

Expression of Interest (EOI)

For

Services of a Training Agency

to

PROVIDE TRAINING SERVICES TO ATAL TINKERING LAB. TEACHERS

Atal Innovation Mission

National Institution for Transforming India (NITI) Aayog

Room No.: 111

Yojana Bhawan, Sansad Marg,

New Delhi – 110001

Tel No.: 23042162

Aug, 2018

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1. TEXT OF ADVERTISEMENT

Atal Innovation Mission
National Institution for Transforming India (NITI) Aayog
Yojana Bhawan, Sansad Marg,
New Delhi – 110001

INVITATION FOR EXPRESSION OF INTEREST

Atal Innovation Mission (AIM), NITI Aayog invites sealed Expression of Interest (EOI) from Indian/Foreign training agencies for undertaking training services to the Atal Tinkering Lab. (ATL) Teachers.

The EOI Document containing the details of pre-qualification criteria, submission requirement, brief objective & scope of work and evaluation criteria etc. can be downloaded from the website www.aim.gov.in OR www.niti.gov.in

Further details, if any, may be obtained from Head (Admin), Yojana Bhawan, Sansad Marg, New Delhi-110001 during working hours (9: 30 am – 5:30 pm).

Last date for submission of EOI is 23rd August, 2018 upto 1500 hrs. Sealed envelope marked to the captioned address, containing EOI and non-refundable fee of Rs 1,000 by way of DD/Pay Order in favour of “PAO, NITI AAYOG”, payable at New Delhi may be submitted mentioning “EOI for training services to the ATL Teachers” on the top cover:

“The Mission Director,
Atal Innovation Mission, NITI Aayog,
Sansad Marg , New Delhi, 110001 ”

Applicants meeting the pre-qualification criteria may be invited for presentation / proposal/pre-bid meeting before the selection committee of AIM. Bid Document will be subsequently issued to the short listed applicants only.

Head (Administration),
Atal Innovation Mission, NITI Aayog
Sansad Marg, New Delhi

Note: AIM, NITI Aayog reserves the right to cancel this request for EOI or invite afresh with or without amendments, without liability or any obligation for such request for EOI and without assigning any reason. Information provided at this stage is indicative and AIM, NITI Aayog reserves the right to amend/add further details in the EOI.

2. OBJECTIVE

Atal Tinkering Labs are dedicated work spaces where students (class 6th to 12th) learn innovative skills and design ideas that will go on to transform India. The labs are powered to acquaint students with state-of-the-art equipment such as 3D printers, robotics and electronics development tools, Internet of Things (IoT) and sensors etc. The Atal Innovation Mission has selected 5441 schools to establish Atal Tinkering Labs (and has sanctioned and transferred grant-in-aid of Rs. 12 Lac each to 1,109 schools) across the country.

As the world enters into the fourth industrial revolution, a new set of skills have to be developed and mastered. For India to contribute significantly to the fourth industrial revolution, we need to empower our youth with these ‘skills of the future’. These skills include computational power, Internet of things (IoT), artificial intelligence, design thinking, advanced robotics, and cyberphysical systems – to name a few. The Atal Tinkering Lab is a platform for school students to develop these ‘skills of the future’ through practical application based on self-learning.

However, since tinkering is a new concept in India, it will require continuous handholding facilitated by a sustained engagement with experts. Hence we would like to propose a comprehensive training program for ATL teachers on the ATL philosophy, establishment of lab, successfully running the lab, and other elements related to ATL equipment, prototyping, coding, Open-source technology, microcontroller boards, electronics, rapid prototyping, 3D printing, tool training and other relevant skills.

In order to create a group of trained teachers and mentors in all the ATLs across the country, it is proposed to organize a series of phased trainings, in partnership with experienced training organisations. Given the newness of the concept of tinkering in India, it is advisable to bring in trainers who have prior hands-on knowledge in training, tinkering and are connected to the ‘Maker’ community of India.

The target is to cover around 5000 ATL schools spread across 32 different states and union territories of India. This program of training would be oriented towards cohorts of 40 teachers/mentors from 20 schools, and would be delivered in 4 days’ sessions over three to four months. The venues for these training sessions will be the existing ATLs spread across the country. It is expected that a hands-on training would be sufficient to provide adequate skills to a school teacher to enable to take up the responsibility of an ATL in-charge.

For the same, Atal Innovation Mission invites potential training organisations to offer their services via a tendering process.

3. EOI PROCESSING FEES

A non-refundable processing fee of Rs. 1,000/- (Rupees One Thousand only) in the form of a

Demand draft or a Pay Order drawn in favour of “PAO, NITI Aayog”, Payable at New Delhi, has to be submitted along with the EOI response. Bids received without or with inadequate EOI processing fees shall be liable to get rejected.

4. VENUE & DEADLINE FOR SUBMISSION OF PROPOSAL

The proposal in its complete form in all respects as specified in the EOI, must be submitted to AIM, NITI Aayog on or before 31st August, 2018 at the address specified herein earlier.

5. VALIDITY OF OFFER

The offer for EOI as per this document shall be valid for a period of six (6) months initially which may be extended further if required by AIM.

6. TERMS OF REFERENCE

The detailed terms of reference are enclosed in **Annexure-I**.

7. INSTRUCTIONS TO SERVICE PROVIDERS

The Expression of Interest is to be submitted in the manner prescribed below:-

All information as detailed below is to be submitted online, in one hard copy in a sealed envelope and one soft copy in CD:-

- Applicant’s Expression of Interest as per Format-1.
- Organizational Contact Details as per Format-2.
- Experience of the organization as per Format-3.
- List of three (03) experts/ consultants on payroll as per Format-4.
- Financial strength of the company as per Format-5.
- Additional information as per Format-6.
- Declaration as per Format-7.
- Power of Attorney in favour of Authorized Signatory with long and short signatures of Authorized person.
- Consultancy organization must have its office in India.

EOI documents have been hosted on the website www.aim.gov.in OR www.niti.gov.in and may be downloaded from there.

The bidders are expected to examine all instructions, forms, terms and other details in the EOI document carefully. Failure to furnish complete information as mentioned in the EOI document or submission of a proposal not substantially responsive to the EOI documents in every respect will be at the Bidder’s risk and may be summarily rejected.

8. PRE - QUALIFICATION CRITERIA

Following pre - qualifying criteria is suggested to be considered whilst selecting a Training organisation.

- i. In-house curriculum aligning with the ATL philosophy.
- ii. Past experience of conducting ‘hands-on’ training for teachers and mentors on tinkering and innovation
- iii. At least 3 years of existence in the market/community.
- iv. Maker community reach – for potential mentor pool to cover thousands of ATL schools widely spread across 32 states and union territories of India
- v. The organisation should not promote any specific product or service.
- vi. Community Credibility- won some accolades/ recognition in innovation area
- vii. Any other major observations during evaluation can be considered.

9. EVALUATION CRITERIA AND METHOD OF EVALUATION

The EOI would be evaluated as per the following criteria and only those bidders who score than 75% would be selected for further processing for issuance of the RFP.

Sl.NO	Criteria	Weightage
1.	Past experience of the agency (track record)	60%
2.	General profile of qualification, experience and number of key staff	25%
3.	Overall financial strength of the agency in terms of turnover	15%

The EOI shall be evaluated strictly as per the criteria attached. The shortlisted agency meeting the above eligibility criteria would be called for a pre-bid meeting and RFP would be issued to them, for further submission of their technical and financial proposal in a sealed envelope.

10. RESPONSE

Bidders must ensure that their Bid response is submitted as per the formats attached with this document. Special comments on the objectives and scope of the service projected in the enquiry may also be submitted along with the offer.

EOI should be sent in sealed cover super scribed, as “EOI for undertaking training services to the ATL Teachers”.

11. CONFLICT OF INTEREST

Where there is any indication that a conflict of interest exists or may arise, it shall be the responsibility of the Bidder to inform AIM, detailing the conflict in writing as an attachment to this Bid.

AIM will be the final arbiter in cases of potential conflicts of interest. Failure to notify AIM of any potential conflict of interest will invalidate any verbal or written agreement.

A Conflict of Interest is where a person who is involved in the procurement has or may be perceived to have a personal interest in ensuring that a particular Bidder is

successful. Actual and potential conflicts of interest must be declared by a person involved in a Bid process.

12. CONDITION UNDER WHICH EOI IS ISSUED

The EOI is not an offer and is issued with no commitment. AIM reserves the right to withdraw EOI and or vary any part thereof at any stage. AIM further reserves the right to disqualify any bidder, should it be so necessary at any stage.

13. LAST DATE OF SUBMISSION OF EOI

The last date of submission of EOI is 23.08.2018 (1500 hrs.).

Bid Opening Date & Time is 23.08.2018 (1600 hrs.)

FORMATS FOR SUBMISSION:

FORMAT – 1

APPLICANT’S EXPRESSION OF INTEREST

To,

“The Mission Director,
Atal Innovation Mission, NITI Aayog,
Sansad Marg , New Delhi, 110001 ”

Sub: Submission of Expression of Interest for undertaking training services to the ATL Teachers.

Dear

In response to the Invitation for Expressions of Interest (EOI) published on xx.xx.xxxx for the above purpose, we would like to express interest to carry out the above proposed task. As instructed, we attach 2 sets of the following documents in separately sealed envelopes and one soft copy:

1. Organizational Details (Format-2)
2. Experience in related fields (Format-3)
3. List of experts / consultants on payroll at least 3 (Format-4)
4. Financial strength of the organization (Format-5)
5. Additional information (Format-6)
6. Declaration (Format-7)

Sincerely Yours,

Signature of the applicant

[Full name of applicant]

Stamp.....

Date:

Encl.: As above.

Note: This is to be furnished on the letter head of the organization.

FORMAT – 2

S. No	Organizational Contact Details	
1.	Name of Organization	
2.	Main areas of business	
3.	Type of Organization Firm/ Company/ partnership firm registered under the Indian Companies Act, 1956/ the partnership Act, 1932	
4.	Whether the firm has been blacklisted by any Central Govt. / State Govt./PSU/ Govt. Bodies / Autonomous? If yes, details thereof.	
5.	Address of registered office with telephone no. & fax	
6.	Address of offices in i) National Capital Region of Delhi ii) All other State/UT's	
7.	Contact Person with telephone no. & e-mail ID	

Enclose:-

1. Copy of Certificate of Incorporation.
2. Copy of Article of Association in respect of 3 above.
3. Undertaking in respect of 4 above.

Signature of the
applicant

Full name of the
applicant

Stamp & Date

FORMAT – 3

Experience in Related Fields						
Overview of the past experience of the Organization in all aspects related to Brand Building related						
S. No	Items	Number of Assignments during last 5 years	Order Value of each assignment in Crores of Rs. (Enclose copy of each order)	Mention the name of Client/ Organization (Enclosed completion certificates)		
1	Experience of assignments of similar nature					
1.1	Experience in carrying out similar assignments in Government					
1.2	Experience in carrying out similar assignments in Public sector.					
	Decision of Evaluation Committee in ascertaining “similar nature” and “similar assignment” will be final.					
				Signature of the applicant Full name of applicant		
				Stamp & Date		

FORMAT – 4

List of experts/consultants on payroll (at least 3)

S. No	Name	Designation	Qualification	Relevant Experience
1.				
2.				
3.				
.				
5.				
6.				

Signature of the applicant
Full name of applicant
Stamp & Date

FORMAT – 5

Financial Strength of the Organization					
S. No	Financial Year	Whether profitable Yes/NO	Annual net profit (in Crores of Rs.)	Overall annual turnover (in Crores of Rs.)	Annual turnover from only Consultancy services rendered in India (in Crores of Rs.)
1	2015-16				
2	2016-17				
3	2017-18				

Note: Please enclose auditor's certificate in support of your claim.

Signature of the applicant

Full name of applicant

Stamp & Date

FORMAT – 6

Additional Information

1. List all enclosures related to the previous sections.

S.NO	Description	No. of pages

2. Additional information to support the eligibility as per Section 7 (Not more than 2 pages).

Signature of the applicant

Full name of applicant

Stamp & Date

FORMAT -7

Declaration

We hereby confirm that we are interested in competing for the Services to undertake training services to the ATL Teachers.

All the information provided herewith is genuine and accurate.

Authorized Person's Signature.

Name and Designation:

Date of Signature:

Note: The declaration is to be furnished on the letter head of the organization.

TRAINING SERVICES TO ATAL TINKERING LAB. TEACHERS

TERMS OF REFERENCE

The Atal Innovation Mission has selected 5441 schools to establish Atal Tinkering Labs and has sanctioned and transferred grant-in-aid of Rs. 12 Lac each to 1,109 schools across the country.

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For the same, Atal Innovation Mission invites potential training organisations to offer their services via a tendering process.

1. Pre - Qualifying Criteria

Following qualifying criteria is suggested to be considered whilst selecting a Training organisation.

- viii. In-house curriculum aligning with the ATL philosophy.
- ix. Past experience of conducting ‘hands-on’ training for teachers and mentors on tinkering and innovation
- x. At least 3 years of existence in the market/community.
- xi. Maker community reach – for potential mentor pool to cover thousands of ATL schools widely spread across 32 states and union territories of India
- xii. The organisation should not promote any specific product or service.
- xiii. Community Credibility- won some accolades/ recognition in innovation area
- xiv. Any other major observations during evaluation can be considered.

2. List of Training topics

- i. Introduction to Atal Tinkering Lab.
- ii. Philosophy of Atal Tinkering Lab.
- iii. Integrating ATL activities with day-to-day school activities.
- iv. Design Thinking
- v. Ideation
- vi. Hands-on prototyping Sessions
- vii. Basics of Electronics
- viii. Logic – Algorithm and Flowcharts
- ix. Basics of Coding/programming – Using IDE, block coding
- x. Basic Circuitry
- xi. Electronic Components – Discrete components, Sensors, Actuators, etc.
- xii. Open Source Microcontroller boards – Architecture, design, coding, implementation, troubleshooting, etc.
- xiii. Internet of Things
- xiv. Digital Literacy and Digital wellness.
- xv. Teamwork and Leadership
- xvi. 3D modelling and design
- xvii. 3D Printing – hardware and troubleshooting
- xviii. Hand/Power tools training.
- xix. Soldering.
- xx. How to make an effective presentation.
- xxi. Intellectual property protection and Patenting.

3. Draft Agenda

TIME	SESSION	SESSION DETAILS	MODE
DAY 1			
8:30 AM – 9:00 AM	Welcome & Introductions	Group Introductions	Presentation & Discussions
9:00 AM – 10:40 AM	Context setting	Overview of ATL program Overview of the Training Program – Online & offline	Presentation & Discussions
TEA BREAK			

11:00 AM – 1:00 PM	Life Skills Coaching Skills Facilitation Skills	Design Thinking Overview & deep drive Interactive Sessions	Presentation & Discussions
LUNCH			
1:40 PM - 3:40 PM	Introduction	Basics of Electronics – Components, circuitry, etc Hands-On Session on Electronics	Presentation & Discussions
TEA BREAK			
4:00 PM - 5.30 PM	Activity	Paper and Basic Circuits	Hands-On
DAY 2			
8:30 AM – 9:00 AM	Reflections	Recap of Day 1	Discussion
9:00 AM – 9:30 AM	Introduction	Algorithms and Flowcharts.	Presentation & Discussions
9:30 AM – 10:40 AM	Explore	Sensors and Actuators Components in the ATL Lab	Hands-On
TEA BREAK			
11:00 AM – 1:00 PM	Activity	Basics of Arduino (Hardware + IDE)	Hands-On
LUNCH			
1:40 PM - 3:40 PM	Activity	Coding/Programming Basics.	Hands-On
TEA BREAK			
4:00 PM - 5.30 PM	Explore	Digital Literacy and Digital wellness Internet - hygiene and safety.	Presentation & Discussions
DAY 3			
8:30 AM – 9:00 AM	Reflections	Recap of Day 2	Discussion
9:00 AM – 10:40 AM	Explore	Leadership and Teamwork Safety norms in the ATL	Hands On
TEA BREAK			
11:00 – 1:00 PM	Explore	Introduction to basics of IOT and Raspberry Pi.	Hands On
LUNCH			
1:40 PM - 3:40 PM	Explore	Introduction to 3d printing and 3D design Show and explain products/ models created during the workshop	Presentation & Discussions
TEA BREAK			
4:00 PM - 5.30 PM	Show and tell Feedback session	3D Modelling – Slicing 3D Printer – maintenance and troubleshooting.	Discussion & Presentation
DAY 4			

8:30 AM – 9:00 AM	Reflections	Recap of Day 3	Discussion
9:00 AM – 10:40 AM	Explore	Hands-On – (30 minutes each by each mentor) A. Soldering. B. Glue Gun, Heat Gun. C. Multipurpose Rotary tool.	Hands On
TEA BREAK			
11:00 – 1:30 PM	Activity	Hackathon – Creating time.	Hands On
LUNCH			
2:00 PM - 2:30 PM	Present	Present your creation	Presentation & Discussions
2:30 PM - 4:30 PM	Explore	Protecting Intellectual Property Rights by DIPP	
4:30 PM - 5:00 PM	Closure	Sharing Experiences	
CLOSURE WITH TEA			