



BIDHAN CHANDRA KRISHI VISWAVIDYALAYA
PO- Krishi Viswavidyalaya, Mohanpur (741252), Nadia, W. B.

Ref. No. CAAST/18-19/05

Date: 04.02.2019

The Principal Investigator, CAAST on “Conservation Agriculture” funded by the World Bank under ICAR-National Agricultural Higher Education Project (NAHEP) is inviting quotation/expression of interest from most competent and bonafide vendors/parties/organizations/institutes/agencies having registration of GST for **Training, planning and development consultancy service - for operationalization of Massive Open Online Courses (MOOC), creation and maintenance of website and knowledge portal and interactive voice response system (IVRS) for technology dissemination through National Level Consultancy mode** under the canopy of the project objectives and premises to the **Main Campus as well as the delivery ends, F/ Agriculture, Mohanpur, Nadia- 741252** as per specifications and detailed interpretations appended below.

Terms & Conditions:

- i. Submission of quotation: The separate quotation for each item shall be submitted **within 15.02.2019 up to 5.00 pm.**
- ii. Preparation of bids: the tender should be submitted under two bids system with validity for a period of 12 (twelve) months.
- iii. Technical bids will be evaluated by the Indenter and other expert members of the office and the financial bids will be opened of those bidders who qualified in technical bids.
- iv. Price: The price of consultancy services, should be quoted in INR & net per unit (including taxes and duties, etc).
- v. Quoted rates must be FOR DESTINATION including creation of facilities as well as services at **Main Campus, F/ Agriculture, Mohanpur, Nadia- 741252** with satisfactory demonstration, operationalization and maintenance. The bidders must stipulate the delivery period of the same.
- vi. Payment will be made after satisfactorily performance of the device and services.

vii. The bidder should have experience for providing National Level Consultancy to any Government/ Semi Government organization.

viii. Important safety standards

The services must go in compliance with International Standards and protocol.

ix. Service Warranty

Warranty period minimum 1 Year or more as the case may be

x. Supporting documents

- Bid papers should accompany authorization certificate from original manufacturer, trade license, GST registration, proprietary certificate (if any) etc.
- Photocopy (self attested) of the original supporting document in favour of the specification –claim for each item must have to be submitted separately, if available.
- User list along with certificate from reputed users also need to be submitted.

xi. The Viswavidyalaya reserves the right to accept or reject any tender without showing reason.

DETAILS OF CONSULTANCY

A. Name of the Consultancy

Training planning and development consultancy service -for Massive open online courses (MOOC), creation of website and knowledge portal and interactive voice response system (IVRS) for technology dissemination

B. Requirement

One full fledged Management Information System (MIS) for MOOC with substations

C. Detail Specification and background of the Consultancy

1. **Objective:** Preparation of MOOC (massive open online course) for “Conservation Agriculture”. Target of the proposed solution is to provide online courses that are offered to very large number of persons all over the world.
2. **Target Audience:** ITI/Vocational Agriculture pass out or candidates having similar educational experiences or agripreurship.
3. **Platform:** Hired Cloud infrastructure to design and/or host the MOOC.
4. **Background:**

Conservation agriculture (CA) represents a set of three crop management principles of minimum disturbance of soil, retention of crop residues and judicious crop rotations that helps in

conserving natural resources, increasing productivity and curbing global warming even while in practice in small-holder farming systems like ours Indian conditions.

West Bengal is the home of second highest rice-fallow area (degraded old alluvial and red-lateritic zones), where CA is the only option for introducing a second crop in cropping system that helps in up keeping soil health; a seriously degraded, intensively cultivated new and old alluvial zones where adoption of CA technology is found to halt degradation of natural resources and a coastal area with huge possibility of introducing the said technology harvesting rainwater through land shaping and selecting suitable crops and cropping systems. Considering the potential of the CA technology, Bidhan Chandra Krishi Viswavidyalaya (BCKV) in association with State Directorate of Agriculture (Govt. of West Bengal) has been engaged in multi-disciplinary research in CA for quite some time not only using its own resources but also in collaboration with a few partners including Indian Council of Agricultural Research (ICAR) and some international organizations viz., ICARDA, CIMMYT, RWC-CIMMYT/IRRI (USAID Project), CSISA, UNDP, ACIAR, DAC-ICARDA-ICAR, ICARDA-IFAD and OCPF etc.

The recently launched ICAR-NAHEP is a befitting avenue for requesting funding to impart such education on CA to all concerned stakeholders viz., students, faculties, farmers and policy makers creating a Centre of Excellence through its CAAST component collaborating with global leaders and extension agencies and industries. An attempt is thus made towards this much needed end (requirement) through the present project at BCKV by establishing a multi-disciplinary Innovation Centre on Conservation Agriculture for creating the so called (CA) industry- ready human resources. And as such, the objective of the Centre is:

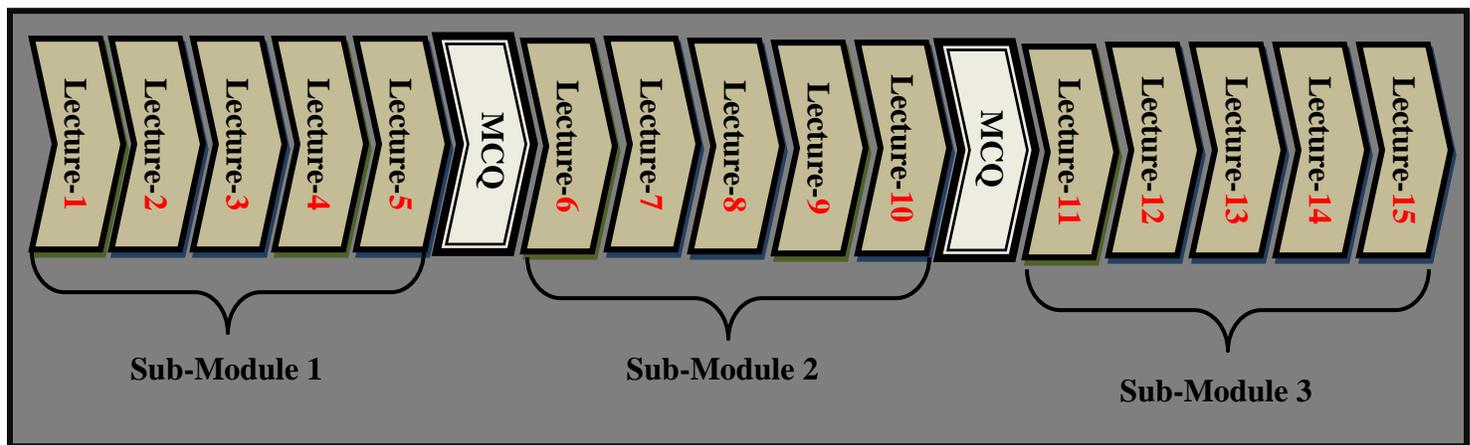
To establish a Conservation Agriculture (CA) Centre for empowering students, faculties, farmers and policy makers with the following specific purposes:

- To formulate and implement innovative courses and skill development program on CA for students, faculties, farmers and other stakeholders;
- To demonstrate, fine-tune and innovate location specific technologies on CA;
- To collaborate with national and international leaders and develop interface with industries for up-gradation and updating of knowledge; and,
- To create an ICT-based information hub, think tank and competent human resources on CA for societal causes.

5. Course Structure:

- Total Duration: Three (3) Months (Maximum)

- Number of Modules: Three (Natural Resource Management, Crop Science and Plant Protection, Social Science in the domain of Conservation Agriculture)
- Number of Lectures in each Module: Fifteen (15)
- Average duration of each Lecture: 45 Minutes
- Contents of Lecture: Video and Text.
- Languages: English & Bengali
- Modes of Delivery: Lecture video along with supporting textual information.



6. Schematic Diagram of a Single Module

7. Envisaged roles and responsibilities

- Selection of MOOC software platform.
- Customization of selected MOOC platform to cater the desired need.
- Design of MOOC in Editor and Player based arrangement in which content will be uploaded / modified using Editor Console whereas, end-user / students will use the Player console of the MOOC solution.
- Hosting and ensuring 24X7 availability of the solution.
- Arrangement of manpower for necessary customization and maintenance of selected MOOC software
- Content (video and text in multilingual) creation (by BCKV scientist).

8. Working Principle: The working principles are based on

- 1) Creation of Access to large number of potential actors without geographical boundaries
- 2) Capacity building and empowerment in incubating entrepreneurship and exerting stewardship for conservation of natural resources and acceleration of ecological functions and deliverables.
- 3) Community mobilization and operationalization through ICT intervention.

9. Steps for content creation and upload / modify using editor console are as follows:

- Registration on Editor Module.
- Login with credential.
- Uploading / modification of course module, sub-module, lecture topic etc.

N.B. Content (Multilingual video and text with watermark) will be created/modified outside of the system

10. Steps for studying MOOC modules are as follows:

- Registration on Player Module.
- Verification by the owner of the modules.
- Login with player credential.
- Selection of Course module, sub-module, lecture topic etc.
- On completion of sub-module one MCQ type evaluation needs to be completed to open the next sub-module.
- On completion of the course module provisional certificate will be issued (May be auto generated digital version or duly signed hard copy may be handed over).

The quotation/expression of interest completed in all respect equipped with all supporting documents should preferably be dropped in the box which will be kept in the Office of **Registrar and Chairman, Central Purchase Committee, 2nd Floor, Administrative Building, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, PIN- 741252** or sent by post within **15.02.2019 up to 5.00 P.M.** For any further clarifications, contact can be made with Professor Sankar Acharya (Mob: 9674419142).

Chairman
Central Purchase Committee, BCKV