## Expression of Interest (EoI)

FOR

**Developing Technology Driven Source Code Model for Addressing Human-Animal Interactions**

(Code: HCLF/Harit/15042025/AWEoI/TechSourceCode)

***HCLFoundation invites technical application abstracts for the developing technology drive source code model mobile applications and web portals for addressing human-animal interactions under the Animal Welfare thematic of Harit by HCLFoundation***

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| **EoI released by** | **HCLFoundation** |
| **EoI Code** | **HCLF/Harit/15042025/AWEoI/TechSourceCode** |
| **Programme name** | **Harit by HCLFoundation** |
| **Date of posting** | **18/04/2024** |
| **Last date for submission** | **15/05/2024** |
| **Location** | **Pan-India** |

**ABOUT HCLFOUNDATION:**

HCLFoundation delivers the corporate social responsibility agenda of HCLTech in India through its flagship programmes and special initiatives. As a not-for-profit organization, it strives to contribute towards national and international development goals, bringing about positive impact in the lives of people through long-term sustainable programmes. HCLFoundation aims to alleviate poverty and achieve inclusive growth and development through life cycle-based, integrated community development approach that focuses on Education, Health, Skill Development and Livelihood, Environment, and Disaster Risk Reduction and Response. At present, it is implementing five flagship programmes, Samuday and HCLTech Grant (Rural Development); Uday and My Clean City (Urban Development); Harit - (Environment Action) and four special initiatives of Power of One, Sports for Change, Academy and My E-Haat. For more details, please visit our website – <https://www.hclfoundation.org/>

**VISION**

To be the source code for sustainable socio-economic and environmental development.

**MISSION**

Nurture clean, green, and healthy communities where everyone is empowered and equipped to reach their full potential in partnership with its employees, communities, and stakeholders, while promoting volunteerism and establishing international standards of strategic planning, implementation and measuring impact.

**Link to Videos:**

HCLFoundation Video – <https://youtu.be/DK1wtWG_zJQ>

Harit Video – <https://youtu.be/O8YPCjdGayU>

### **Harit By HCLFoundation**

HCLFoundation launched Harit – The Green Initiative a distinct flagship programme for Environment Action; with the vision ‘to conserve, restore and enhance indigenous environmental systems and respond to climate change in a sustainable manner through community engagement’. Throughout the process, HCL Harit ensures at building scalable and replicable models that are economically viable, socially acceptable, environmentally sustainable, holistic, and inclusive. All these interventions follow ‘Participatory and Convergent Approach’ in attaining the desired results towards UN SDG goals aligned to the National Indicator Framework for SDG. Operational in nine States - Uttar Pradesh, Tamil Nadu, Karnataka, Maharashtra, Andhra Pradesh, Odisha, West Bengal, Uttarakhand, Telangana, Harit is building sustainable and inclusive models towards:

* A flourishing biodiversity, green cover and building climate resilience through afforestation.
* An abundance of water resources through rejuvenating vanishing waterbodies.
* A thriving coastal and marine habitat by habitat restoration initiatives.
* A better life for animals by improving human animal relationships and addressing animal welfare inside community areas.
* Cleaner air through reducing and neutralizing CO2 emissions.
* Protecting and preserving the environment through education, community stewardship and participation.

Till 28th February 2025, HCLFoundation has planted 862,000+ saplings on 233+ acres area across India. Around 3000+ acres of waterbody area has been rejuvenated. We worked towards improvement of coastal habitats planting 10,00,000+ Mangrove and Shelter belt saplings and retrieve around 1,70,000+ Kgs of ghost nets from marine and coastal waters. We have been able to impact lives of 116,000+ domestic and wild animals and and collected 170 kg of manjha that can potentially affect birds. Through our outreach and environment education programme we have been able to reach out to 50,000+ people pan India.

### **EoI DETAILS**

## Location: PAN-India

## A. Objective

We aim to create replicable, scalable and open-source code models that are technologically driven to address the effects of Human-Animal Interaction for the below two components. The EoI is only for addressing these through development of mobile applications, web portals, etc. for data collection, visualization and management. The detailed problem statement and suggested framework for solution is given below, but HCLFoundation wishes to partner with agency that can add value to the overall framework for developing an efficient, easy to use and potentially replicable and scalable solution

**B. Problem statement requiring solution.**

1. **Project 1: Development of a data collection and verification system which is drive by Artificial Intelligence and Machine Learning (or similar technologies) for Animal Face Detection**

Harit by HCLFoundation under its Animal Welfare thematic is partnering with various implementing agencies and Not for Profit organizations (NPO’s) to carry out Animal Birth Control (ABC) programme for street dogs. However, there is a lack of systematic data collection and verification and a high risk of both data loss and data duplication.

As technology leverage, HCLF is looking forward to collaborating with agencies that develop customized applications and web portals for data collection, visualization and management. To prevent data duplicity, the application/portal should use Artificial Intelligence/Machine Learning/Other similar solutions that can recognize each individual dog that was sterilized from the database (within a certain level of confidence) and raise an error in case the data is duplicated. This could be either through facial recognition or image recognition, however, the level of confidence in correctly identifying the individual unique dog should be at least above 60% to start with. As the model is trained with more test data and real time data, the system should also evolve and become more robust. While initial test and real-time data may come from only one or two locations (1-2) the system should be fully capable for scalability to include other locations as well. Since the application will be co-developed with HCLFoundation, technical inputs specifically for risk and vulnerability audits, will be taken time to time from senior technical staff of HCL technologies.

Preference will be given to agencies who have prior experience especially on the AI based facial/image recognition technologies. The agency should also be able to deliver quantifiable and clearly identified outputs periodically which will be mutually decided along with the technical team. The detailed parameters to be included in the data collection and web portal will be shared with the shortlisted team after finalization of the contract.

HCLFoundation has already developed a basic module for data collection and management and the proposed solution should be fully compliant with the same. The details of the existing module and its technology will be shared with the shortlisted agency, but the applicant agency is requested to share the solution currently, as a stand-alone model.

1. **Project 2**: **Development of a mobile application and web portal for collecting, visualizing and managing data related to human-snake interaction in community areas**

Around 60,000 people die from venomous snakebite in India each year and almost three times that number suffers permanent morbidity or loss of life function. This scale of conflict is unparalleled anywhere in the world. In fact, death and disability caused by all other wildlife put together amounts to less than a fifth of this. Unfortunately, despite the magnitude of the problem, there has been very little effort to understand the on-ground realities and dynamics of this conflict. Two major publications over the last 12 years have highlighted this conflict and the WHO has put snakebite on the list of ‘Neglected Tropical Diseases’. A National Action Plan for Snakebite Envenoming (NAPSE) was formulated and launched in India in 2022, in order to reduce the snake-bite related mortality and morbidity while focusing on human, wildlife and animal health.

The proposed technology drive solution should demonstrate capability for recording instances of human-snake interaction in community areas, should provide information on the nearest authorized snake rescuers, medical help and treatment center with availability of antivenom. The application should also provide simple downloadable IEC materials on common snakes of the areas (differentiating the venomous from non-venomous), basic first-aid, dos’ and don’ts, and other relevant information that will be helpful not only for general public but also frontline workers such as medical staff, snake rescuers, etc. The application should feed into a web-portal based dashboard that can be visualized and has a capacity to do basic analysis. A command center for monitoring the cases and providing urgent support in case of an emergency can also be proposed at a chosen location, but should ideally be a location which strengthens the existing government systems.

## C. Who can Apply?

## The Agency applying to develop these solutions must fulfill the following conditions:

1. The Agency may be a Government Undertaking / Registered Company / Registered Consultancy Firm / Registered Non-Government Organization / Academic Institution, specializing in developing technology based solutions
2. The Agency must have a minimum of three years’ experience of developing similar solutions. Any governmental collaboration or prior experience would be highly preferred
3. Proven track record and experience in managing multiple stakeholders and complex situations on the ground.
4. Familiarity with relevant Government Policies, UN SDGs, National Indicators Framework, NDC, Animal Birth Control (ABC) Rules, National Action Plan for Snakebite Envenoming, etc. is advantageous.

## D. How to apply:

1. All EOI must be submitted with a short narrative indicating the objectives, features, etc., proposed methodologies including strategies, past experiences, proposed team, and timeline, and clearly defined milestones along with a set of deliverables.
2. Please submit your technical proposal abstract for the projects individually andwithout any commercials along with any supporting documents (such as previous work done, domain expertise, etc.) with
	* Email subject line: EoI - Developing Technology Driven Source Code Model for Addressing Human-Animal Interactions – Project Name
	* File name: Agency Name\_Technical Proposal
	* File name: Agency Name\_Supporting Documents
3. Please note that there is no set format for submission of the proposal and the same can be submitted as Word/PowerPoint/Pdf document but should cover all aspects of the framework and scope given above along with details mentioned below (under selection criteria).
4. Send your proposals to pragati.anilgore@hcltech.com and abhishek.narayanan@hcltech.com and marking a copy to amendranath.pandey@hcl.com latest by **15th May 2025**.
5. All enquiries regarding this EoI should be made latest by **5th May 2025** via email to pragati.anilgore@hcltech.com and abhishek.narayanan@hcltech.com marking a copy to amendranath.pandey@hcl.com
6. Kindly note that incomplete and proposals submitted after the due date will not be considered.
7. Proposals which are considered non-technically compliant and nonresponsive, will not be given further consideration.

**E. Selection process and Methodology**

1. Based on the documents submitted, the technical capability of the participating agencies shall be evaluated as per the evaluation methodology indicated below. The agencies fulfilling the experience criteria and securing more than 40 marks in technical evaluation, will be further invited submission of detailed project proposal along with the budget through a closed Request for Proposals (RfP) process.
2. Selection Criteria and ranking

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| **CRITERIA FOR EVALUATION** | **SCORE** |
| Proposed Methodology | 30 |
| Experience in carrying out similar projects in last 3 years | 20 |
| Experience in Animal Welfare/ABC Projects (carrying out similar projects in last 3 years) | 20 |
| Team composition  | 15 |
| Proposed Timeline | 15 |
| **Total** | **100** |

**F. Terms and Conditions**

1. From the time the proposals are opened to the time the contract is awarded, Agencies shall not contact HCLF on any matter and any attempt to influence HCLF in its evaluation of the proposals and award recommendation, may result in rejection of the proposal.
2. Your proposal abstract must remain valid for a minimum of six (6) months from the date of expiry of the EoI deadline by HCLFoundation.
3. HCLFoundation holds us accountable to children. Adherence to comply with HCLFoundation’s Child Protection Policy and procedures with respect to child safeguarding is non-negotiable. A range of pre-onboarding checks can be undertaken in conformity with HCLFoundation's Child Protection Policy.
4. This document is an expression of interest (EoI) only, and in no way binds HCLFoundation to make an award. HCLFoundation reserves the right to reject all responses received and/or to cancel the EOI. HCLFoundation will not be obliged to either inform or provide a justification for the rejection of proposals.
5. HCLFoundation will not be liable for any cost incurred during the preparation or submission of this EOI.
6. Any agency applying should also declare conflict of interest or related party conflict with the project being assessed for impact as above, during the submission of the technical abstract. HCLFoundation reserves the right to not consider the technical proposal further, despite the merits being in the same if there is a discrepancy.