

# **TERMS OF REFERENCE (TOR) FOR INSTRUMENTATION ENGINEERING PROFESSIONALS RELATED TO PIU-HPMC UNDER HPHDP**

## **A. Project background:**

The Government of Himachal Pradesh (GoHP), through the Government of India (GoI) has received a credit of US 135 million from the World Bank for the implementation of the Himachal Pradesh Horticulture Development Project (HPHDP). HPMC is one of the Project Implementation Units (PIU) of this project & it intends to hire the Services of Instrumentation Engineering Professionals to oversee the works related to up-gradation of Processing Plants & Cold Chain Components (both Brown Field & Green Field) of HPMC-PIU under World Bank funded Himachal Pradesh Horticulture Development Project.

The Project Development Objective (PDO) is “to support small & marginal farmers in Himachal Pradesh by providing them with state-of-the-art processing & cold chain facilities, to increase value addition of their selected Horticulture commodities”. The works under HPMC-PIU shall help these farmers to transform overall economic health of farmers so that they are more productive, efficient and profitable.

The Key Project Indicators (KPI) are: (a) Optimal utilization of Culled apples by processing for production of Apple Juice Concentrate & other fruit products (b) Helping the farmers in storage of their produce under controlled conditions in CA Stores so that they are able to better price of their produce during off-season(c) Providing them with modern machinery for sorting/ grading of Apples to increase their financial health.

## **B. Background of the Assignment:**

1. Under HPMC-PIU, existing Pack Houses, CA Stores & Processing Plants of HPMC are to be up-graded by increasing capacities & installation of Modern Machinery. New Pack Houses & CA Stores at different locations & a new Processing Plant at Parala has been planned.
2. The work involves; finalization of Tenders for Goods, timely execution of installation & commissioning works related to Plant & Machinery. The work also primarily includes operation & maintenance of
  - i) Modern Sorting & Grading machinery to carry out sorting of fruits based on size, weight & color with high precision.
  - ii) Operation & maintenance of CA store equipment to maintain precise gas regimes to maintain quality of fruits.
  - iii) Operation & maintenance of key components of a fruit processing line for extraction of juice/pulp etc.
3. HPMC-PIU intends to engage the following Instrumentation Engineering related professionals for timely execution of the various components:

S.No	Position	No. of Position
01	Instrumentation Engineer	2 No

### **C. MAIN DUTIES/RESPONSIBILITIES:**

The main responsibilities of the Engineering Professionals will include but not be limited to the following:

- 1) He / She will coordinate and oversee all the Instrumentation/ Electronics Engineering related activities and ensure that the activities are carried out as per the agreed frame work and World bank guidelines for the new machinery to be installed.
- 2) The immediate responsibility of these professionals shall be to oversee that execution of works in their respective fields in the identified sites are started as per timelines & monitoring activities are done as per contact agreement.
- 3) He / She will work in co-ordination with the vendor/ supplier and will be responsible for ensuring that all the ordered machinery is as per tender specifications & machine lay-out and shall involve themselves during execution of engineering works so as to have "hands on experience" of the systems being installed & commissioned.
- 4) He / She shall be responsible for the operation & maintenance of the machinery whether already installed or being newly installed. He / She will also impart operational & Maintenance training to the field staff.
- 5) The Engineering Professionals shall undertake extensive field visits for ensuring smooth and timely implementation of works.
- 6) Any other engineering related work as deemed crucial for the effective implementation of the project and HPMC facilities.

### **D. QUALIFICATIONS AND COMPETENCIES:**

**Essential:** Diploma in Instrumentation/ Electronics Engineering from a recognized institution.

OR

Degree in any of the above disciplines from a recognized university/ institution. Should be well conversant with computer operations.

**Desirable:** Post graduate Degree or Diploma in above disciplines & should be conversant with Computer operations.

## E. WORK EXPERIENCE:

**Table: A**

S. No	Essential Experience in all or any of the below mentioned discipline	Desirable Experience in all or any of the below mentioned discipline
01	Operation & Maintenance of CA Stores equipment related to Cold Chain Projects	Installation & Commissioning and operation & maintenance works of equipment of at-least 1000 MT Capacity CA Store.
02	Operation & Maintenance of a fully automated fruit Grading & Packing line	Installation & Commissioning and operation & maintenance works of fully automated fruit Grading & Packing line having Size, Weight & Color grading facility of at-least 05 MT per Hour capacity.
03	Operation & Maintenance of a Modern Fruit Processing Plant.	Installation & Commissioning and operation & maintenance works of Modern Fruit Processing Plant having multi fruit handling systems including Aseptic Packaging Systems, Automatic PET & other flexible packaging machines and Modern Wine/ Cider manufacturing facilities.

For candidates holding Diploma: -

- Minimum 07 years of post diploma professional experience with at-least 05 years' experience in areas mentioned in table 'A' above.

For candidates holding Degree: -

- Minimum 05 years of post degree professional experience with at-least 03 years' experience in areas mentioned in table 'A' above.

## F. LANGUAGES:

Fluency in English & Hindi is required.

## G. TRAVEL REQUIREMENTS :

The Instrumentation Engineer will be required to undertake field-visits and tours as per the project requirements.

**H. REPORTING AND PERFORMANCE REVIEW :**

The Instrumentation Engineers will report to the Additional General Manager (HPMC-PIU) . The work and performance of these professionals shall be reviewed by MD, HPMC & Nodal Officer HPMC-PIU on a periodic basis as provided in the HR Policy of Himachal Pradesh Horticulture Development Society.

**I. TIME FRAME :**

Initially the contract will be for 11 Months from the date of signing of contract agreement and may be further extended for the project period depending upon the performance of the individual.

**J. REMUNERATION AND PAYMENT TERMS:**

A fixed monthly consolidated remuneration/ consultancy fee of Rs 70,000/- will be paid to the incumbent and this monthly remuneration/fee shall be subject to applicable TDS deductions.

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