स्वदेशी MICROPROCESSOR CHALLENGE

INNOVATE SOLUTIONS FOR #आत्मनिर्भर भारत

VISIT INNOVATE.MYGOV.IN
स्वदेशी Microprocessor Challenge
Innovate Solutions for #आत्मनिर्भर भारत
VEGA Processor IP demonstration on FPGA
Scope of the स्वदेशी Microprocessor Challenge

- Start-ups, Students, innovators to use स्वदेशी processors for development of frugal solutions in the area of Healthcare, Agriculture, Environment, Office Automation, Sensors, AI/ML, Navigation, etc.

स्वदेशी Microprocessors ecosystem available for participants at MyGov portal-

1. शक्ति Processor by IIT Madras
2. वेगा Processor by C-DAC

Indicative solutions
(not limited to the following)

| IoT Based Weather Reporting System | Drones/ Robotic applications |
| IoT Based Air Pollution Monitoring System | Smart city applications |
| IoT Based Traffic Management System | Smart Water Irrigation System |
| IoT Based Garbage Monitoring System | Smart Garage Door/ Parking System |
| IoT Based Street Light Monitoring System | Touch-Based Home Automation System |
| IoT Based Early Flood Detection and Avoidance | Facial Recognition Door |
| IoT Smart Anti-theft System | Liquid Level Monitoring |
| IoT Based Health Monitoring System | Gas Pipe Leakage Detector |
| Other edge computing applications | Smart Garage Door |
| ...... etc | Smart Anti-theft System |
| ...... etc | Other embedded applications |

Peripheral IPs, Software Development Kit/ OS/ Tool-chain/ Tutorials/ Labs
**Microprocessor Challenge** - process flow for the applicants

1. **Registration by Applicants at MyGov web portal**
2. **Submission of proposal by Quarter Finalists**
3. **Evaluation of proposals by Committee**
4. **Evaluation by Committee of POC demonstration**
5. **Development of POC (Proof-of-Concept) by 100 Semi-Finalists**
6. **Incubation Support for 1 year to Winning Teams at Maker Village or Incubator nearest to their Geographic location**
7. **Announcement of 10 Winning teams**

**Development of Hw Prototype by 25 Finalists**

- Upto Rs. 1 Crore to 25 Finalists for development of Hw prototype
- Evaluation of Hw prototypes by Committee

**Proposal Development Flow**

- 100 Semi-Finalists for POC development:
  1. Swadeshi processors from C-DAC/IIT-M website & ported on FPGA
  2. Shipping of FPGA Boards
  3. Upto Rs. 1 Crore to 100 Teams for procurement of COTS

- Development of POC (Proof-of-Concept) by 100 Semi-Finalists
- Announcement of 10 Winning teams
- Incubation Support for 1 year to Winning Teams at Maker Village or Incubator nearest to their Geographic location
- Quarterly Reviews & milestone linked fund release
Timelines of स्वदेशी Microprocessor Challenge

Registration Closed/ 8-Week Quarter-Final Starts
18’Aug’20

Challenge Launch/ 4-Week Registration Starts
15’Sep 20

12-Week Semi-Final Starts
01 Jan’20

Quarter-Final End/ 6-Week Preparation Starts
01’Apr 20

Final Begins
01’June 20

Results Announced

Semi-Final End/ 4-Week Preparation Starts
01’May 20
## AWARDS

<table>
<thead>
<tr>
<th>Stages</th>
<th># of Participants</th>
<th>Award to each Participant</th>
<th>Total Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarter Final</td>
<td>100</td>
<td>Rs. 1.00 Lakh</td>
<td>Rs. 1.00 Crore</td>
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<tr>
<td>Semi Final</td>
<td>25</td>
<td>Rs. 4 Lakh</td>
<td>Rs. 1.0 Crore</td>
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<tr>
<td>Final</td>
<td>10</td>
<td>Cash Prize to top 10 Teams including the funding for next 12 months to launch their Startup/ Incubation -</td>
<td>Rs. 2.30 Crore</td>
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<td>1. Up to Rs. 35.00 Lakh, Rs. 30.00 Lakh and Rs. 25.00 Lakh to the Winning Team, 1st Runner-up Team and 2nd Runner-up Team respectively.</td>
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<td>2. Up to Rs. 20.00 Lakh to other 7 Teams</td>
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<td><strong>Award Total</strong></td>
<td></td>
<td><strong>Rs. 4.30 Crore</strong></td>
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WINNERS
Gold Certificate
Total Rs. 2.30 Crore of Seed Fund for Incubating start-up to 10 Teams.

FINALISTS
Silver Certificate
Total Rs. 1.0 Crore of Prototype Development Fund to 25 Teams.

SEMI FINALISTS
Bronze Certificate
Total Rs. 1.0 Crore of MVP/POC Development Fund and Free Access to Swadeshi Processors & FPGA Board to 100 Teams.
Thank You