Expression of Interest (EOI)

Inviting Lab Training Partners in Hyderabad and Visakhapatnam

for providing

Infrastructure and Lab support for students belonging to SC/ST community in Hyderabad & Visakhapatnam

from

AICTE approved institutions, professional bodies and competent training institutes

Under the Project

"Employment/Self-employment Capacity building of the Engineering pass-out students belonging to Scheduled Caste/Scheduled Tribe community"

Sponsored by
Ministry of Electronics & Information Technology (MeitY)

National Institute of Electronics and Information Technology, (Chennai)
An Autonomous Scientific Society of Ministry of Electronics and
Information Technology, Government of India
ISTE Complex, No. 25, Gandhi Mandapam Road, Chennai, Tamil Nadu-600025
Web: http://nielit.gov.in/chennai/

Contents

<center>**EXPRESSION OF INTEREST**</center>

1.0 Introduction

NIELIT Chennai, is a Centre of NIELIT, an Autonomous Scientific Society of Ministry of Electronics and Information Technology (MeitY), Government of India is engaged in education, training and consultancy services in advanced areas of IECT and/or intended to extend quality education to masses through various schemes and programs.

NIELIT Chennai has been awarded the project "Self-employment Capacity building of the Engineering pass-out students belonging to Scheduled Caste/Scheduled Tribe community" by MeitY. NIELIT Chennai intends to partner with competent firms to provide the required lab support to the candidates through their existing network of training centres/individual institutions in Hyderabad and Visakhapatnam.

2.0 Scope

Scope of the EoI is to provide Infrastructure, Lab and placement support to the candidates under the project in the cities of Hyderabad and Vishakhapatnam initially for the period of 1 year; extendable based on performance and coterminous with the project.

Details of the course-wise and District-wise breakup of students to be trained are given in the ANNEXURE I.

3.0 Objectives

The broad objectives/aims of the project are:

- Provide Infrastructure, Lab and placement support for job-oriented skill courses of NIELIT Chennai offered to deserving candidates belonging to SC/ST category in Hyderabad and Visakhapatnam, so as to increase their entrepreneurship potential as well as employability.
- To generate quality manpower in-line with the Digital India, Make India and Skill India Programs of Govt. of India
- Provide practical skill and knowledge in related areas and increase immediate employment opportunities

4.0 Invitation for EoI

NIELIT Chennai invites Expression of Interest (EoI) from AICTE approved institutions, accredited centres, professional bodies and training institutes with proven track record having lab infrastructure required to conduct virtual training program and practical support in the field of Embedded Real Time System in the cities of Hyderabad and Visakhapatnam as per the requirements of NIELIT Chennai

4.1 Interested applicants may download the format and other documents related to EoI from the website http://nielit.gov.in/Chennai

4.2 Interested applicants at the time of submission of response to the EoI, should make online payment of **non- refundable fee of Rs. 1,000/- (Rupees one thousand only) as per the details given below** Failure to do so will result in rejection of the EoI. (**Institutions run by the Government (State & Central) are exempted from the above fee)**

On line payment details

1.	Name of the payee as in bank account	NIELIT Chennai
2.	Name of the Bank	State Bank of India
3.	Bank Branch (Full address and Telephone Number)	Kottur (Chennai, Tamil Nadu)
4.	Bank Account Number	31185720641
5.	Account type	Savings Bank Account
6.	Mode of Electronic Transfer available in bank/Branch	NEFT/RTGS
7.	IFSC Code of the Bank (under RTGS)	SBIN0001669
8.	MICR Code	600002023
9.	PAN No.	AAATD0315M
10.	TAN No.	CHED07576C

4.3 The Expression of Interest must be delivered to the below address by 17.30 hrs on 28th July 2021

> **ISTE Complex, NO. 25, Gandhi Mandapam Rd, Chennai, Tamil Nadu-600025**

Contact details:
  Email: purchase.chn@nielit.gov.in
  Phone: 044 2442 1445

5.0 Scope of Work

5.1 The applicant would be required to study the objectives of the proposed training programs and its deliverables. The broad areas of scope of work includes, identification of trainees, registration, providing lab infrastructure, career guidance and placement support. The areas of training, type of partnership & roles of partnership related information are given in **ANNEXURE I**.

5.2 Provide/create required infrastructure as per the course requirement & schedule decided.

5.3 The selected / empaneled Training partners shall be considered for providing the support initially for one year which may be extended depending on performance/requirement for the next year.

5.4 The training has to be conducted as per the modalities of the broad MoU given under **ANNEXURE II.** All identified Training Institutes/Partners are required to execute the MoU.

5.5 The training is proposed to be conducted in two cities namely Hyderabad and Visakhapatnam.

5.6 The beneficiary candidates under the scheme are youths of Andhra Pradesh & Telangana belonging to any of the following category-

  o SC (Scheduled Caste).

  o ST (Scheduled Tribe).

The candidates will have to produce a valid certificate for each of the above category in order to be eligible for admission to the training courses under the scheme.

6.0 Eligibility Criteria

6.1 AICTE approved institutions, professional bodies and training institutes with proven track record in the ICT Electronics domain in Hyderabad and Visakhapatnam cities which are meeting the specified faculty and infrastructure requirement to impart the said training programs are eligible to apply.

6.2 Must have IP based camera facility in labs through which NIELIT Chennai will be able to monitor the practical classes conducted by the training partner. Lab should be sufficiently spacious so that social distancing norms may be ensured.

6.3 Lab Training partner must have classroom with proper technical facility through which the students can attend online classes conducted by NIELIT Chennai remotely

7.0 Criteria for Empanelment

7.1 Interested institutions should submit a letter of interest along with their infrastructure details in the specified format as given in **ANNEXURE-IV & V.**

7.2 The information provided should be sufficient to verify that the infrastructure and other requirements are fulfilled as per the requirements to carry out the training.

7.3 The selection/empanelment will be in accordance with the criteria set in the section 12.

7.4 The short-listed/empaneled institutions will be communicated and on agreeing the terms shall be invited to become an accredited Lab Training partner of NIELIT Chennai by signing the MoU.

7.5 Interested institutions should have well connected & easy access to public transport, flexible working hours, and adequate infrastructure as mentioned in section 11.

7.6 Institutions having prior experience in implementing similar training programs will be given preference.

7.7 NIELIT Chennai will have the right to reject any or all EoIs, received in response to this invitation and its decision in this regard shall be final and binding.

7.8 NIELIT Chennai will have the right to finalize the number of lab training centers per partner per city, number of students etc.

8.0 Procedure for submission

8.1 Download the detailed information along with application format available in our website http://nielit.gov.in/chennai

8.2 Covering letter along with information of contact person should be made strictly as per the format given in **ANNEXURE IV**

8.3 Provide information on infrastructure and other relevant information only in the format provided as **ANNEXURE V**. Information submitted in other formats / incomplete applications will be rejected.

8.4 Attach documentary proof where ever required in support of your claim.

8.5 Add as attachment additional information, if any.

8.6 Attach demand draft for Rs.1000/- drawn in-favor of 'Director NIELIT Chennai' payable at Chennai.

9.0 Guidelines for submission of EoI

9.1 Agency must enclose a covering letter on Agency's Letter Head while sending the application- **ANNEXURE IV**

9.2 The EoIs must be sent in sealed cover so as to reach NIELIT Chennai within the stipulated date and time. The EoIs will be evaluated strictly as per the laid down criteria. Therefore, before sending the EoI, the bidder agency must ensure that they fulfill all the eligibility criteria. The related proof of experience, details of office set-up etc., as asked for, must be enclosed/ detailed out for evaluating the EoIs.

9.3 The details must be furnished as per formats enclosed in this document and strictly as per serial order. The information intended to be supplied should be furnished in such a manner that the same satisfies the need/requirement of EoI under various heads and is self-explanatory.

9.4 In case desired documents/proofs are not enclosed, the EoI shall be rejected and no clarification/enquiry will be sought/ made.

9.5 The last date of receiving the EOIs shall be adhered strictly. EoIs received after the last date and time will not be considered and no further action will be taken on such EOIs. The EOIs should be physically received in this office at NIELIT Chennai Centre.

9.6 The envelopes should be super scribed with "**EoI to provide Lab Infrastructure Support"**

10.0   Validity of EoI submitted

The EoI submitted by the applicant shall remain valid for a period of 60 days after the closing date (deadline) for submission of EoI prescribed in this document. EoI valid for shorter period may be rejected as non-responsive. NIELIT Chennai may solicit the applicants' consent to an extension of EoI validity (but without the modification in their EoI).

11.0   Minimum Hardware, Software and Faculty Requirement's for providing Infrastructure and Lab support in the following skill courses:

Requirement for IT for Masses Project				
Course Name	**Hardware Requirements**	**Software Requirements**	**Support Faculty Profile**	**Infrastructure Requirements**
Certified Embedded Software Engineer	✓ Development Boards - STM32, ARM Cortex-M4, Arduino Uno, NodeMCU, MSP430, Beagle Bone Black, Raspberry Pi, ✓ Shields – Ethernet, CAN, Wi-Fi, GSM/GPRS, GPS & Bluetooth Shield , ✓ Sensors–PIR, Ultrasonic, LDR, Soil Moisture, Flame, Accelerometer & Gyro meter ✓ Camera Module, Sense Hat, Capacitive Touch Screen , ✓ Wireless Sensor Network Radio and Related Modules with Integrated Antenna , ✓I2C/SPI Host adapter, I2C/SPI development board, CAN Development board.	✓FreeRTOS, ✓ OpenSTM, CubeMX, ✓ Segger Timing Analysis Tool, ✓ Code Composer Studio(CCS), ✓ Proteus VSM, ✓Keil Software,	✓ Diploma in ECE/EEE/ CSE or equivalent with good knowledge and Experience in Embedded Systems	✓ Minimum 20 systems with i5 or i7 Processor, 8 GB RAM, 500GB HDD, LAN with minimum 100 MBPS Internet Connection

PG Diploma in Data Science & Analytics (NIELIT Certified Data Science Professional)	NIL	✓MS Office 2019 or above ✓Ubuntu/Windows OS	NIL	
Certified Cloud Computing Engineer	NIL	✓MS Office 2019 or above ✓Ubuntu/Windows OS	NIL	

* Course syllabus is attached in the **Annexure VI**

12.0   Selection of Training Institutes:

a) **Shortlisting of LTP:** A three member committee Chaired by Director, NIELIT Chennai or his representative, consisting of Nodal Officer and Member from PMU, NIELIT Delhi/ CI of the Project or its representative will short list the LTP based on the criteria below :

Sr. No.	Criteria	Max. Marks
1	No. of students admitted in any NIELIT NSQF course in last 2 years	40
2	Distance from Municipal body (Nagar Palika/ Parishad etc.)	20
3	Experience of Operations Education field (particularly in IT)	10
4	Tie-up with industry and previous placement records	20
5	Training Facility availability	10
		100

A copy of the agreement to be signed with the selected institute is placed at **ANNEXURE -II**.

13.0   Selection of Candidates:

SC/ST candidates belonging to EWS category (as per Government norms) needed to satisfy the course wise following eligibility criteria:

i. **Certified Embedded Software Engineer:** B.E./B.Tech in Electronics/ Electronics &Communication/ Electrical/ Electrical and Electronics/Instrumentation/ Biomedical /Computer Science/Information Technology

ii. **PG Diploma in Data Science& Analytics (NIELIT Certified Data Science Professional):** ME/M.Tech./BE/B.Tech./MCA/M.Sc./ DOEACC 'B' Level with Knowledge of Statistics and Computer Programming.

iii. **Certified Cloud Computing Engineer:** BE / BTech, BCA, BSc (IT / Computer Science / Electronics) or equivalent of any of these.

A three-member committee comprising of Nodal officer from NIELIT center, head/authorized signatory of Lab training partner and one member from Dept. of Social Welfare / Dept. of SC/ST development/ Local employment exchange shall select the candidates fulfilling minimum eligibility criteria for admission as per qualification file of the course and on merit basis. Candidates with higher qualifications may be preferred. A student can take benefit under this project only once, i.e. one student can enroll for one course only during the entire project and only once. This will be the responsibility of LTP to ensure that no student is enrolled multiple times in one course or in multiple courses under the project. Further, there will be provision also in the portal to check duplicity of student records.

14.0 Disclaimer

14.1 The information submitted in response to this EoI may be subject to public release (as per RTI norms). Therefore, do not include proprietary or confidential business information in your response. Applicants responding to this invitation assume the risk of public disclosure if confidential information is included.

14.2 This invitation is for information purposes only and does not constitute a solicitation or Request for Proposal (RFP). This notice is not to be construed as a commitment by the NIELIT to contract for services. Please be advised that NIELIT Chennai will not pay for any information provided as a result of this invitation and will not recognize or reimburse any cost associated with any EoI submission.

14.3 This EoI does not entail any commitment on the part of NIELIT Chennai, either financial or otherwise.

14.4 NIELIT Chennai reserves the right to accept or reject any or all EoI without incurring any obligation to inform the affected applicant/s of the reasons.

14.5 NIELIT Chennai empanelment as Training Institute does not create any obligation on the part of NIELIT Chennai in terms of providing business or in any other area.

14.6 At any time prior to deadline for submission of EoIs, NIELIT Chennai may for any reason, modify the EoI document. The amendment document shall be notified through website and such amendments shall be binding on them.

ANNEXURE I

Details of the training, type of partnership & roles of partnership

A. Course Details - Year wise and District wise breakup of students to be trained

Sl. No.	Programmes to be offered#	NSQF Level	Duration (in hours)	Total target
1.	Certified Embedded Software Engineer	7	840	40 (Distributed among three courses)
2.	PG Diploma in Data Science & Analytics (NIELIT Certified Data Science Professional)	7	840	
3.	Certified Cloud Computing Engineer	7	840	

(Titles and level may change according to approval received from NSQC/NCVET)

Activity includes

    i.   Mobilization of students as per eligibility and income criteria
    ii.   Registration & Admission
    iii.   Registration of students in the examination portal
    iv.   Lab Facility/Assistant for handling the practical session
    v.   Placement assistance, career guidance, soft skill training

Payment terms: After completion of training and certification of a batch, invoice will be generated by the LTP. LTP will verify the invoice online, attendance of students and other necessary documents in that batch after due attestation and send it to the Nodal Officer of the NIELIT Chennai. Nodal Officer will further verify these details, take approval of Director and payment will be done to LTP by the NIELIT Chennai.

A. Activities to be performed by LTP/NIELIT:

Sr. No.	Activity	Activity
1	Accreditation process	By NIELIT Chennai
2	Candidate Enrolment	By LTP

3	Theory Lecture Delivery	By NIELIT Chennai
4	Lab Session Delivery	By LTP/by NIELIT Chennai through Virtual lab
5	Assessment of students	By NIELIT Chennai
6	Payment Model	Details attached in **Annexure III**

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Format of Agreement
(on Rs. 100/- stamp paper)

This agreement entered into on this…………day of ……………… between **NIELIT Chennai** (a unit of **NIELIT Society,** which is an autonomous scientific society of Ministry of Electronics & Information Technology, Government of India), ISTE Complex, NO. 25, Gandhi Mandapam Road, Chennai – 600025 (hereinafter referred to as **FIRST PARTY** which term and expression shall mean and include its successors and assignees) represented by its Head/Director on the **ONE PART**:

AND

The <.......Training Partner.........> (hereinafter referred to as **SECOND PARTY** which expression shall include its successors and assignees) and represented by authorized signatory Mr XXX, Head /Director on the **OTHER PART**:

WHEREAS First Party invited applications for providing training for <Project title>with assistance of MeitY, Govt. of India and whereas the SECOND PARTY tendered to provide the same.

AND WHEREAS **FIRST PARTY** awarded the contract for the said training to SECOND PARTY, after due process of Shortlisting the training partner.

AND WHEREAS **SECOND PARTY** has a security deposit in favor of **FIRST PARTY** for the due fulfillment of his obligation under this deed – Deposit amount of `XXXX/- being 5 percent of the work order amount (in the form of DD or Bank Guarantee No. dated)

WHEREAS **FIRST PARTY** and **SECOND PARTY** desire to mutually associate with each other to commence the **training program in <Project title>**through its training centres in the said district of said state.

Now it is hereby agreed by and between the two parties hereto as follows:

1. **SCOPE:** SECOND PARTY will provide the Infrastructure and Lab support for <Project title>through its centre in <District & State name>for the course <Course Name>.

   1.1. **Training program: <Project title>**as per details strictly asper NIELIT NSQF norms, Qualification file of the course and project guidelines.

   1.2. **SECOND PARTY** through its respective district coordinators will ensure the availability of necessary infrastructure and qualified and trained faculty suitable for conducting the respective training programs at the respective training centre.

2. **OBLIGATION OF SECONDPARTY:**

   2.1. **<Project title> for** the <District name> for the course <Course name>,
      2.1.1. **SECOND PARTY** proposing to conduct the training program shall furnish an undertaking that it fulfils all the necessary requirements in terms of infrastructure, hardware, software, faculty and library if applicable, etc for

conducting the training programs and shall allow the **FIRST PARTY** personnel or its representatives for inspections of the training centre if they so desire.

2.1.2. If the training is not carried out to the satisfaction of **FIRST PARTY**/end user and if the behavior or character or conduct of the personnel engaged by the **SECOND PARTY** are found to be unsatisfactory at any time during the period of operation of the contract, **FIRST PARTY** reserves the right to terminate the contract with one month's notice and if the contract is so terminated the **SECOND PARTY** shall not have any claim whatsoever for compensation for the remaining period of contract. The security deposit of the **SECOND PARTY** shall be forfeited in such cases.

2.1.3. **SECOND PARTY** or its district office shall monitor and coordinate the training programs conducted through its training centre and ensure that the training programs are implemented as per the criteria mentioned in Qualification File (QF) of the courses available at National Qualification Register https://nqr.gov.in/, NIELIT NSQF norms, and project implementation SoP/norms.

2.1.4. **SECOND PARTY** shall ensure that the persons employed for training possess the minimum essential qualification(s) and maintain a trainee: PC/lab practical training instruments ratio of 2:1 to ensure quality of the program

2.1.5. **SECOND PARTYs** Training charges for the Courses (includes GST and other applicable overhead charges)as per NSQF training fee rates per candidate which covers cost of publicity & study material also.

2.1.6. **SECOND PARTY** shall maintain a Student Registration Register, a Student Record Register and Student Attendance Register as given below.

(a) *Student Registration Register:* Student Registration Register shall contain details like Serial No.; Student Name & Address; Student ID Number; Date of Admission; Course Name, Course Code & Duration; Batch Code, Start Date & End Date, Sex, date of birth, caste, community details

(b) **Student Record Register:** Student Record Register shall contain details like Serial No.; Student Name; Student ID; Course Name; Period of Study; Assignment/ Test paper/Model Exam Nos. & marks/Grades awarded.

(c) **Attendance Register:** with signatures of the candidates for each of the day's attendance

SECOND PARTY will be responsible for the verification and maintaining record of all relevant documents of the beneficiary like educational qualification, caste certificate etc.

2.1.7. SECOND PARTY shall print and distribute the necessary Course material/handouts for the program as per the syllabus/course material mentioned in QF.

2.1.8. SECOND PARTY will ensure the quality of the training programme by implementing a Two-Tier Evaluation Project: (1) Continuous evaluation by means of Assignments & Class Tests and (2) Final Evaluation by NIELIT as per Examination for NIELIT NSQF aligned courses.

2.1.9. SECOND PARTY shall tie-up with the local industries for providing placement assistance for the candidates.

2.1.10. SECOND PARTY shall provide any other reports or information required by **FIRST PARTY** in connection with this training program.

2.1.11. SECOND PARTY shall nominate a **Co-ordinator/ authorized contact person** for this project.

2.1.12. SECOND PARTY shall not sub-contract the whole or part of the contractor assign the contract or any part thereof to any other third Party

3.   OBLIGATION OF FIRST PARTY:

3.1. FIRST PARTY shall coordinate the selection of the candidates based on the applications received and the candidates will be allocated to the nearest training centre of the **SECOND PARTY.**

3.2.   *Payment terms:* Payment shall be made on completion of the courses and further certification of candidates based on the actual number of candidates certified on receipt of invoice along with relevant documents online through portal to **SECOND PARTY.**

4.   Tenure /Renewal of the Agreement

This agreement shall come into force when duly signed by the representatives of both the parties and shall be valid for a period of **One Year** from the date of such signing. On the expiry of One year, parties hereto shall be entitled to renew by mutual consent on such terms as may be then be agreed upon. If not renewed, **SECOND PARTY** shall be entitled to stop conducting the training program for the candidates in this project. Before such action, both the parties shall ensure that the Courses already started are fully completed, examination conducted and certificates issued. This agreement shall not be terminated until successful completion of any pending Course.

5.   Breach of Terms of this Agreement

If either party commits breach of any of the terms of this agreement, the other party may bring the fact of breach to the notice of the former and the former shall immediately take steps to rectify the breach and in case he fails to do so and the breach continues for a period of 1 Month, the aggrieved party may treat this agreement as repudiated by the other party and forthwith serve a notice of termination and the aggrieved party will have the right to claim from the other party the damages in respect of losses already sustained by him for the unexpired period of the agreement on account of such termination of the agreement. The agreement will automatically be terminated within 1 month after the receipt of such notice, subject to the liability and arbitration clause. In the event of breach of any of the terms and conditions of the agreement signed by the **SECOND PARTY**, the security deposit will also be forfeited.

In case of any such termination of this agreement, in the middle of a Course, which has already been started, both the parties should take sufficient steps so as to complete the Course, already started. Termination of the agreement should be implemented in such a way that the future of the students/trainees is not affected by the termination. In case of such termination of the agreement, both the parties shall ensure that the Courses already started are fully completed, examination conducted and certificates issued.

6. **Termination of contract**

The contract is liable to be terminated by either side on one month's notice. Abrupt termination or breach of the contract by the **SECOND PARTY** for reasons attributable to the **SECOND PARTY** will entail forfeiture of the Security Deposit of the **SECOND PARTY**.

If the **SECOND PARTY** (a) abandons the contract or has failed to proceed with the work or does not adhere to the committed schedules or technological requirements due to negligence or the progress on any particular item or items is slow (b) has failed to execute the work in accordance with the terms and

conditions of the contract, (c) is persistently or frequently neglecting to carry out their obligation under the contract, then **FIRST PARTY** shall be competent to terminate the contract unilaterally at its discretion at any time without notice and without paying any compensation or any other amounts and to proceed with the balance of the work through any other agencies and the **SECOND PARTY** is liable to compensate **FIRST PARTY** for losses incurred by it in such cases. In such termination of the contract, the Security Deposit made by the **SECOND PARTY** shall also be forfeited

7. **Jurisdiction**

This Agreement shall be governed by the Laws of Indian Union in force. Both the parties here in agree that all disputes between them shall be subject to the jurisdiction of courts in Chennai District

8.   <u>**Arbitration or Mediation**</u>

Any dispute arising between the parties if not resolved between them shall be referred after mutual consent of both the parties to an arbitrator or mediator. The selection of the arbitrator shall be decided by the above parties mutually.

In case of termination of this agreement, in the middle of a Course, which has already been started, both the parties should take sufficient steps so as to complete the Course, already started. Termination of the agreement should be implemented in such a way that the future of the students/trainees is not affected by the termination. In case of such termination of the agreement, both the parties shall ensure that the Courses already started are fully completed, examination conducted and certificates issued.

9.   <u>**Modifications**</u>

The modifications in the Agreement can be done with the mutual consent of both the parties but strictly in line with the project guidelines.

10. The application, submitted documents by **FIRST PARTY to SECOND PARTY**and the record of the negotiation meeting held between **FIRST PARTY** and **SECOND PARTY** also form part and parcel of this agreement.

IN WITNESS WHEREOF, the parties hereto have caused this AGREEMENT to be executed in duplicate on the day and the year first above written

AGREED:

For (**FIRST PARTY**)   For (**SECOND PARTY)**

(Institute Head signature &stamp)   (Institute Head signature & stamp)

(Name in Block Letters)   (Name in Block Letters)

Name of **FIRST PARTY**	Name of **SECOND PARTY**
Address	Address
Contact Details	Contact Details
E-mail ID	E-mail ID
Web	Web

Witness 1:   Witness 2:

Signature………………………   Signature………………………

Name …(in Block Capital Letters)…   Name (in Block Capital letters) …

Address ………………………   Address ………………………
……………………………………   ……………………………………
………………………………   ……………………………………

Contact No. ………………..   Contact No. ……………………

ANNEXURE III

Revenue Sharing Model with Accredited Centres/ Lab Training Partners

Total course fee **per candidate** will depend on the duration (in Hrs) of the NSQF course. The Theory/ Practical component in Hours is mentioned as below:

Sl. No.	Course Name	Total Duration (Hrs) - A	Per hour NSQF Rate - B	Duration Theory - C	Duration Practical - D	Model
1.	Certified Embedded Software Engineer	840	49	295	545	(25 % of C+ 75% of D) ×B
2.	PG Diploma in Data Science & Analytics (NIELIT Certified Data Science Professional)	840	42	336	504	25% of (A ×B)
3.	Certified Cloud Computing Engineer	840	49	225	475	25% of (A ×B)

The revenue sharing will be as follows:

Activity	Model
Revenue sharing/ Payment Model	**For each candidate of the course mentioned in sl. No. 1,2 & 3 in the table above, LTP will get a revenue share of Rs. 23,643, Rs. 8,820 & Rs. 10,290 respectively.**

Fee Structure:

The approved institute shall be paid fee per student on successful completion of the training certification and placement as per the payment terms

Fee mentioned includes

- Mobilization of students as per eligibility and income criteria
- Registration & Admission
- Registration of students in the examination portal
- Facility for conducting the training & exam (online theory and practical)
- Faculty support for Practical sessions
- Placement assistance, career guidance, soft skill

Includes GST and other applicable taxes.

ANNEXURE IV

<u>Covering Letter Format</u>

Format for covering letter (To be submitted on the Letter head of the applicant institution)

Ref: _____.   Date.

To

The Director
NIELIT Chennai
ISTE Complex, NO. 25,
Gandhi Mandapam Rd,
Chennai, Tamil Nadu-600025.

Dear Sir,

Subject: EoI for Infrastructure and lab support for students belonging to SC/ST community in Hyderabad / Visakhapatnam (strike off whichever is not applicable)

Having examined the EoI document, we, the undersigned herewith submit our response to your EoI for Infrastructure and lab support for students belonging to SC/ST community in **Hyderabad / Visakhapatnam** (strike off whichever is not applicable).

1. We have read the provisions of the EoI document and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our EoI shall not be given effect to.
2. We would like to declare that we are not involved in any litigation with any State/Central Government in India and we are not under a declaration of ineligibility for corrupt or fraudulent practices.
3. We hereby declare that all the information and statements made in this EoI are true and accept that any misrepresentation contained in it may lead to our disqualification.
4. We understand that NIELIT Chennai is not bound to short-list / accept any proposal received in response to this EoI.
5. We understand that Empanelment with NIELIT Chennai does not guarantee that every /any of the applicants be awarded a project /assignment.

Our correspondence details / authorized person to deal with regard to this EoI is:

	Information	Details
1	Name of the Contact Person	
2	Designation and contact address of the person to whom all references shall be made regarding this EoI	
3	Telephone, FAX number	
4	Mobile number &email id of the	

	Contact Person	
5	Corporate website URL	

We hereby declare that our proposal submitted in response to this EoI is made in good faith and the information contained is true and correct to the best of our knowledge and belief.

Sincerely,

Signature:
[Authorized person)
Name, title with seal

Encl: Duly filled Application form.

ANNEXURE V

Application Form

Sl. No.	Description	Status Document	Details
Application Performa for Expression of Interest for Empanelment of Infrastructure and lab support for students belonging to SC/ST community *(Separate application to be submitted for each Training Centre)*		
1	NAME OF THE INSTITUTE	PAN Card & GST Certificate of the Institute	
2	FULL ADDRESS WITH PHONE//E.MAIL	Lease Agreement/ ownership deed	
3	EOI SUBMITTED FOR (District, State)	NA	
4	EOI SUBMITTED FOR (list of courses)	NA	1. 2. 3.
5	DATE / YEAR OF ESTABLISHMENT	Registration Certificate, bye-laws, rule and regulations, MoA, board resolutions etc.	
6	LEGAL STATUS / REGISTERED UNDER	Proprietorship/ Partnership/ Society/ Trust/ Company	
7	AFFILIATION (AICTE/UGC/NSDC/NSQF/Any other Govt. bodies)	AFFILIATION Certificate/Order	
8	NATURE OF ACTIVITY	Provide Details if any	
9	COURSES OFFERED AT PRESENT	Course Calendar/Brochure	

			etc.	
10	INFRASTRUCTURE DETAILS (HARDWARE-IT)	Provide Details		
11	INFRASTRUCTURE DETAILS (SOFTWARE)	Provide Details		
12	NO. OF COMPUTER LABORATORIES & DETAILS OF INTERNET CONNECTIVITY	Provide Details		
13	PROXIMITY / NEAR BY TOWNS, HQ, DISTRICT HQ	Provide Details		
15	DETAILS OF POWER BACKUP	Provide Details		
16	DETAILS OF SIMILAR PROGRAMS CONDUCTED& GOVT. SCHEMES IF ANY	Relevant documents/Work Orders		
17	DETAILS OF FACULTIES IN THE AREA OF IT WHO CAN BESPARED FOR THIS PROGRAM	Photograph and Unique Identification documents of the faculty/Bio-Data		
18	DETAILS OF TIE-UP WITH THE INDUSTRY AND DETAILED RECORDS OF PLACED STUDENTS? IF ANY	MoUs/Tie-up documents/ Placement Records etc.		
19	NUMBER OF CLASS ROOMS AVAILABLE	Provide Details		
20	DETAILS OF LIBRARY AND BOOKS AVAILABLE IN THE RELEVANT FIELDS	List of Books & Magazine available at the institute		
21	CONTACT PERSON(Name, Email ID & Mobile No.)	Provide Details		
22	DATE FROM WHICH THE PROGRAMS CAN BE LAUNCHED.	Provide Details		
23	IS IT POSSIBLE TO CONDUCT THE TRAINING ON HOLIDAYS & EVENINGS?	Provide Details		
Attach additional sheet, if the space is not sufficient and mark as **ANNEXURE --- (with**				

Sr. No)
Attach documentary proof wherever necessary

24. Details of registration fee paid

Amount*	Online Transaction Details	Date of Payment
Rs 1000/-		

*Only Rs 1000/- is to be paid by the Training institute even if applying for multiple training centres

25. Signature of Authorized person with Name

26. Declaration

(i) I, _____ son of _____have read and understood the RULES / GUIDELINES for Empanelment of Training Institutes for the implementation of Skill Development Programs.

(ii) I certify that, I am the competent authority, by virtue of the administrative and financial powers vested in me by_____ to furnish the above information and to undertake the above stated commitment on behalf of my /our institution.

(iii) I am aware that in case any information given by me is false or misleading, the Institute would be debarred from the conduct of training programs and / or debarred besides being subjected to any other action that may be deemed fit by NIELIT Chennai.

(iv) I agree to abide by the decisions of the NIELIT Chennai in respect of my application for permission to empanel our Institute for the implementation of Skill development Programs.

Signature:

Name:

Designation:

Seal of the organization

ANNEXURE VI

Course Syllabus

1. Certified Embedded Software Engineer

Duration: 840 hrs.

NSQF level: 7

Eligibility: B.E./B.Tech in Electronics/ Electronics &Communication/ Electrical/ Electrical and Electronics/Instrumentation/ Biomedical /Computer Science/Information Technology

Job role: Embedded Software Engineer, IoT Programmer, Firmware Designer

Delivery: Online Blended Mode

Module Name	Module topics:	Duration (Hours)		
		Theory	Lab	Total
Embedded C and ARM Cortex Microcontrollers	Embedded Concepts 'C' and Embedded C Introduction to ARM Cortex Cortex M4 Microcontrollers & Peripherals	70	70	140
Embedded Linux & Porting	Introduction to Linux System architecture of a Basic OS Tool-chain: Configuration and Cross-Compilation Getting Linux on a device	35	35	*70*
Embedded RTOS	Introduction to RTOS System architecture of FreeRTOS Practical Sessions	30	40	*70*
Internet of Things (IoT)	Introduction to IoT, WoT and M2M Basics of Internet & Review of Internet protocols Data logging /IoT Layering concepts Wireless PAN, GSM, Wifi IoT Data Analytics	70	140	*210*
Embedded Protocols & Device Drivers	Embedded Protocols Overview of Embedded TTY, I2C protocols, SPI, CAN Processor Bus, USB Overview of Linux Device drivers Linux Drivers overview The Character driver File System Modules	55	50	*105*
Seminar and case study	Learn new / latest trends in embedded real time systems. Design and develop a various case studies related to real-time embedded systems.	35	0	*35*
Project Work	The objective of this module is to help fresh graduates and practicing engineers to enhance their knowledge and skills of embedded product design covering the	0	210	*210*

Module Name	Module topics:	Duration (Hours)		
	various aspects of product development process and design of a stand-alone embedded system.			
Total Duration		**295**	**545**	**840**

2. PG Diploma in Data Science & Analytics (NIELIT Certified Data Science Professional)

Duration: 840 hrs.
Proposed NSQF level: 7
Eligibility: ME/M.Tech./BE/B.Tech./MCA/M.Sc./DOEACC B Level with Knowledge of Statistics and Computer Programming.
Job role: Statistical Analysts, Data Scientists, Data Analysts, Big Data Engineer, Hadoop Developer.
Delivery: Online Blended Mode

Module Name	Module topics:	Duration (Hours)		
		Theory	Lab*	Total
Fundamental of Linux & Server Configuration for Data Science and Analytics	Installation and Initialization Basic Linux Commands Package Management and process Monitoring Important Files, Directories and Utilities Shell Programming System Services User Administration Virtualization Basics of Information Security & Cloud	48	72	120
Data Warehousing using MySQL and MongoDB	Database Design using MySQL Relational Model and SQL Database design using the relational model Introduction to NoSQL and MongoDB Creating, Updating, and Deleting Documents. Index, Special Index and Collection Types Aggregation, Replication Deploying MongoDB	49	71	*120*
Data Analytics using R & Python	Basic Concept of Data Analytics & Data Manipulation in R Statistical Distribution using R OOPs concept & Exception Handling in Python	54	66	*120*

Module Name	Module topics:	Theory	Lab*	Total
	Data Analysis in Python Data Visualisation using Python			
Object Oriented Programming: Java	Basic Java Arrays, Objects and Classes Control Flow Statements Inheritance and Interfaces Exception Handling& Serialization Multithreading in Java Collections Reading and Writing files	58	62	*120*
Big Data Technology using Hadoop and Spark	Introduction to Big Data and Hadoop Eco System Configuring Hadoop HDFS Architecture Hadoop MapReduce Implementation of Machine Learning for Big Data using Python Deep Learning Applications	94	146	*240*
Mini Project	The objective of this module is to help fresh graduates and practicing engineers to enhance their knowledge and skills of embedded product design covering the various aspects of product development process and design of a stand-alone embedded system.	0	120	*120*
Total Duration		**303**	**537**	**840**

*Virtual Lab sessions using simulation software

3. Certified Cloud Computing Engineer

Duration: 840 hrs.
Proposed NSQF level: 7
Eligibility: BE / BTech, BCA, BSc (IT / Computer Science / Electronics) or equivalent of any of these.
Job role: Cloud Engineer, Network Administrator
Delivery: Online Blended Mode

Module Name	Module topics:	Duration (Hours)		
		Theory	Lab*	Total
Introduction to Network Management	Introduction to ISO & TCP/IP Stack DNS/UDP/IP TCP/HTTP/HTTPS ICMP/DHCP Cabling	28	42	70

	Addressing Managing Basic Switches Managing Advanced Switches Managing Basic Routers			
Introduction to Windows & Linux Server	Installing Windows Server Setting Active Directory Managing Active Directory Managing User &Group Setting File, Web Server Backup and Restore Introduction to Linux Fundamentals &Commands Advanced Linux Commands	42	63	*105*
Advanced Linux Server	Configuring DNS Server Configuring Web Server with Virtual Hosting Configuring MySQL Server Configuring Mail Server Configuring File Servers	42	63	*105*
Virtualization	Configuring Virtual Box Configuring VMware Configuring KVM Server Configuring Xen Configuring Hyper-V Deploying Vagrant Setting Linux Container Configuring Open Storage Configuring Openv Switch	42	63	*105*
Cloud Computing with SaaS & PaaS Cloud	Introduction to Cloud Computing Types of Cloud Services Introduction to SaaS Cloud SaaS Cloud Deployment with Open Source Tools Introduction to PaaS Cloud PaaS Cloud Deployment	28	42	*70*
Cloud Infrastructure	Introduction to IaaS Cloud Types of Cloud Deployment with Xen/KVM Setting Private Cloud with Xen Server and XVP Setting Private Cloud with vSphere Deployment with Public Cloud AWS	42	63	*105*
Cloud Security	Access Control Types Cryptography and Algorithm Analysis Cloud Monitoring Cloud Auditing Cloud Automation Cloud Standards	28	42	*70*

	Configuring Secure DNS, Web, mail server			
Mini Project	The objective of this module is to help fresh graduates and practicing engineers to enhance their knowledge and skills of embedded product design covering the various aspects of product development process and design of a stand-alone embedded system.	0	210	*210*
Total Duration		**252**	**588**	**840**

*Virtual Lab sessions using simulation software

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