



Department of Horticulture,  
NAVBAHAR, SHIMLA-171002  
HIMACHAL PRADESH, India  
0177-2842390 (Tel.)  
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No.19-27 (EAP-HPSHIVA-E-tender-CS02)/2021

Date: 27-10-2020

Request for Expression of Interest for Consultancy Services of **Computer Assisted Drawing (CAD) Specialist** under Himachal Pradesh Subtropical Horticulture, Irrigation and Value Addition Project: Project Readiness Financing (HP SHIVA PRF) Project.

*Package No.:* CS02 [53189-001-IND]

**Package Name: PMU consultants**

1. The Government of Himachal Pradesh (GOHP) intends to apply the proceeds of an Asian Development Bank loan for the implementation of the Himachal Pradesh Subtropical Horticulture, Irrigation and Value Addition Project (HP-SHIVA). The HP-SHIVA project, comprising a Project Readiness Financing (PRF) US\$10 Million (over two years) and the ensuing loan of US \$90 Million, aims to increase the income of at least 25,000 farm households in seven districts (Bilaspur, Hamirpur, Kangra, Mandi, Solan, Sirmour and Una) of subtropical areas of Himachal Pradesh. In the long-term, the HP-SHIVA project will contribute to (i) increased income of rural households in Himachal Pradesh, (ii) strengthened climate resilience in Himachal Pradesh, (iii) expand irrigation facilities to farmers, and (iv) raise the profitability and farm gate price of subtropical horticulture production through value chain development of targeted commodities.
2. Project Readiness Financing (PRF) loan will pilot the development of high-density horticulture production at 17 sub-project sites in 4 Districts (Bilaspur, Hamirpur, Kangra and Mandi) covering 168 ha involving 600 male and female beneficiary landowning households.
3. The consultant shall be selected and engaged in accordance with the Guidelines on the Use of Consultants by Asian Development Bank and its Borrowers (Consulting Guidelines) or the ADB Procurement Policy 2017 ("Policy") and the Procurement Regulations for ADB Borrowers 2017 ("Procurement Regulations").
4. Please note that **only** on-line submission of EOI in ADB's Consultant Management System (CMS) <https://cms.adb.org> is allowed. All offline and manual submission of EOI is **not permissible**.

5. Interested consultants are invited to submit EOI in ADB CMS on or before 02<sup>nd</sup> October, 2020.

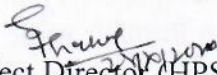
[https://selfservice.adb.org/OA\\_HTML/OA.jsp?page=/adb/oracle/apps/xxcrs/csrn/webui/CsrnHomePG&OAPB=ADBPOS\\_CMS\\_ISP\\_BRAND&\\_ti=615554355&oapc=2&oas=1jyEpd0s8WU0jj\\_OBrZtrA](https://selfservice.adb.org/OA_HTML/OA.jsp?page=/adb/oracle/apps/xxcrs/csrn/webui/CsrnHomePG&OAPB=ADBPOS_CMS_ISP_BRAND&_ti=615554355&oapc=2&oas=1jyEpd0s8WU0jj_OBrZtrA).

6. The details of consultancy assignment are-

*(Selection No.164348)*

Start Date of Publication	Deadline for Submitting EOI
27 <sup>th</sup> October, 2020	02 <sup>th</sup> November, 2020
Duration of Assignment (in Months)	Tentative commencement date
24	December, 2020
Anticipated completion date	Types of consultants
December, 2022	Independent
Selection method	Estimated Budget (USD)
Individual Consultant Selection (ICS)	<b>106,252</b>

7. For your online submission, your EOI should demonstrate technical competence and geographical experience based on project references entered under the CMS profile.
8. "Due to the outbreak of COVID-19, the commencement and completion dates and other implementation arrangements for this assignment are to be considered as indicative only. The final dates and implementation arrangements will be agreed with the first-ranked candidate at contract negotiations taking into consideration the prevailing situation with COVID-19 at that time."

  
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## CS02 PMU Technical Support –Computer Assisted Drawing (CAD) Specialist

### Terms of Reference

<b>Contract</b>	<b>CS02 PMU Technical Support - Computer Assisted Drawing (CAD) Specialist</b>		
<b>Project</b>	IND: Himachal Pradesh Subtropical Horticulture, Irrigation and Value Addition - Project Readiness Financing		
<b>Expertise</b>	Computer Assisted Drawing (CAD)		
<b>Source</b>	National	<b>Category</b>	Independent

#### Objective/Purpose of the Assignment:

1. The Government of Himachal Pradesh (GOHP) intends to apply the proceeds of an Asian Development Bank loan for the implementation of the Himachal Pradesh Subtropical Horticulture, Irrigation and Value Addition Project (HP-SHIVA) The overall HP-SHIVA project, comprising a Project Readiness Facility ((PRF) US\$10 million over two years) and the ensuing loan, aims to increase the income of at least 25,000 farm households in seven districts (Bilaspur, Hamirpur, Kangra, Mandi, Solan, Sirmour and Una) of subtropical areas of Himachal Pradesh. In the long-term, the HP-SHIVA project will contribute to (i) increased income of rural households in Himachal Pradesh; and (ii) strengthened climate resilience in Himachal Pradesh. The HP-SHIVA project will expand irrigation to farmers, increase subtropical horticulture production and its climate resilience, and raise the profitability and farm gate price of subtropical horticulture production through value chain development of targeted commodities.
2. Project Readiness Facility (PRF) loan will pilot the development of drip-irrigated high-density horticulture production at 17 locations in 4 districts (Bilaspur, Hamirpur, Kangra, Mandi) and 10 blocks incorporating 168 ha of irrigated land across 16 irrigated areas and involving 600 male and female beneficiary landowning households.
3. The PRF will have the following four outputs:
  - (i) **Output 1:** Irrigation infrastructure development and farmer management systems established. This output will be managed by DIPH. Output 1 will (a) construct or rehabilitate 16 irrigation schemes introducing innovative technologies for water extraction, distribution and storage, and enhanced climate and disaster resilience (PRF pilot); (b) establish and capacitate WUAs on the constructed irrigation schemes with women’s participation and gender equitable leadership; and (c) finalize the draft WUA act to be submitted for the HP legislative assembly’s enactment.
  - (ii) **Output 2:** Subtropical horticulture production technology and marketing systems demonstrated. This output will be managed by DOH. Output 2 will: (a) develop 17 subtropical horticulture plots covering 168 hectares, engaging approximately 600 male and female farmers for irrigated high- and ultra-high density production of citrus, guava, litchi and pomegranate (PRF pilot); (b) fence all horticulture plots to protect from animal predation (PRF pilot); (c) form CHPMA in the PRF areas and build their capacities for business/marketing; and (d) facilitate the development of CHPMA investment plans for subtropical horticulture value addition and market development.
  - (iii) **Output 3:** Enabling environment, tools and capacity for promoting irrigated subtropical horticulture provided. This output focuses on developing capacity building tools and creating an enabling environment for the implementation of the ensuing project. Specifically, the project will: (a) support DOH to prepare the Himachal Pradesh Horticulture Sector Development Strategy and Investment Plan 2023-2030; (b) provide technical training and experimental study tours, as well as investment project management including safeguards, procurement, gender, financial management and institutional strengthening for DOH and DIPH staff; (c) train CHPMA members on orchard management through preparing the packages of practice for key subtropical horticulture crops and providing on-site training; (d) provide technical support to subtropical horticulture nurseries; and (e) establish scientific and project monitoring system in the Project Management Unit (PMU).
  - (iv) **Output 4:** Enabling investment project and its implementation readiness prepared. This output will support DOH and DIPH to prepare the feasibility studies, detailed engineering design and surveys, due diligence assessment, safeguards preparation work and bid documents for the ensuing loan, supported by PRF consultants. Possible public-private



partnership pathways will be explored in collaboration with the Private Sector Operations Department as part of the ensuing loan preparation.

4. The PRF will be coordinated by Project Management Unit (PMU) led by the Department of Horticulture and including DOH and Department of Irrigation and Public health (DIPH) technical and administrative staff.
5. To strengthen the PMU project implementation capacity, the PMU will individually recruit national gender, social safeguard, environment safeguard, data management, Geographic Information System (GIS) and financial and procurement management, specialists to support the PMU with project implementation.

**Scope of Work:**

- Support the DIPH to purchase and install CAD software and train staff in its application to irrigation system infrastructure drawing.
- Support the DIPH and DOH in preparation of engineering and construction drawings for PRF and ensuing loan projects

**Detailed Tasks:**

- (i) Support the DIPH with the purchase and application of a selected CAD software program
- (ii) Systematic training of key DIPH and DOH staff in the use of the software for preparing irrigation system plans and technical drawings.
- (iii) Support DIPH and DOH in CAD drawings for subprojects.
- (iv) Prepare standard design repository for use in other similar projects by DOH and DIPH
- (v) Prepare a repository of project as constructed drawings for subproject operation and maintenance purpose

Perform other tasks as may be assigned by the Project Director.

**Output/Reporting Requirements:**

- CAD drawings for various subprojects
- PMU, DOH and DIPH staff trained in the use of CAD software

**Qualifications**

- Diploma in Civil Engineering or relevant subjects with relevant training in computer assisted drawing operations
- Experience: At least 3 years of relevant and progressive work experience in preparation of technical drawings in similar infrastructure projects (irrigation, water resources development etc.) using latest versions of computer assisted drawing software. Experience in providing training in the use of CAD software will be an advantage
- Others: Proficiency in the use of general computer applications

**Health and Safety concerns:**

“The consultant is responsible for their own health and safety in relation to the consulting services assignment and shall comply with the country specific requirements and regulations in relation to COVID-19.”

Places of Assignment:	Days Estimated	Dates (dd/mm/yyyy)
Shimla	504	1 Dec 2020 – 01 Dec 2022
Other City, India	24	
TOTAL DAYS (state if Intermittent)	528	





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No.19-27 (EAP-HPSHIVA-E-tender-CS02)/2021

Date: 27-10-2020

Request for Expression of Interest for Consultancy Services of **Geographic Information Systems (GIS) and Database Management Specialist** under Himachal Pradesh Subtropical Horticulture, Irrigation and Value Addition Project: Project Readiness Financing (HP SHIVA PRF) Project.

Package No.: CS02 [53189-001-IND]

**Package Name: PMU consultants**

1. The Government of Himachal Pradesh (GOHP) intends to apply the proceeds of an Asian Development Bank loan for the implementation of the Himachal Pradesh Subtropical Horticulture, Irrigation and Value Addition Project (HP-SHIVA). The HP-SHIVA project, comprising a Project Readiness Financing (PRF) US\$10 Million (over two years) and the ensuing loan of US \$90 Million, aims to increase the income of at least 25,000 farm households in seven districts (Bilaspur, Hamirpur, Kangra, Mandi, Solan, Sirmour and Una) of subtropical areas of Himachal Pradesh. In the long-term, the HP-SHIVA project will contribute to (i) increased income of rural households in Himachal Pradesh, (ii) strengthened climate resilience in Himachal Pradesh, (iii) expand irrigation facilities to farmers, and (iv) raise the profitability and farm gate price of subtropical horticulture production through value chain development of targeted commodities.
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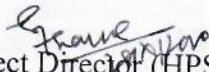
[https://selfservice.adb.org/OA\\_HTML/OA.jsp?page=/adb/oracle/apps/xxcrs/esrn/webui/CsrnHomePG&OAPB=ADBPOS\\_CMS\\_ISP\\_BRAND&\\_ti=1162241282&oapc=8&oas=24Kywr3ULAnYg0YEmAUltQ..](https://selfservice.adb.org/OA_HTML/OA.jsp?page=/adb/oracle/apps/xxcrs/esrn/webui/CsrnHomePG&OAPB=ADBPOS_CMS_ISP_BRAND&_ti=1162241282&oapc=8&oas=24Kywr3ULAnYg0YEmAUltQ..)

6. The details of consultancy assignment are-

*(Selection No. 164345)*

Start Date of Publication	Deadline for Submitting EOI
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Duration of Assignment (in Months)	Tentative commencement date
24	December, 2020
Anticipated completion date	Types of consultants
December, 2022	Independent
Selection method	Estimated Budget (USD)
Individual Consultant Selection (ICS)	<b>1,66,133.00</b>

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**CS02 PMU Technical Support – Geographic Information Systems (GIS) and Database Management Specialist Terms of Reference**

<b>Contract</b>	<b>CS02 PMU Technical Support - Geographic Information Systems (GIS) and Database Management Specialist</b>		
<b>Project</b>	IND: Himachal Pradesh Subtropical Horticulture, Irrigation and Value Addition - Project Readiness Financing		
<b>Expertise</b>	Geographic Information Systems (GIS) , Database Management , Web Development, Monitoring evaluation		
<b>Source</b>	National	<b>Category</b>	Independent

**Objective/Purpose of the Assignment:**

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#### **Scope of Work:**

The objective of the services is to develop a platform for project management, monitoring and evaluation using latest digital technologies for GIS, database management and web/mobile applications. The specialist shall

- Support Project Management Unit in activities related to development and administration of Project data base system for project monitoring and evaluation purposes.
- Design, day-to-day operation and maintenance of the geo-database system, generation of maps and other GIS-based thematic data as required by the project.
- Support the DIPH in geo-referencing project irrigation system planning information as required by the department, and support the DOH to monitor community profiles at the farmer group level and prepare reports
- Prepare training materials and user guidelines for the IT-based project monitoring system together with M&E specialist

#### **Detailed Tasks:**

- (i) Design project monitoring and evaluation system together with the M&E specialist. The system should be modular, upgradable and comparable to GIS software (preferably ESRI ArcGIS). The system should be accessible through web-based platforms, mobile phones etc,