A week long (or shorter duration) residential programme can be planned for a small group of students (20-25) and two or more teachers during the breaks and vacations. The programme will help students to attend Lab and watch the scientific work in progress and learn by assisting the Lab personnel. The stay in the campus would provide ample time and opportunity to the students to get first-hand experience in scientific work and also enable them to appreciate the fundamentals of science taught to them in the classroom.

**ii. Teachers' Workshop**

A two or three day Teachers' workshop can be envisaged. Teachers of a particular stream can be invited to nearby CSIR institute for apprising on the latest developments in scientific field along with hand-on demonstration wherever feasible.

**iii. Mentoring program for Gifted students**

Supremely talented students who have the potential giftedness, selected through a process of scientific and transparent method will be supported for long term mentoring from scientists of CSIR labs as may be worked out between the parties to achieve objective of promotion of gifted children.

**iv. Summer Vacation/Apprenticeship Programmes**

Interested school students of class IX and class XI can be chosen to attend a special summer vacation camp in select CSIR laboratories. The Labs can also organize longer summer vacation programmes wherein minor research projects can be taken-up by the students with the help of young Scientists and Research associates. Such research projects can be dovetailed with the ongoing projects in the labs.

**v. Popular Lecture Series / demonstration programme at School**

Popular scientific lecture series by CSIR scientists with large participation of students may be organized with working models/ demonstration.

**vi. Scientists as Teachers and Teachers as Scientists**

Scientists and other CSIR employees who have a flair for teaching can be associated with schools to provide a practical and lively lecture on science around you or concepts of sciences in simple form. The visit can also include minor demos wherever feasible.

Similarly, teachers from schools who have a zeal for R&D can be motivated to pursue their research instincts with the mentorship of CSIR scientists. This will enable teachers to publish papers, articles etc. and hone their research skills. Scientists can handhold teachers in this aspect.

**vii. Summer School in CSIR Laboratories**

Summer schools can be organised to the students of in identified CSIR laboratories on specific themes to encourage students to pursue Science in their Career. Students would attend the



  
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summer school during the vacations for a period of 3-4 weeks in the laboratories depending upon accommodation available in the laboratories selected.

**viii. Micro Research Projects for Students**

Interested students will seek grants for Micro Research Projects based on the interest and application under the collaborative guidance of teachers and Scientists in CSIR Laboratory from various Extra Mural funding. This will help the children to get the feel of research and encourage them to opt for scientific research as their career.

**ix. Collaborative Research Projects**

Teachers who have flair for research may be permitted to work in the CSIR laboratories during vacation on research projects leading to publication or PhD programs registered in other universities. Encouraging School teachers in research activities will go a long way in strengthening School Education Systems. Therefore, under this program teachers interested in research can be associated to do research subject to fulfilment of research requirements in the respective laboratories.

**x. Mentoring of Inspire Awardee Students**

As DST and Ministry of IT are having the scheme of awarding the students on new ideas mentoring of the awardees would help them to develop the idea into working models and products as the case may be. The working model for the same could be worked out in consultation with the specific laboratory where such works are in progress.

**xi. Laboratory Foundation Day Celebrations**

CSIR laboratories Open Day to school children are organized periodically. School Students and teachers in the vicinity of CSIR laboratories can visit CSIR laboratories and get the opportunity of seeing Science Lab equipment and how it is being used by the researchers. The visit would also facilitate informal interaction between the students and researchers.

**xii. CSIR Foundation Day (26 September)**

CSIR Celebrates its Foundation Day on 26 September. Similarly, each CSIR laboratory celebrates its foundation day. On these occasions special programmes are organized across CSIR. School children can participate in those programs

**xiii. Important Awareness Days (Environment Day, World Health Day, National Science Day, International Day of Chemistry, etc.)**

School students can participate in the CSIR celebrations on Environment Day, World Health Day, National Science Day etc. in specific CSIR campuses. The event may include lecture series, presentations, and other activities.

**xiv. National Technology Day**

CSIR Celebrates National Technology Day to mark CSIR's contribution to the Science and Technology especially dedication of Hansa 3, India's first indigenous aircraft which was first tested on 11 May 1998 in Bangalore. School Students can also become part of this participation.

**xv. Lab specific activities / Onsite experiments**



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CSIR with its diverse portfolio of laboratories can provide distinct lab specific programs to school students. These programmes have to be worked out based on geographical and laboratory mandate. This may include onsite experiments in school such as phenological calendar of trees.

**xvi. Science Exhibitions**

CSIR organizes Science Exhibitions in many events and occasions. School students can visit and participate in the exhibitions wherever CSIR has presence.

**xvii. Projects of National Children's Science Congress**

Students who are preparing science projects/ models under National Children's Science Congress can come to CSIR institutes to take help and guidance from the scientists and technologists.

**xviii. Science and Maths Club**

Science clubs for school children can be thought as a model for scientists and student interaction. The clubs can be instrumental in handholding of school students by scientists. Students can also associate with CSIR for taking necessary guidance for designing their science projects and documenting their project.

**xix. Publication of Student articles in CSIR Journals**

School students as well as teachers will be encouraged to write articles that can be published in CSIR Articles/Journals. CSIR scientists will handhold students and teachers in this endeavour.





## SKILL Development Training

under

CSIR Integrated Skill Initiative



Skill India

CSIR-Indian Institute of Chemical Technology (CSIR-IICT) is a premier National R&D Institute with over seven decade partnership with industry and contribution to the society. The Institute is located in a sprawling campus in the knowledge innovation hub of the city. CSIR-IICT is equipped with expert pool of scientists supported by advanced analytical & characterization facilities.

The SKILL INDIA program at CSIR-IICT aims to create opportunities, space, scope for the development of the talents of the Indian youth and to develop more of those sectors which provide employment and entrepreneurship. The idea is to raise confidence, improve productivity, providing direction through a balanced growth in all the sectors so that the jobs should be given equal importance.



### Skill Courses Offered

- Advanced Synthetic Organic Chemistry Training (6 Weeks)
- Advanced Analytical Chemistry Training (6 Weeks)
- Water Purification Systems (6 Weeks)
- Advanced Cell & Molecular Biology (6 Weeks)
- Process Plant Drafting using Autocad (4 Weeks)
- Laboratory Animals in Biomedical Research (4 Weeks)
- Certificate Course on Data Analysis (7 Weeks)
- Basic Cheminformatics (2 Weeks)
- Quality Control Chemist (4 Weeks)
- Lab Technician – R & D (4 Weeks)



For more details mail to : [sdp@iict.res.in](mailto:sdp@iict.res.in)

Target Beneficiaries : Graduates / Post Graduates / Diploma in Science / Engineering & ITI / X Standard students

Rigorous training in advanced topics by means of theory and experimentation,  
 Personal Attention during Hands on sessions, Exposure to Research Labs of other areas in the institute,  
 Evaluation of knowledge gained by weekly assignments, Course completion CERTIFICATE to all the trainees

### Salient Features of Training

### Contact Information

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Director

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Telangana

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