

Revised Call for enlisting manufacturers/suppliers of equipment/kits for establishment of Atal Tinkering Labs (ATLs), Last Date of submission extended to Feb 10, 2017

NITI Aayog is a premier policy think tank of the Government of India. One of the stated functions of the organization is to promote innovation and entrepreneurship in India. With this mission, the Government has setup the Atal Innovation Mission (AIM). The focus of AIM is to foster and encourage innovation and entrepreneurship across multiple sectors in the country, through a series of new initiatives. Establishment of Atal Tinkering Labs across various Government and Private schools in India is one of the important initiatives under AIM. Initially, 257 schools have been selected for this purpose.

2. ATL is a work space where young minds can give shape to their ideas through hands on Do-It-Yourself mode and learn innovation skills. The vision of ATL is to Cultivate 1 Million children in India as Neoteric Innovators. The students in the ATLs will be encouraged, guided, mentored and enthused to work with Do It Yourselves (DIY) Kits and thereby inculcating a spirit of innovation and there by building solutions.

3. The potential equipment/kits manufacturers/suppliers will be shortlisted based on the qualifying criteria and technical & financial information submitted by them. A committee of Principals from the 257 schools selected under ATL scheme will then consider the shortlisted equipment/kits manufacturers/suppliers for enlisting the vendors based on their offering of equipment and associated services and price information keeping in view the requirement of ATLs.

4. Accordingly, online applications are invited from reputed equipment/kits manufacturers/suppliers having requisite experience and expertise in providing equipment and training for Tinkering Labs in schools. Interested organizations may submit their applications supported with all required information/documents.

5. Submission of application

Interested organizations may submit their proposals by 10 February 2017 by email to Mission Director (md-aim@gov.in) with the subject line as Proposal for Enlistment of ATL Equipment manufacturers/suppliers. All applications should be submitted online along with all relevant documents in support of their registration, relevant experience, financial information etc. For any query in this regard, please contact md-aim@gov.in.

6. Assessment criteria:

The equipment for ATL have been classified into the following four packages:

1. P1- Electronics Development, Robotics, Internet of Things, and Sensors
2. P2- Rapid Prototyping Tools
3. P3- Mechanical, Electrical, and Measurement tools
4. P4- Construction kit, Power Supply, Consumables, Accessories and Safety equipment

The revised list of components under each package is provided in ANNEX I. The components (eg- sensors and other accessories) listed under each package should be compatible with each other. The model numbers mentioned in the list of equipment are only indicative. They signify a minimum specification required to achieve a quality output. Vendors may please note that they may provide alternatives, however it should match the performance specification and quality output as indicated. Equipment providers should submit their information as per the packages listed above. In addition to the above, equipment providers having **Biomedical toolkits and Drone kits** for school may also send their details. Proposals will be evaluated on the basis of following qualifying criteria-

Qualification Criteria (QC)

- The vendor should be able to provide at least 2 packages (at least one of the package should be P1 or P2). It is preferable that the vendor is able to provide all the packages.
- Equipment Package must include installation of equipment, training to the Principal and ATL In-charge/ faculty members in the schools on handling and usage of equipment at the school site, with 2 years of comprehensive warranty and another 3 years comprehensive AMC.
- Tinkering Lab related training curriculum for different grades in School (based on your equipment/kits).
- The vendor should have provided equipment/kits, rapid prototyping tools for tinkering labs including services of installation, maintenance and equipment training to at least 40 schools in India in the calendar years 2015 and 2016.

7. Form for Proposal submission

| PART A – Technical Proposal | | |
|------------------------------------|--|--------------------|
| S. No | Item | Description |
| 1. | Name and address of organization | |
| 2. | Year of establishment | |
| 3. | Registration no and year of registration | |
| 4. | PAN/TAN no of organization | |
| 5. | No of employees | |
| 6. | Annual sales turnover of the organization | |
| 7. | No of years of experience of providing equipment. Indicate which package equipment provided – P1/P2/P3/P4 Provide details in next point | |

| 8. | Details of 40 or more schools to which tinkering lab equipment and training has been provided in calendar year 2015 and 2016 in provided table format | <table border="1"> <tr> <th data-bbox="927 226 1046 304">Name and full address of school</th> <th data-bbox="1046 226 1230 304">Name and phone number of school contact</th> <th data-bbox="1230 226 1353 304">Year of providing equipment</th> <th data-bbox="1353 226 1513 304">Type of package – P1/P2/P3/P4</th> </tr> <tr> <td colspan="4" style="height: 150px;"></td> </tr> </table> | Name and full address of school | Name and phone number of school contact | Year of providing equipment | Type of package – P1/P2/P3/P4 | | | | |
|---------------------------------|--|---|---------------------------------|---|-----------------------------|-------------------------------|--|--|--|--|
| Name and full address of school | Name and phone number of school contact | Year of providing equipment | Type of package – P1/P2/P3/P4 | | | | | | | |
| | | | | | | | | | | |
| 9. | <ul style="list-style-type: none"> • Indicate your preferred region/ states for providing ATL equipment and associated services based on your operational presence. • Number of schools that you would be able to cater. Indicate the timeline of providing equipment and associated services to these no of schools • Please also indicate if you will be willing to provide equipment and associated services to schools in non-preferred regions/States If yes, Terms and Conditions in this regard may be given separately. | | | | | | | | | |

PART B – Financial Proposal

The vendors should provide the F.O.R destination list price (excluding taxes) along with the discount offered thereon in preferred regions/States and detailed specifications for each of the following items. The vendors may also indicate the Terms and Conditions for supplying equipment/kits and associated services to schools in non-preferred Regions / States. Vendors may also indicate whether the equipment / kits offered by them are their Proprietary items. If so, a Proprietary Article Certificate (PAC) should also be submitted along with the offer.

| S. No | Item | Description |
|-------|---|-------------|
| 1. | List of all equipment and associated services relevant for ATL along with information on price, as per the packages listed in Annex I | |

Annex I – Revised List of Equipment

Package 1: Electronics Development, Robotics, Internet of Things and Sensors

| | | |
|------------------------------|---|--|
| Electronics Development | Microprocessor and microcontroller | Any hardware development board option |
| Electronics Development | Breadboards & Mini Breadboard | Solderless 400 points and 800 points (8 of each), Self-adhesive proto shield |
| Electronics Development | General Purpose Board | 30 boards of each size of A1,A2 and A3 |
| Electronics Development | USB Cables | USB Cable Set (A to B) |
| Electronics Development | 9 Volt battery, multiple resistors and capacitors for electronic projects (various sizes) | |
| Internet of Things & Sensors | IR Sensors | |
| Internet of Things & Sensors | Triple Axis Magnetometer | |
| Internet of Things & Sensors | Humidity Sensor | |
| Internet of Things & Sensors | MQ-4 Natural Gas sensor | |
| Internet of Things & Sensors | IR (transmitter) receiver - TSOP 1738 | |
| Internet of Things & Sensors | Ultrasonic Sensor Module HC-SR-04 | |
| Internet of Things & Sensors | Triple Axis accelerometer- ADXL335 | |
| Internet of Things & Sensors | PIR Motion Detector Module | |
| Internet of Things & Sensors | CMOS IR Camera Module - 728x488 | |

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|------------------------------|-------------------------------|--|
| Internet of Things & Sensors | RFID Reader - Tags | |
| Internet of Things & Sensors | RF Modules Tx& Rx 315 MHz ASK | |
| Internet of Things & Sensors | Voice Recognition | |
| Robotics | DIY Robotic kits | |

Package 2: Rapid Prototyping Tools

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|-------------------------|--|---|
| Rapid Prototyping Tools | 3D Printer Kit and tools | 1.75 mm PLA Printer, With 180mm ×200mm ×160mm Build Volume, Spatula, Tweezers, Cutter, Screwdriver, Wrench etc. |
| Rapid Prototyping Tools | Set of Arts & Crafts Accessories – eg- stationary items and basic prototyping material | |

Package 3: Mechanical, Electrical and Measurement tools

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|------------------|-------------------------|--|
| Mechanical Tools | Hacksaw | Junior |
| Mechanical Tools | Micro Chisel Set | |
| Mechanical Tools | Pliers | External Straight Nose Circlip Plier, Long Nose Plier, Combination Mini Plier, wire stripping pliers, bent nose pliers, Needle nose pliers |
| Mechanical Tools | Mini Hack Saw | |
| Mechanical Tools | Ball Pen Hammer | |
| Mechanical Tools | Steel Shaft Claw Hammer | |
| Mechanical Tools | Fiber Glass Nail Hammer | |
| Mechanical Tools | Rubber Mallet | |
| Mechanical Tools | C-Clamp | |
| Mechanical Tools | Allen Key Set | |

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|-------------------|--|--|
| Mechanical Tools | Dremel Workstation for drilling | |
| Mechanical Tools | 12 piece combination Spanner Set | |
| Mechanical Tools | 12 Piece Open ended Spanner Set | |
| Mechanical Tools | 30 Piece Ratcheting Screwdriver Set | |
| Mechanical Tools | Baby Vice 60 mm | |
| Mechanical Tools | 6 Piece Precision Screw Driver Set | |
| Mechanical Tools | Adjustable Spanner | |
| Mechanical Tools | Wire Strippers | Wire Stripper Cutter Plier With Spring -26x6x20 Cms (LxWxH) |
| Mechanical Tools | Screwdriver | Multi-purpose |
| Mechanical Tools | Tool Set | Multi-purpose |
| Electric Tools | Hot glue gun + Glue Sticks | Range in open space(Standard Conditions) : 100 Meters |
| Electric Tools | Soldering Iron Kit Temperature Controlled Soldering Station | SIM900A based Quad band GSM/GPRS modem. Accepts 12V input supply |
| Electric Tools | DC Power Supply | 0-30 V 1 A digital DC power supply with variable adjustment |
| Electric Tools | Cables | Micro USB, Mini USB, USB A-USB B, USB - USB. Each 10 pieces |
| Electric Tools | Adapters | DC power Adapter with 5V, 12V. Each 10 |
| Electric Tools | Electric Screw Driver Set | |
| Electric Tools | 1800 W Dual Temperature Heat Gun | |
| Electric Tools | Glue Guns for Tacking, Attaching and Working | |
| Measurement Tools | Return measuring tape - Stanley STHT30437 5Mx19mm Global Power Return Tape with Blister Pack | |

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|-------------------|-------------------------------------|--|
| Measurement Tools | Stainless Steel 12" / 150 mm Rule | |
| Measurement Tools | 150 mm / 6" Digital Vernier Caliper | |
| Measurement Tools | 12" Spirit Level | |
| Measurement Tools | Digital Pen Tester | |
| Measurement Tools | Digital Multi Meter | Digital Multi meter Voltage Current Resistance-Seven functions + nineteen ranges to cover = DC voltage 200mV to 1kV, AC voltage 200V-750V, DC current 200 microamp-10 Amp, Resistance 200-2meg Ohm and Transistor & diode test. AC and DC voltage, Resistance, DC amps |
| Measurement Tools | Digital Oscilloscope | Dual Trace Oscilloscope , 200 MHz, 2 Channel, 2GS/s Digital Storage |

Package 4: Construction kit, Power Supply, Consumables, Accessories and Safety Equipment

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|----------------------------|---|---------------------------------------|
| Construction kit | STEM Modular Construction kits | DIY kits |
| Power Supply & accessories | 9 volt battery clips | |
| Power Supply & accessories | Hookup Wires | Red & Black set 100 Meters each |
| Power Supply & accessories | Consumables | M-M Jumper Cables, M-F Jumper Cables, |
| Power Supply & accessories | Power Strip for power adaptors | |
| Safety equipment | Standard first aid kit | |
| Safety equipment | Fire extinguisher (handy units) | |
| Safety equipment | Safety goggles (with/without LED torch) | |