

**REQUEST FOR EXPRESSION OF
INTEREST**

(CONSULTING SERVICES-FIRMS SELECTION)

For

**Monitoring and Evaluation (M&E) for
Project on Climate Resilient Agriculture (PoCRA),
Government of Maharashtra**

Notice for REOI



Government of Maharashtra

Department of Agriculture

Project on Climate Resilient Agriculture

30, Arcade, World Trade Center, Cuffe Parade, Mumbai-5

Telephone no.- 022-22163351/2

e-mail : pd.pocra-mh@gov.in

REQUEST FOR EXPRESSION OF INTEREST (REOI)

EOI No. 01-02/PoCRA/PMU/17-18

Date:12.09.2017

The Government of Maharashtra has approved a Project on Climate Resilient Agriculture (PoCRA) and applied for financing from the World Bank towards the cost of the Project. The Project Director, PoCRA now invites Expression of Interest for engagement of Consultants for the following services:

Monitoring and Evaluation

1. Monitoring and Evaluation (M&E) for PoCRA in Marathwada Region.
2. Monitoring and Evaluation (M&E) for PoCRA in Rest of the Project area.

Participatory Microplanning

1. Participatory Microplanning of Clusters selected under PoCRA in Amravati Division.
2. Participatory Microplanning of Clusters selected under PoCRA in Aurangabad Division.
3. Participatory Microplanning of Clusters selected under PoCRA in Latur Division.

The interested Consultants may obtain detailed information on scope of assignment, qualification requirement, procedure to be adopted for selection, and procedure to be followed for applying for the above mentioned Expression of Interests (EOIs) on the website: www.krishi.maharashtra.gov.in.

Sd/-

Project Director, PoCRA

Details of REOI

Country: India

Name of the Project: PROJECT ON CLIMATE RESILIENT AGRICULTURE IN MAHARASHTRA (PoCRA)

Project Number: P160408

Assignment Title:

1. Monitoring and Evaluation (M&E) for PoCRA in Marathwada Region
2. Monitoring and Evaluation (M&E) for PoCRA in Rest of the project area

Reference No.: EOI No. 01/PoCRA/PMU/17-18

SCHEDULE OF REOI

Sr. No	Particulars	Due Date	Time (Hours)
1	Publication Of REOI	12-09-2017	
2	Pre Proposal Conference	20-09-2017	11.00
3	Last Date For Submission Of REOI	27-09-2017	17.00

REQUEST FOR EXPRESSION OF INTEREST **(CONSULTING SERVICES-FIRMS SELECTION)**

Country: India

Name of the Project: PROJECT ON CLIMATE RESILIENT AGRICULTURE IN MAHARASHTRA (PoCRA)

Project Number: P160408

Assignment Title:

1. Monitoring and Evaluation (M&E) for PoCRA in Marathwada Region

2. Monitoring and Evaluation (M&E) for PoCRA in Rest of the project area

Reference No.: EOI No. 01/PoCRA/PMU/17-18

The Government of Maharashtra has applied for financing from the World Bank toward the cost of the Project on Climate Resilient Agriculture in Maharashtra (PoCRA), and intends to apply part of the proceeds for consulting services.

Background:

Government of Maharashtra (GoM) has decided to implement the World Bank aided Project on Climate Resilient Agriculture in Maharashtra (PoCRA). The project development objective is to enhance climate-resilience and profitability of smallholder farming systems in project districts of Maharashtra. The project aims to achieve the objective through promotion of climate resilient technologies and commodity value chain across approximately 4,000 drought-prone villages in 15 districts, namely, Jalgaon, Aurangabad, Jalna, Beed, Parbhani, Hingoli, Osmanabad, Latur, Nanded, Buldana, Washim, Akola, Amravati, Yavatmal, and Wardha and approximately 1000 salinity affected villages in the basin of Purna river spread across Akola, Amravati, Buldana and Jalgaon districts.

Objectives of the Assignment:

The proposed consultancy is expected to assist the Government of Maharashtra in effectively monitoring and evaluating all aspects of the PoCRA, for the entire project period of six years. The agency would be responsible for implementing the M&E framework for the project and conducting and overseeing all key evaluation activities (as listed below).

In particular:

- To create a Monitoring and Evaluation Framework for the PoCRA Project in consultation with PMU and other Line Departments,
- Track key indicators, including the development of baselines for the project and tracking changes to assess project impacts (using controls to track with and without project for comparison) as defined in TOR,
- To provide for monitoring all PoCRA Project activities for implementation, mid-term review and impact evaluation to assess progress towards achieving project's objectives and preparation of Implementation Completion Report.

The key responsibilities of the M&E agency will be to formulate the following:

1. Survey development: Methodology, stratification of sample area, selection of sample villages, identification of control area, etc.
2. Concurrent progress monitoring: of all the project activities to be conducted in accordance with the Results Framework of the Project at six-monthly intervals, and quarterly reports (if required) for process monitoring
3. Mid-term evaluation
4. End-term impact evaluation: to assess progress towards achieving project's objectives and preparation of ICR
5. Participatory monitoring
6. Special assignments (if any)

The draft Terms of Reference (ToR) (ToR is Indicative and will be revised before issue of RFP) for this assignment is enclosed with this document.

Project Director, PoCRA now invites eligible consulting firms (“Consultants”) to indicate their interest in providing the abovementioned Services. Interested Consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the Services.

The short listing criteria are:

- a) Firm should be in existence and in the business related to the assignment for at least 10 years by the date of submission of EOI.
- b) Experience of the firm in similar type of assignments relevant to this consultancy, especially in externally aided projects, in India and other countries completed/in progress in past 10 years with documentary evidence, including copies of the contracts.
- c) Availability of appropriate skills among key personnel (Available within the firm), team composition etc, as given in the TOR
- d) Firm expressing interest should have an average annual turnover of INR 3 Crore or more in previous five financial years i.e. from 2012-13 to 2016-17. The firm shall submit audited balance sheet for the same.

The project proposes to engage two M&E Consultants, one for Marathwada Region (comprising of 8 districts namely, Aurangabad, Jalna, Beed, Osmanabad, Latur, Nanded, Parbhani, and Hingoli) and one for the Rest of the project area (comprising of 7 districts namely, Amravati, Akola, Washim, Buldana, Yavatmal, Wardha, and Jalgaon). Consultants interested in more than one region need to submit Expression of Interest separately for each region, clearly marking region they are interested in.

The attention of interested Consultants is drawn to Section III, paragraphs, 3.14, 3.16, and 3.17 of the World Bank’s Procurement Regulation for IPF Borrowers, July 2016 issued by World Bank, setting forth the World Bank’s policy on conflict of interest.

(<https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid=4005&ver=curent>)

Consultants may associate with other firms in the form of a joint venture or sub-consultancy to enhance their qualifications.

A Consultant will be selected in accordance with the Quality and Cost Based Selection (QCBS) method set out in the World Bank’s Procurement Regulation for IPF Borrowers, July 2016 issued by World Bank.

Expressions of interest must be submitted on the address below **on or before 27.09.2017 up to 17.00 hours.**

It is proposed to hold a pre-proposal conference on **20.09.2017** at 11.00 a.m. at below mentioned address for clarification on the above EoI.

**-Sd-
Project Director
PoCRA**

Address:

Project Director,
Project on Climate Resilient Agriculture,
30, Arcade, World Trade Center, Cuffe Parade,
Mumbai-400005
Email id: pd.pocra-mh@gov.in
FAX: 022-22163351

Terms of Reference

for

Monitoring and Evaluation (M&E) for Project on Climate Resilient Agriculture (PoCRA) in Marathwada Region and the Rest of the Project Area

1. Background:

Agriculture is the primary source of livelihood in the State of Maharashtra. The state has 17.4 million ha of land under cultivation. About 84% of the total area under agriculture is rainfed and is directly dependent on the monsoon. The proportion of irrigated area in the State is only around 16%, as opposed to the national average of 38% (RKBY Plan). About 49% of landholdings fall in less than one-hectare 'marginal' category (Agriculture Census, 2011).

This project would attempt transformational changes in the agriculture sector by scaling-up climate-smart technologies and practices at farm and (micro) watershed level, that would contribute to drought-proofing and management of lands in states' most drought and salinity/sodicity-affected villages. The project would focus on smallholders (farmers up to 2.0 ha of farmland) with particular focus on vulnerable population whose livelihood is impacted by changing climate conditions and climatic uncertainties.

The Government of Maharashtra with support from the World Bank will lead the implementation of PoCRA (2018-2023). The project will be implemented through the convergence of various line departments of the Government of Maharashtra.

The project is being implemented in 15 districts in Maharashtra namely, Jalgaon, Aurangabad, Jalna, Beed, Parbhani, Hingoli, Osmanabad, Latur, Nanded, Buldana, Washim, Akola, Amravati, Yavatmal, and Wardha and approximately 1000 salinity affected villages in the basin of Purna river spread across Akola, Amravati, Buldana and Jalgaon districts.

2. Project Objective:

The **Project Development Objective (PDO)** is *to enhance climate-resilience and profitability of smallholder farming systems in selected districts of Maharashtra*. PoCRA is built around a comprehensive, multi sector approach that focuses specifically on building climate resilience in agriculture through scaling up tested technologies and practices, while generating the following interdependent triple win solutions:

- a. enhanced water security at farm level - through the adoption of technologies for a more efficient use of water for agriculture, the increase in water storage capacity (surface and sub-surface) and the improvement in water distribution structures to address on-farm water availability and reduce the risks associated with intra- and inter seasonal climate variability;
- b. improved soil health - through the adoption of good agricultural practices to improve soil fertility, soil nutrient management, and promote soil carbon sequestration; and
- c. increased farm productivity and crop diversification - through the adoption of climate-resilient seed varieties (short maturity, drought and heat resistant, salt tolerant) and market-oriented crops with a clear potential for income security derived from the integration of farmers in corresponding value-chains.

3. **Project Components:** The project is designed for implementation through the following components and subcomponents:

- Comp.A: Promoting Climate-resilient Agricultural Systems

- A.1: Participatory development of mini watershed plans.
- A.2: On-farm climate-resilient technologies and agronomic practices.
- A.3: Climate-resilient development of catchment areas

Comp.B: Climate-smart Post-harvest Management and Value Chain Promotion

- B.1: Promoting Farmer Producer Companies
- B.2: Strengthening emerging value-chains for climate-resilient commodities
- B.3: Improving the performance of the supply chain for climate-resilient seeds

Comp.C: Institutional Development, Knowledge and Policies for a Climate-resilient Agriculture

- C.1: Sustainability and institutional capacity development
- C.2: Maharashtra Climate Innovation Centre
- C.3: Knowledge and policies

Comp.D: Project Management.

The detailed project sub-components and activities are attached in Annexure-2.

4. **Monitoring & Evaluation for PoCRA:**

The key building blocks of the M&E system will comprise of: (a) the results framework for the project including Key Performance Indicators (KPIs); (b) a baseline survey for sampled clusters; (c) impact evaluation studies for sample Cluster Development Plan (CDP); and (d) midline and endline surveys.

The Project Management Unit (PMU) will have the responsibility for planning and coordinating M&E activities for the entire project. It will have an M&E expert in the PMU to coordinate with field units and external consultant responsible for M&E.

To achieve the above-mentioned objectives, the key approach is to have external Monitoring and Evaluation agencies along with MIS and GIS products designed to store, track, analyse and present data and information. The introduction of external M&E agencies and well designed web enabled MIS and GIS products will help the Project Management Unit (PMU) to gain an external perspective of the work being carried out under the project.

The PMU, therefore, proposes to engage two M&E agencies- one for Marathwada Region and one for the rest of the project area. The number of districts and villages covered under both the regions are follows:

Region	No of districts	No of villages
Marathwada	8	3088
Rest of the project area	7	2054

5. **Scope of Work:**

The agencies will work in close coordination with PMU under the supervision and guidance of the Project Director for the attainment of project's goal. They will serve as the main focal point for all monitoring and evaluation related activities for the PoCRA project, and will assist and

report to the Project Director (PD) regarding the Monitoring and evaluation of project activities implemented by the project. The M&E Agency's responsibility will be to carry out monitoring and evaluation of all the project activities to be conducted in accordance with the Results Framework of the Project.

At present, PMU has estimated the requirement of sample size for baseline, concurrent monitoring, Midterm Impact assessment and Final impact assessment which is given in section 6.1. The sample sizes mentioned is distributed in Marathwada and the rest of the project area in a proportion of about 2:1

However, the sample methodology to be adopted, exact percentage of the sample size to be taken in project and control villages will be finalised by the agency after consultation with the PMU. The Agencies, as part of their proposal, will submit an initial inception report and implementation strategy for review, covering the detailed deliverables with timelines for activities as described below.

6. Objectives of the Assignment:

The proposed consultancy is expected to assist the PMU in effectively monitoring and evaluating all aspects of the PoCRA, for the entire project period of six years. The agency would be responsible for implementing the M&E framework for the project and conducting and overseeing all key evaluation activities (as listed below).

In particular, to create a Monitoring and Evaluation Framework for the PoCRA Project in consultation with PMU and other Line Departments, track key indicators, including the development of baselines for the project and tracking changes to assess project impacts (using controls to track with and without project for comparison) as defined in the PIP, to provide for monitoring all PoCRA Project activities for implementation, mid-term review and impact evaluation to assess progress towards achieving project's objectives and preparation of ICR.

7. Key Responsibilities & Deliverables

The key responsibilities of the M&E agency will be to formulate the following:

1. Survey development: Methodology, stratification of sample area, selection of sample villages, identification of control area, etc.
2. Concurrent progress monitoring: of all the project activities to be conducted in accordance with the Results Framework of the Project at six-monthly intervals, and quarterly reports (if required) for process monitoring
3. Mid-term evaluation
4. End-term impact evaluation to assess progress towards achieving project's objectives and preparation of ICR
5. Participatory monitoring
6. Special assignments (if any)
7. Environment and Social Management Framework (ESMF) Audit

The following are the detailed assigned deliverables under this engagement:

1. Survey development:

With regards to baseline survey sampling, PoCRA will be focused on selected clusters in identified project districts. For getting a good geographical spread, which will automatically

result in coverage of all the agro-climatic zones in which the project area is based, it is important that the baseline be conducted in each of the 15 districts covered under PoCRA. Of the total 670 mini watershed clusters in PoCRA, the baseline shall be conducted in 150 clusters. The spread of the 150 clusters into 15 districts shall be determined through Probability Proportional to Size (PPS) In each of the clusters, the baseline survey shall be conducted in 2 villages. This implies that a total of 300 villages shall be chosen for conducting the baseline. In each of the villages, 60 households will be covered in the baseline study.

The M&E agency shall also choose another 10 villages per district outside the purview of PoCRA, as the control group. In each of the control villages too, the baseline shall be conducted in 60 households per village.

Thus, the baseline study shall be conducted in all project villages and 150 control villages. Choice of villages should reflect socio-economic as well as bio-physical diversities.

Using the Results Framework, the Agency will propose, as part of their proposal submission, a detailed methodology for survey sampling including stratification (e.g., power calculations, sample size determination) to inform the sampling strategy (incl. treatment and control groups), selection of sample area, selection of villages and households, identification of control areas; and cost estimate to study the impact and to measure the desired changes expected by the project intervention.

To inform the surveys, the agency will be responsible for compiling secondary data and reports to inform the baseline survey (e.g. including previous census surveys, and other surveys conducted by the government agencies for other such similar projects implemented in the selected project area).

The agreed sampling strategy and size will be finalized in collaboration and consultation with PMU and the World Bank. The Agency will be fully responsible for and accountable to the PMU, for ensuring the roll-out, training and proficiency of survey to field teams to conduct the surveys; securing of office and computer equipment for survey management and data entry; arranging for transportation, other enumerator travel and lodging costs and equipment related to household listing and survey interviews; ensuring proper maintenance and functionality of all vehicles and equipment; and GPS devices to record location of households of all surveys.

2. Concurrent progress monitoring:

This will involve monitoring and evaluation of all the project activities to be conducted in accordance with the Results Framework of the Project, at six-monthly intervals and submission of quarterly reports (if required) for process monitoring. This is expected to provide a level of quality assurance and process monitoring for PoCRA activities to inform (a) high-level officials, senior management and development partners an impartial view on the implementation of PoCRA; (b) assess the implementation of PoCRA guidelines, norms and practices based on measuring all the results indicators across the project M&E framework; (c) identify policy level issues (if any) to ensure the effective implementation of PoCRA. Furthermore, the Agency will use a diverse range of methods to capture data on the Project through the project MIS to generate monthly reports for project reporting (Half-yearly reporting). The agency will complement this with random reviews/spot-checks/audits every 3-6 months (as required or requested by PMU) from the commencement of the project to provide independent validation of internal reports as produced by the Project (across all levels of implementation).

This will be used to inform: (a) recommendations for corrective measure in implementation; (b) assess gaps in inbuilt process monitoring and evaluation system. The reports generated would be

in sync with and will be submitted to PoCRA PMU before every Implementation Support Mission of the World Bank.

2.1 Baseline Report: The deliverable for this component is the timely delivery of the supervisor's weekly progress reports. Successful implementation of the baseline household data collection in all of the planned sample locations (as given above) includes the dataset containing all of the data coded from the village, including complete data from the listing exercise, household, FIGs, village and cluster level surveys. The timeline for this would be detailed and finalized in consultation with the PoCRA PMU office.

3) Mid-term Impact Assessment Reports: The deliverable for this component is the report preparation and submission of the survey data collection, including the information detailed above, at the mid-term of the project. The deliverable will also include the databases, including the listing data, household data, village data, agriculture and crop data (statistical), with data correctly organized, variables named and labelled and appropriate identifiers that permit seamless merging between databases. Conduct final cleaning of data and final data delivery report (a) identify incomplete households and redundant observations; (b) ensure all components are correctly linked – datasets can be merged cleanly; (c) final completion numbers and (d) completion inventory. These reports would be generated at the mid-term of the project, as mid-term impact evaluation report. This report would be validated and submitted to the PoCRA PMU.

4) Final Impact Assessment Report: The deliverable for this component is the final databases and final report at the end of project year. The Agency will be expected to submit reports to the PoCRA project management office alongside the database established during this process will be made available electronically to the PoCRA. It will be the property of the PoCRA and the World Bank, and must allow for modification and generation of reports. The survey Agency will be expected to make formal presentations to PMU on completion of all the deliverables.

5) Participatory monitoring: The main objective of participatory approach to monitoring and evaluation is to obtain feedback from stakeholders on whether they are realizing the intended benefits. This will be a part of process monitoring, and will aim at community level activities captured through participatory monitoring and social auditing. This will make use of a number of techniques and tools, selected and combined to suit the objectives of the M&E work and the resources available, and will eventually be fed into the MIS system.

6) Special Assignments: During the Project, component wise requirements will evolve, and will be customized as required. These special assignments will also be carried out by the agency, as directed by PMU.

7) Environment and Social Management Framework (ESMF) Audit : The Environmental and Social Management Framework (ESMF) is prepared to address the concerns of all stakeholders, guiding the project in implementation of major activities in line with the identified risk mitigation strategies, making the interventions socially and environmentally sustainable and to ensure that the outcomes of the project are realized in order to benefit the small holders and marginalized sections of the project locations. This will be the part of process monitoring.

8. The universe and the sample Size

The project on climate resilient agriculture will be implemented in the 15 drought prone rainfed districts of Maharashtra covering about 5142 villages in around 670 clusters. Therefore the sample size for different M&E activities are proposed as follows:

M &E Events	Sample –Villages		Sample households per village	
	Project Villages	Control Villages	Project	Control
Baseline	300	150	60	60
Concurrent progress monitoring 1 (Yr 1)	67 clusters* i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	5	5
Concurrent progress monitoring 2 (Yr 1)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	5	5
Concurrent progress monitoring 3 (Yr 2)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	20	20
Concurrent progress monitoring 4 (Yr 2)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	20	20
Concurrent progress monitoring 5 (Yr 3)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	30	30
Mid Term Evaluation	300 villages (150 Same as Baseline and 150 Random Selection)	150 (Same set of samples as Baseline)	60	60
Concurrent progress monitoring 6 (Yr 3)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	30	30

Concurrent progress monitoring 7 (Yr 4)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	20	20
Concurrent progress monitoring 8 (Yr 4)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	20	20
Concurrent progress monitoring 9 (Yr 5)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	20	20
Concurrent progress monitoring 10 (Yr 5)	67 clusters i.e 600 villages (300 same as Baseline, 300 new)	150 Random Selection	20	20
Final Impact Assessment Report	300 Villages (150 same as Baseline and 150 Random Selection)	150 (Same as baseline and mid-term)	60	60
SEMF Audit	90 Clusters (Random Selection)		60	60

*67 clusters have been chosen in each of the 10 concurrent progress monitoring exercises so that a total of 670 clusters (which is the population) will stand covered during the project period. There is an average of 8 villages per cluster and hence 600 villages have been chosen for the concurrent monitoring.

9. Team Composition & Implementation Arrangements:

Specialists in monitoring and evaluation, economics, agriculture, social science, statistics, engineering, hydrology, Agribusiness and environment would constitute the core team of the agency. It is important that the staff should have considerable experience (at least 10 years in senior positions and at least 5 years for others) in implementing an M&E system and this should be indicated in the CVs of key personnel to be deployed. Details of requirement of the main experts are indicated below:

Sl. No	Experts	Minimum Qualification	Minimum Experience
1	Monitoring & Evaluation Expert (Team Leader)	PG in Agriculture, Social Science, or Engineering	10 years of experience in natural resources management/climate change adaptation areas; (ii) Experience of result based management approach, and project

			cycle management; (iii) Experience of developing community based monitoring systems and tools development; and (iv) Experience in leading M&E teams.
2	Agronomy Expert	Postgraduate in agriculture	10 years of experience dryland agriculture and farming systems, and having knowledge of both traditional practices and modern techniques for improving water use efficiency and agricultural productivity. Experience in rural water sector and having knowledge about environmental and natural resource management issues and compliances.
3	Agri-business Expert	Postgraduate in Agribusiness	10 years of experience in value chains and agricultural markets
4	Agri Economist	Postgraduate in Agriculture or Economics	10 years of experience in agriculture, economic analysis of irrigation and water management projects and practical understanding of field level issues and capacity to undertake financial and economic cost benefit analysis.
5	Social Development Expert	Postgraduate in Social Science	10 years' experience in water and agriculture sector, community based organizations, gender and tribal issues, and rehabilitation and resettlement issues.
6	Statistical Expert	Postgraduate in Statistics	10 years of experience of developing statistical design of studies, sampling frameworks, data analysis, interpretation of findings and presentation in graphics. Ability to use automated software for statistical analysis, capable of handling Big Data.
7	GIS/MIS Expert	Postgraduate in Computer Science, Geoinformatics, Geography	7 years of experience in MIS, GIS/ RS field. Should be able to operate different GIS software and prepare GIS/RS map.
8	Engineering Expert	BE/B.Tech in Civil Engineering	10 years of experience in water sector in irrigation planning, and management, soil water conservation.
9	Hydrology Expert	BE/B.Tech in Civil Engineering/Hydrology	10 years of experience in watershed sector and hydrological planning and management.
10	Environment Expert	Post Graduate in Ecology / Environment / or BE / B.Tech in Environment Engineering	7 years of experience in Climatology, Irrigation management and hydrological planning and modelling.

Consulting firms need to engage adequate number of Non –Key experts depending on the approach and methodology proposed for carrying out the assignment.

No change in personnel without the prior concurrence of PMU would be accepted.

10. Deliverables, timeline and Payment Schedule:

No	Deliverables	Schedule of delivery	Payment Schedule (Percentage of the total proposal cost)
1.	Submission of Inception Report	Within 15 days of the signing of the contract	One payment of 5% on the submission of the Inception Report (approved by PoCRA and World Bank) along with submission of Bank Guarantee of equal amount to be released after One Year.
2.	Completion of Baseline Survey and Report	Completed within 6-months of PoCRA Project Implementation	One payment of 10% on the submission of the Baseline Survey and Report (approved by PoCRA and World Bank)
3.	Completion of Mid-Term Survey and Report	Completed one month prior to mid-term project implementation	One payment of 10% on the submission of the Mid-Term Survey and Report (After approval of PoCRA in consultation with World Bank)
4.	Concurrent Progress Monitoring Across ALL Project Components (10 Concurrent Monitoring Reports)	Within 15 days of Every Six months of project implementation throughout the Project cycle	10 Payments of 5% each at the End of Each Six month on 1 submission of Concurrent Progress Monitoring (After approval of PoCRA in consultation with World Bank) Six monthly concurrent Monitoring report
5.	Final impact assessment for the whole project, capturing all result indicators and economic and financial analysis for the project.	One Month Prior to the closure of Project	One Payment of 20% on the submission of the report, (After approval of PoCRA in consultation with World Bank).
6.	Final audit to assess the implementation of Social and Environment Management Framework (SEMF) of the project.	One Month Prior to the closure of Project	One payment of 5% on the submission of the report, (After approval of PoCRA in consultation with World Bank).

11. Composition of Review Committee to monitor work of consultant

A committee comprising of the following members shall monitor the Consultant's work and would be responsible for making available the data and information, conveying approvals and also deal with the problems if any faced by the Consultant in executing the Contractual obligations: (a) Deputy Project Director, PoCRA (b) M&E Specialist, PoCRA and (c) MIS Specialist, PoCRA (d) Procurement Specialist, PoCRA. The Committee shall co-opt any additional members if needed.

Annex 1: PoCRA Results Framework Indicators

PDO Level Indicators	
1. Climate resilient agriculture: Farmers adopting improved agricultural technology	
	Farmers adopting improved agricultural technologies promoted (CRA) (% targeted farmers) (% share of female)
2. Climate resilient agriculture: Improved water-use efficiency at farm level	
	Area provided with new/improved irrigation or drainage services (in ha)
3. Climate resilient agriculture: GHG Accounting	
	Net GHG emissions (in tCO ₂ eq/ha)
4. Profitability: Annual farm income	
	Farm income comparator (as ratio with/ without farm income)
5. Direct project beneficiaries	
	Number of farmers reached with agricultural assets or services (% of female)
Intermediate Outcome Indicators - Component A: Promoting Climate-resilient Agricultural Systems	
6. Climate resilient agriculture: improved yield uniformity and stability	
	Spatial and temporal yield variability for crop A (std. deviation of avg. yield in kg/ha)
	Spatial and temporal yield variability for crop B (std. deviation of avg. yield in kg/ha)
7. Climate resilient agriculture: Improved availability of water for agriculture	
	Surface water storage capacity from new farm ponds (in 1,000 m ³)
8. Climate resilient agriculture: Enhanced soil health at farm level	
	Area with GAPS for improved management of saline and sodic soils (in ha)

Intermediate Outcome Indicators - Component B: Climate-smart Post-Harvest Management and Value-chain Promotion
9. Seeds supply: Promotion of climate resilient crop varieties
Share of arable land under cultivation with improved seed varieties (in %)
10. Farmer Producer Companies: Strengthened and financially sustainable FPCs
Number of project-supported FPCs with growth in annual profit
Intermediate Outcome Indicators - Component C: Institutional Development, Service Delivery and Knowledge for Climate-resilient Agriculture
11. Research and Extension: Mainstreaming climate-resilience in agricultural research and technical advisory services
Number of updated district SREPs centered around climate resilience (x out of 15)
12. Climate Innovation Center: Private sector participation
Number of clients (FPCs, SMEs, ...) receiving services from the CIC
Cross-cutting Indicators
13. Beneficiary Participation and Civic Engagement
Number of approved participatory mini watershed plans implemented / under implementation

Annexure-2.- Detailed list of Components, sub-components, and proposed list of activities under each of them

Project Components, subcomponents and activities	
A- Promoting Climate Resilient Agriculture Systems	
A1. Participatory development of mini watershed plans	
A2. Climate smart agriculture and resilient farming systems	
	1. Demonstration of climate smart agronomic practices(CSAP) through FFS approach
	2. Enhancement in Carbon Sequestration
	3. Improvement of saline and sodic lands
	4. Protected Cultivation
A3.Promoting Efficient and sustainable use of water for agriculture	
	1. Catchment treatment
	2. Drainage Line Treatment
	3. Construction of new water harvesting structures
	4. Rejuvenation or desilting of existing water harvesting structures
	5. Construction of groundwater recharge structures
	6. On-farm water security
	7. Micro irrigation systems
	8. Protective Irrigation
B- Climate –resilient Post –harvest management and value chain development	
B1.Strengthening Emerging Value-chains for Climate-resilient Commodities	
	1. Preparation of Development Plan of FIGs/FPOs/FPCs
	2. Strengthening of existing FIGs/FPOs/FPCs
	3. Developing market linkages
	4. Establishment of Custom Hiring Centers
B2.Strengthening Emerging Value-chains for Climate-resilient Commodities	
	1. Support to FPCs for product aggregation, handling, transformation & marketing
B3.Improving the Performance of the Seed Supply Chain	
	1. Development of seed hub- infrastructure support
C.-Institutional Development, Knowledge and Policies for Climate-resilient Agriculture	
	1.Updation of SREPs aligned to mini-watersheds
	2. Agro-met advisory services
	3. Developing and testing agricultural
	4.Technologies and practices for climate-adaption
	5.On-farm participatory action research
	6.Maharashtra Climate Innovation Centre
	7. Training of stakeholders including farmer friends, beneficiaries, project personnel, supervisory officers and PMU officials
	8. Exposure visit for stakeholders
D- Project Management	
	1. Project Management and Support
	2. Monitoring and Evaluation
	3. Information, Communication Technology