

Tender

FOR

**“Digital Monitoring of Agriculture, Crop Acreage and Production
Estimation for Gujarat State Using Remote Sensing, GIS and Other
Technologies”**

Tender Notice No: Ecostat/Forecast/RS/3/2023

**Directorate of Agriculture
Agriculture, Farmers welfare and co-operation Department
Government of Gujarat**



**Directorate of Agriculture
Krishi Bhavan, Sector 10A, Ch Road,
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DISCLAIMER

The information contained in this Tender Document (hereinafter referred to as "Tender") provided to the bidders, by Directorate of Agriculture, Gujarat (DAG) (hereinafter referred to as "The authority") or any of their employs or advisors, is provided to the Bidders on the terms and conditions set out in this Tender Document and all other terms and conditions subject to which such information is provided.

The purpose of this Tender Document is to provide the Bidders with information to assist the formulation of their bids. This Tender document does not purport to contain all the information each Bidder may require. This Tender document may not be appropriate for all persons, and it is not possible for the authority, their employees, consultants or advisors to consider the business / investment objectives, financial situation and particular needs of each Bidder who reads or uses this Tender document. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this Tender document and where necessary, bidder has to obtain independent advice from appropriate sources. The authority, their employees, consultants, and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the Tender document.

The authority reserves the right to reject any or all of the applications submitted in response to this tender document at any stage without assigning any reasons whatsoever. The authority also reserves the right to withhold or withdraw the process at any stage with intimation to the bidders who submitted the tender application. The authority reserves the right to change/ modify / amend any or all of the provisions of this tender document. Such changes would be communicated to the bidders. Information provided in this document or imparted to any respondent as part of the tender process is confidential to the authority and shall not be used by the respondent for any other purpose, distributed to or shared with any other person or organization.

The authority may, in their absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this Tender document. The authority may at its sole discretion decide, without giving any reason whatsoever to cancel this tender and Earnest Money Deposited (EMD) in such an event would be refunded to the bidders.

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1 Notice Inviting on-line Tender

Details about Tender: Tender Notice No. Ecostat/Forecast/RS/3/2023

Name of the Department	:	Directorate of Agriculture
Contact Address	:	Directorate of Agriculture, Krishi Bhavan, Sector 10A, Ch Road, Gandhinagar 382010, Gujarat
IFB No. / Tender Notice No.	:	Tender Notice No. Ecostat/Forecast/RS/3/2023
Name of Project	:	"Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies"
Project Location	:	Gujarat State
Project Period	:	5 Years
Bidding Type	:	Open
Bid Call (Nos.)	:	1
Tender Currency Type	:	Single
Tender Currency Settings	:	Indian Rupee (INR)
Rebate	:	Not Applicable
Amount Details		
Bid Security / EMD (INR)	:	INR. 6 Crores/- (Rupees six crore Only) by DD/ Bank Guarantee valid for 180 days from the submission of financial bid. As per standard Bank Guarantee Format.
Bid Security / EMD in favour of	:	Director of Agriculture Payable at Gandhinagar
Tender Dates		
Bid Document Downloading Start Date	:	
Bid Document Downloading End Date	:	
Pre Bid meeting	:	at Office of the Directorate of agriculture, Krushi Bhavan, Gandhinagar
Last Date & Time for Receipt (Submission) of Bids	:	As per tender details on GEM Website

Submission of prequalification and technical bid documents	:	Submission of EMD, and Other Documents on or before bid submission date at the office of the Director of Agriculture, Krishi Bhavan, Sector 10A, Ch Road, Gandhinagar 382010, Gujarat
Date of Prequalification & Technical Bid opening	:	As per tender details on GEM Website
Date of Financial bid Opening	:	As per tender details on GEM Website
Bid Validity Period	:	180 days from the submission of financial bid
Remarks	:	Bidder has to submit signed and stamped document on GEM portal including technical and Financial Price Break up on GEM Portal.
Other Details:		
Officer Inviting Bids	:	Director of Agriculture, Krishi Bhavan, Sector 10A, Ch Road, Gandhinagar 382010, Gujarat

2 General Terms and Conditions

- 1) Bidders can download the tender document free of cost from the GeM portal.
- 2) Bidders have to submit financial offer in electronic form only on GeM portal till the Last Date and Time for submission specified.
- 3) Financial offers in physical form will not be accepted in any case.

Government e-Marketplace (GeM) is the National Public Procurement Portal for providing procurement of goods & services required by Central & State Government organizations. It provides the tools of e-bidding, reverse e-auction and demand aggregation to facilitate the government users achieve the best value for their money. GeM intends to hire an agency for providing service related to mentioned scope of work.

Other Terms and Conditions as per detailed tender documents

3 Invitation of Bids

- 1) Directorate of Agriculture, herein after referred to as “The Authority” now invites bids from the qualified bidders only for the project “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies”.
- 2) The bidders may obtain further information from and inspect the bidding documents at the office of the Director of Agriculture, Krishi Bhavan, Sector 10A, Ch Road, Gandhinagar 382010, Gujarat during office hours only.
- 3) A complete set of bidding documents may be downloaded from the GeM portal as specified.
- 4) Detailed terms and conditions as well as the technical specifications for all items as indicated in the invitation to financial bid are contained in the bidding documents. The bidder MUST quote as a whole.
- 5) The authority shall not take the responsibility for any delay in receipt of the bidding document if it is sent by post.
- 6) The bids will be opened in the presence of those bidders or their authorized representative who choose to attend pre- bid meeting at the office of DAG, Gandhinagar on the specified date and time.
- 7) The authority at its sole discretion and without assigning any reason there of reserves the right to accept and/or reject any or all bids. The authority also does not bind to accept the lowest bid.
- 8) After the award of contract as per procedure envisaged in the tender, no consideration will be entertained for any addition of cost for any deviation at any stage.
- 9) The authority at its sole discretion and without assigning any reason there of reserves the right to cancel the tender document either wholly or partially.

Note:

- 1. Please address all queries and correspondence to the Director of Agriculture, Krishi Bhavan, Sector 10A, Ch Road, Gandhinagar 382010, Gujarat.**
- 2. If the Office of the DAG happens to be closed on the day of receipt of the bids as specified, the bids will be received and opened on the next working day on opening of the Office up to the same time and at the same venue.**
- 3. Please quote Tender Reference Number in all your correspondence.**

3.1 General Instruction

- 1) Bidders who wish to participate in this bid will have to register on GeM portal.
- 2) A complete set of bidding documents may be downloaded from the website.

PART-I Prequalification Bid:

The envelopes containing EMD should be enclosed in an envelope duly sealed and super scribed with PRE-Qualification Bid.

Note: Filling up commercial in Part I will render the Bidder disqualified.

PART-II Technical Bid:

The documents pertaining to technical bid should be enclosed on GEM portal with Technical bid. All pages of the offer/ bid must be signed by the authorized person (enclosed with authority letter). The copies of all the documents related to work orders/P.O./Completion certificates, turnover, references etc. should be attested by the authorized signatory. The Technical Bid must also contain following documents:

- 1) Name of officials and list of team members (experts) with their bio data & role to be played in the project duly signed by authority.
- 2) Year wise list of projects executed/being executed giving technical details & cost of each project with certificate from each project client to this effect, during the last five preceding years.
- 3) Certificate from the project client for award of contract and stage of satisfactory project completion (in terms of value) in original or its self-certified copy for each project claimed, during the last five preceding years.
- 4) A detailed work plan confirming capability of the company to execute the work within the time limit after award of contract.

Part III (Financial Bid):

Bidder shall submit the FINANCIAL BID online only and physical form will not be acceptable, in which case bid shall be rejected.

- 1) Product & Services offered should be strictly as per specifications mentioned in this Tender Document.

- 2) Bidder shall quote the prices of Product & Services as mentioned valid for 180 days from the submission of the financial bid.
- 3) Once quoted, the Bidder shall not make price changes, whether resulting or arising out of any technical/ financial clarifications sought regarding the bid, any deviation or exclusion may be specifically stated in the bid.
- 4) After the award of contract as per procedure envisaged in the tender, no consideration will be entertained for any addition of cost for any deviation.

Bid submission:

EMD shall be submitted through hardcopy on or before its submission date whereas rest the document shall be submitted on GEM Portal only. Any financial submitted through Hardcopy will be entitled to rejection of bid.

Yours faithfully,

Director of Agriculture

4 Instructions to Bidders

- 1) The project period shall be 5 years, from the date of award of the contract/ work order as per the approval of state government. The contract (partial/full) may be extended on mutual agreement between state government and bidder for one/two years.
- 2) Consortium for this project is allowed but the total consortium members should not be more than two including the lead bidder. The company participating as bidder or consortium member (either individually or as a consortium member) should not participate as a bidder or consortium member in more than one bid. Such participation would result in a disqualification of all bids in which the organization is involved. Members of consortium shall nominate one member as lead member. The nomination(s) shall be supported by power of attorney, as per the format at Annexure-15, signed by all member of consortium. The members of consortium can not be changed during the contract period without prior approval of authority.
- 3) Members of consortium shall enter into a bidding Joint Bidding Agreement, substantially in the form specified at Annexure-14 (the "Jt. Bidding Agreement") for the purpose of making the application and submitting a bid in the event of being short-listed.
- 4) The bidder shall bear all costs associated with the preparation and submission of his bid and the authority will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- 5) All the data created as the part of the project shall be owned by the authority. The selected bidder shall take utmost care in maintaining security, confidentiality and backup of this data. Access to the data/systems shall be given by the selected bidder only to the personnel working on the projects and their names & contact details shall be shared with the authority in advance. The authority /its authorized representative(s) shall conduct periodic/surprise security reviews and audits, to ensure the compliance of data/system security by the selected bidder. The authority will have access to data / apps stored on the cloud.
- 6) The bidder is expected to propose detailed solution, team engagement, and implementation schedule along with estimated BOQ and detailed plan.
- 7) The determination of award of contract will take into account the bidder's financial, technical capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted, as well as such other information as the authority deems necessary and appropriate including details of experience and records of past performance. The determination of award of contract will be strictly based on the highest score obtained by technically qualified bidders.

- 8) Bids are invited in accordance with local competitive bidding procedures based on Government of Gujarat and Government of India guidelines as and when applicable.
- 9) No deviations from bidding documents will be accepted.
- 10) Bids not accompanied by bid security (Earnest Money Deposit) shall be summarily rejected.
- 11) Non-compliance with technical requirement bid shall be disqualified.
- 12) Bidders should furnish their complete address for the purpose of further correspondence pertaining to bidding document.
- 13) Corrections in the bid should be noted over and initialled at the place of corrections.
- 14) Specifications, conditions, schedules of bidding document constitute an integral part of the bid.
- 15) All the bids, along with enclosures should be in English only. If the documents are in the regional language, then the bidder should provide self-certificate along with English translated document.
- 16) Bids should be kept valid for acceptance for a period of 180 days from the day financial bid is submitted.
- 17) The bidding document shall be governed and interpreted according to the rules and laws of Government of Gujarat and Government of India.
- 18) No extension in due date of submission of bids will be allowed on any ground.
- 19) All the bidders should quote for the scope of work as per the specifications and details given in this bidding document only.
- 20) The authority may for any reasons add/modify/amend/relax/cancel any terms/conditions/criteria of the tender document during any stage of the bidding process and such amendments shall be binding to all the bidders.
- 21) The authority at its own discretion reserves the right to reject any proposal, modify or scrap the whole or partially tender at any time, without assigning any reason or incurring any liability.
- 22) To assist in the evaluation, comparison and an examination of tender, the authority may at its sole discretion, ask the bidder for a clarification of its tender. The request for clarification and the response shall be in writing. If the response to the clarification is not received before the expiration of deadline prescribed in the request, the authority reserves the right to make its own reasonable assumptions and take appropriate decision.
- 23) Each consortium member will be jointly and severally liable for the proposal. The capabilities of the manufacturers proposed (OEM or solution provider of OEM) by the Bidders for identified major items of supply or services will also be evaluated for acceptability in

accordance with Section 18, Evaluation and Qualification Criteria. Multiple OEM's shall not be proposed for section no.16.1 and 17.

- 24) The authority reserves the right to modify/change the dates of tender opening/ submission at its own discretion and these changes shall be binding on the bidder.

5 Intellectual Property Rights

For the customized solution developed for the project, IPR of the base and customized solution with editable rights including all the licence would belong exclusively to the authority. The selected bidder shall also submit all the necessary instructions for incorporating any modification/changes in the software and its compilation into executable/installable product.

Deliverables provided to the authority by selected bidder during the course of its performance under this project, in which subject to the foregoing provisions of this Article, all right, title and interest in and to such deliverables, shall, as between selected bidder and the authority, immediately upon creation, vest with the authority.

To the extent that the selected bidder's Proprietary Information is incorporated within the deliverables, selected bidder and its employees engaged hereby grant to the authority a perpetual, irrevocable, non-exclusive, transferable, paid-up right and license to use, copy, modify (or have modified), transport to the authority facilities, and prepare from them, use and copy derivative works for the benefit of and internal use of the authority, of such selected bidder's Proprietary Information, the authority's rights pursuant to the preceding sentence include the right to disclose such bidder's Proprietary Information to third party bidders solely for use on the project provided that all such third party bidders execute, deliver and comply with any customary confidentiality and non-disclosure agreements reasonably required by the authority.

Definitions & Acronyms

5.1 Definitions

Terms not defined herein, shall have the meaning ascribed to them under the Service Agreement. In addition to terms defined elsewhere herein, the following terms shall have the meaning ascribed to them below:

- 1) "Authorized Person" / "Authorized Signatory" shall means a duly authorized person of the company holding the Power of Attorney certified under the hands of a partner or director of the bidder and notarized by a notary public.
- 2) "Tender" shall mean the technical tender and technical financial proposal submitted by the bidder, in response to this tender, in accordance with the terms and conditions hereof and shall also include the copies of the same.
- 3) "Tender due date" shall have the meaning is to last date of submission of tender.

- 4) “Bidder” shall mean the applicant submitting a bid as a response to the tender. Any reference to the bidder includes Sole bidder / Lead Bidder.
- 5) “Tender Documents” shall have the meaning of all accompanying documents and all communications in relation to or concerning this bidding process.
- 6) “Selected Bidder” shall mean the selected bidder itself or, where applicable, a consortium formed by the bidder for the purposes of the implementation and operation and management of the project;
- 7) “Project” shall mean “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies”.
- 8) “State” shall mean the State of Gujarat.
- 9) “Stakeholders” means the selected bidders, Government departments and other agencies of the Government of Gujarat and their employees.

In addition to terms defined elsewhere herein, the following terms shall have the meaning ascribed to them below:

Abbreviation	Description
CAPEX	Capital Expenditures
CCE	Crop Cutting Experiment
DAG	Directorate of Agriculture
Department	Department of Agriculture
GIS	Geographical Information System
GoG	Government of Gujarat
GPS	Global Positioning System
GUI	Graphical User Interface
INR	Indian National Rupees
ISO	International Organization for Standardization
NDVI	Normalized Difference Vegetation Index
OGC	Open Geospatial Consortium
OPEX	Operating Expenses
QCBS	Quality and Cost Based Selection
SRS	Software Requirement Specifications

6 Overview

“Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies” envisaged being a monitoring system for government officials, farmers and other stakeholders as the driving force.

The project envisaged to provide multitude of benefits to farmers, powerful tools in the system would aid in crop-specific advisory calibrated according to the local weather, soil and crop specific information, assisting the farmer on each crucial step of nurturing his/her produce.

As part of the scope of work, the operations related this project such as crop insights based on high resolution satellite data, farmer centric advisories, resource mapping, crop stress identification, analysis on weather pattern would bring efficiency within the agriculture department.

The project includes strengthening of linkages between agriculture department and the farmers. Gujarat has approximately 50 lakh farmers, and approximately 7000 agriculture officials. Functionalities such as crop acreage estimation, crop stress identification, yield modelling and estimation, database management will help department in decision making whereas advisories related to sowing time, moisture stress, irrigation, pest disease infestation, weather pattern and rainfall will help farmers to get best possible products.

6.1 Introduction

This request for proposal (“tender”) is being issued by Directorate of Agriculture (DAG) (“The Authority”) on behalf of Government of Gujarat for enhancement of Agriculture Monitoring System and & Crop Production System by using advanced technologies in order to facilitate all the activities of department of agriculture as well as farming community of the State of Gujarat.

6.2 Gujarat State

Gujarat has varying topographic features though a major part of the state was dominated by parched and dry region. The average rainfall in the state varies widely from 250 mm to 1500 mm across various zones. Total geographical area of the state is about 196 lakhs hectares. Out of total geographical area, 105 lakh hectares are under net cultivable area which is 53% of total geographical area. Total gross cropped area is about 147 lakh hectares in the state. The State comprises of 33 districts, administratively sub-divided into around 250 talukas, consisting of approximately 18618 villages.

6.3 Agriculture Scenario

Output of agricultural sector in Gujarat State has been largely dependent on south-west monsoon. The State frequently experiences erratic behaviour of the south-west monsoon, which can partly be attributed to geographic situation of the State. The wide variation in rainfall received by different parts of the state has been the characteristic feature of monsoon. Average rainfall of the state is 877 mm (average of period of 1993 to 2022).

Gujarat has harness the potential of available resources in sustainable manner with integration of different initiatives to support agriculture growth in the state. To overcome the natural constrains and make states' cropping system acquaint with agro climatic conditions, state has taken major initiatives and programmes in last two decades which includes intensive extension activities under Krushi mahotsav, irrigation, water management, implementation of drip and sprinkler irrigation, providing of Kisan Credit Cards and Soil Health Cards for farmers, electricity, horticulture development, animal health, dairy development, marketing infrastructure, road network, assured electricity supply and dedicated feeder for agriculture etc.

6.4 Objectives of Govt. of Gujarat

The broad objective is to create a farmer centric project "Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies" which can act as a single point solution for all the stakeholders involved primarily; Government and farmers. With addition the proposed application will also act as an interface between farmers, Agriculture department, concerned Govt. Authorities, scientists, extension officers and service providers in order to bring innovation/ sustainable interventions in agriculture and allied sectors which is highly necessitated to excel and accelerate Government services qualitatively and quantitatively and to create fiscal discipline.

The project is envisaged to cater to the following three broad objectives

- Provide advisory support to the farmers in order to mitigate climate impacts and obtain sustainable growth and income.
- Support agriculture department by providing real time reliable data using the advanced technology of remote sensing & appropriate & necessary algorithms which could be used in the decision making.
- Generate geospatial information and algorithms for agriculture of the state to strengthen extension services, research and education under state agricultural universities.

State has vision to assess cluster wise crop health through satellite imageries and its analysis with artificial intelligence to diffuse real time advisory in the field. It will be useful in adoption of local specific approach which ultimately helpful to draw area specific extension module and even extended it to need based incentivizing agriculture. State will took up this technological zeal at excellence level to set an example for reimagining agriculture.

7 General Information

This is tender inviting offers for setting up of “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies”.

7.1 Tender

Directorate of Agriculture invites tender for selection of a bidder for the project “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies”. The authority intends to select the Bidder through an open tender in accordance with the procedure set out herein.

7.2 Earnest Money Deposit

A tender EMD Fee of INR 6.0 Crores/- (INR Six Crore Only) in the form of demand draft or bank guarantee issued by scheduled Commercial bank in favour of Director of Agriculture Payable at Gandhinagar shall be submitted with the tender.

7.3 Validity of the Tender

Tender shall remain valid for 180 days from the financial submission date. A tender valid for a shorter period may be rejected as non-responsive.

In exceptional circumstances, the authority may request the bidder for an extension of the period of validity. The request and the responses there shall be made in writing (or by fax). The validity of the tender security shall also be suitably extended.

7.4 Correspondence & Communications:

All correspondence with DAG, Gandhinagar would be directly by the bidder or his authorized representative only. Correspondence through agents or unauthorized representative will not be allowed.

All completed bid documents and enquiries regarding clarification in connection with this tender as specified in the E Tendering procedure shall be addressed to:

The Official Email of the DAG:

All communications including EMD should be addressed to:

Director of Agriculture

Krishi Bhavan, Sector 10 A, Ch Road, Gandhinagar 382 010

Tele. No. - 079-23256116

E-mail: dir-agr@gujarat.gov.in; dgmtech-gil@gujarat.gov.in; mgrhn-itcon@gujarat.gov.in

Website: dag.gujarat.gov.in

7.5 Language

The bidder shall quote the rates in English language and international numerals. The rate shall be in whole numbers. These rates shall be entered in figures as well as in words. In the event of the order being awarded, the language of all services, manuals, instruction, technical documentation etc. provide for under this contract will be English.

7.6 Contents of Tender

The tender will be in two parts:

Part –I Pre-Qualification:

It should contain EMD of Rs 6.0 Crores in the form of Bank Guarantee in favour of Director of Agriculture Payable at Gandhinagar.

Part –II Technical Qualification:

Power of attorney/authorization with a seal of the company of person signing the bid documents

- 1) Audited Balance Sheet for the last three financial years ending _____
- 2) Certified copies of the work order/purchase order(s) from the authorized signatory
- 3) Certificate from the project client for award of contract and stage of satisfactory project completion (in terms of value) in original or its self-certified copy for each project claimed.
- 4) In case bidder is a company- Certified copy of Certificate of incorporation or in case the Bidder is a society- Certified copy of registration deed or in case of Trust- Certified copy of the Trust Deed or in case of Firm- Certified copy of the Registration Deed.
- 5) Certified copies of documents submitted, as above, must be signed and carry the seal of the authorized signatory.
- 6) Documentary evidence required to establish eligibility.

- 7) Name of officials and list of team members (experts) with their profiles & role to be played in the project duly signed by authority.
- 8) Year wise list of projects executed/being executed giving technical details & cost of each project with certificate from each project client to this effect, during the last five preceding years.
- 9) Certificate from the project client for award of contract and stage of satisfactory project completion (in terms of value) in original or its self-certified copy for each project claimed, during the last five preceding years.
- 10) A detailed work plan confirming capability of the company to execute the work within the time limit after award of contract.

Part III

Bidder shall submit the Financial Bid online only as per BoQ and physical form will not be acceptable.

7.7 Pre-Bid Meeting

The authority will host a meeting for queries (if any) by the prospective bidders. The date, time and place of the meeting will be shared to the stakeholders as per the schedule mentioned in the tender documents. The representatives of the bidders may attend the pre-bid meeting. The purpose of the pre-bid meeting is to provide a forum for the bidders to clarify their doubts / seek clarification or additional information, necessary for them to submit their bid.

All enquiries from the bidders relating to this tender must be submitted to the Department before the pre-bid meeting. These queries should also be emailed to dgmtech-gil@gujarat.gov.in; mgrhn-itcon@gujarat.gov.in; dir-agr@gujarat.gov.in

The queries should necessarily be submitted in the following format (Excel format):

Sr. No.	Tender Document Reference	Content of the tender requiring Clarification	Clarification Sought
1			
2			

Queries submitted post the above-mentioned deadline or which do not adhere to the above-mentioned format may not be responded to.

7.8 Amendment of Tender Document

At any time before the deadline for submission of bids, the authority, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the tender document by an amendment.

The bidders are advised to visit the GeM portal, GIL Website & dag.gujarat.gov.in on regular basis for checking necessary updates. The authority also reserves the rights to amend the dates mentioned in this tender for bid process.

In order to afford prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the authority may, at its discretion, extend the last date for the receipt of Bids.

7.9 Rejection and Return of Tender

- 1) The authority reserves the right to reject any or part of tender or all without assigning any reason. The documentation submitted by bidders shall not be returned in case the technical offer is not acceptable unless the bidder expressly states his request at the time of submission of their tender that tender documentation be returned. The cost for returning the document shall be borne by the bidder. The authority also reserves the right at its sole discretion not to award any order under the tender call. This decision does not commit the authority to pay any costs or loss incurred in the preparation and submission of any requisite tender or technical proposal or to procure or contract for any of the items described herein.
- 2) If the bidder deliberately gives wrong information in his tender, the authority reserves the right to reject such tender at any stage or to cancel the contract, if awarded, and to forfeit the earnest money and invoke performance guarantee.
- 3) Canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by the bidders who resort to canvassing are liable for rejection.
- 4) Tender in which any of the particulars and prescribed information are missing or are incomplete, in any respect and /or prescribed conditions are not fulfilled, shall be considered non-responsive and is liable to be rejected.
- 5) Any condition put forth by the bidder non-conforming the tender requirements shall not be entertained at all and such Tenders shall be rejected. The Technical tender shall be submitted in the form of printed document and bid must be uploaded online through GeM portal. Tender

submitted by Telex, fax or email will not be entertained. Any tender not authenticated or not secured will be rejected straightaway by the authority without any further correspondence, as non-responsive. A tender that does not meet any qualification criteria or is not responsive or not fulfilling technical evaluation will be disqualified and rejected by the authority, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation by the bidder.

8 Procedures for Opening of Tender Documents

- 1) Part-I containing prequalification bid will be followed by the technical bid offer. The technical bid of Bidders who has submitted EMD as per Pre-Qualification criteria only will be opened on the date as specified date as mention in invitation of bid the E Tendering procedure and verified for all technical parts.
- 2) Tenders shall be scrutinized on the basis of the information available. It shall, therefore, be in the bidders interest to give complete and comprehensive technical particulars/description and details as per specifications in this tender document.
- 3) After all the tenders have been technically examined and verified, Part-III containing price bid shall be opened on GEM Portal for which the date and time bidder may check on GEM Portal.
- 4) No correspondence shall be entertained from the bidders after the opening of part-III; Price bid of the tender.

9 Security Deposit

An amount equal to 10 % of the total contract value is to be furnished as security deposit by way of bank guarantee.

9.1 DAG's Rights to Terminate the Process

The authority may terminate the tender process at any time and without assigning any reason. The authority makes no commitments, express or implied, that this process will result in a business transaction with anyone. This tender does not constitute an offer by the authority. The bidder's participation in this process may result in the authority selecting the bidder to engage in further discussions and negotiations toward execution of a contract. The commencement of such negotiations does not, however, signify a commitment by the authority to execute a contract or to continue negotiations. The authority may terminate negotiations at any time without assigning any reason.

9.2 Delay and Non-Performance

In case of implementation schedule not being adhered to, the authority has the right to cancel the order wholly or in part without any liability to pay cancellation charges and procure the goods & services elsewhere in which case the successful bidder shall make good the difference between the cost of goods & services procured elsewhere and price set forth in the order with the successful bidder.

9.3 Risk Purchase Clause

In the event selected bidder fails to execute the project as stipulated and the directions given by the authority from time to time, the authority reserves the right to procure similar services from the next eligible bidder or from alternate sources with similar tender terms and the same cost of H1 bidder/selected bidder/successful bidder. Before taking such a decision, the authority shall serve a notice period of one month to the selected bidder. Additionally, the authority will forfeit the Performance Bank Guarantee and the selected bidder may be blacklisted by the authority.

9.4 Applicable Law

The contract shall be governed by the laws and procedures prescribed by the Laws prevailing and in force in India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/processing. All legal disputes are subject to the jurisdiction of courts of Gandhinagar, Gujarat only.

9.5 Limitation of Liability towards the authority

The selected bidder's liability for the scope of work shall be determined as per the Law in force for the time being. The selected bidder shall be liable to The authority for loss or damage occurred or caused or likely to occur on account of any act of omission on the part of the selected bidder and its employees, including loss caused to The authority on account of defect in goods & services or deficiency in services on the part of selected bidder or his agents or any person/ persons claiming through or under selected bidder.

However, such liability of selected bidder shall not exceed the total value of this project.

9.6 Fraud and Corruption

The authority requires that selected bidder must observe the highest standards of ethics during the execution of the contract. In pursuance of this policy, the authority defines, for the purpose of this provision, the terms set forth as follows:

- 1) "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of the authority in contract executions.
- 2) "Fraudulent practice" means a misrepresentation of facts, in order to influence a procurement process or the execution of a contract, to the authority, and includes collusive practice among bidders (prior to or after proposal submission) designed to establish Proposal prices at artificially high or non-competitive levels and to deprive the authority of the benefits of free and open competition.
- 3) "Unfair trade practices" means supply of services different from what is ordered on, or change in the Scope of Work, which is given by the authority.
- 4) "Coercive Practices" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the execution of contract.

If it is noticed that the selected bidder has indulged into the Corrupt/Fraudulent/Unfair/ Coercive practices, it will be a sufficient ground for the authority for termination of the contract and initiate black-listing of the selected bidder.

9.7 Force Majeure

The selected bidder shall not be liable for forfeiture of its performance guarantee, imposition of liquidated damages or termination for default, if and to the extent that it's delay in performance or other failure to perform its obligations under the contract is the result of an event of Force

Majeure. For purposes of this clause, "Force Majeure" means an event beyond the "reasonable" control of the selected Bidder, not involving the selected Bidder's fault or negligence and not foreseeable. Such events may include Acts of God & Acts of Government of India in their sovereign capacity.

For the selected bidder to take benefit of this clause it is a condition precedent that the selected bidder must promptly notify the authority, in writing of such conditions and the cause thereof within 10 calendar days of the Force Majeure event arising.

The authority, or the consultant/committee appointed by the authority shall study the submission of the selected bidder and inform whether the situation can be qualified one of Force Majeure. Unless otherwise directed by the authority in writing, the selected bidder shall continue to perform its obligations as far as it is reasonably practical.

In the event of delay in performance attributable to the presence of a force majeure event, the time for performance shall be extended by a period(s) equivalent to the duration of such delay. If the duration of delay continues beyond a period of 30 days, the authority and the selected bidder shall hold consultations with each other in an endeavour to find a solution to the problem.

Notwithstanding anything to the contrary mentioned above, the decision of the authority shall be final and binding on the selected bidder.

That the selected bidder produces evidence of the date of occurrence and the duration of the force majeure in an adequate manner by means of documents drawn up by responsible authorities.

The selected bidder proves that the said conditions have actually been interfered with the carrying out of the contract.

The selected bidder proves that the delay occurred is not due to his own action or lack of action.

Apart from the extension of the time limit, force majeure does not entitle the selected bidder to any relaxation nor to any compensation of damage or loss suffered.

9.8 Conflict of Interest

The selected bidder shall disclose to the authority in writing, all actual and potential conflicts of interest that exist, arise or may arise (either for the selected bidder or its Team) during performing the services as soon as it becomes aware of such a conflict. Selected bidder shall hold the

authority's interest paramount, without any consideration for future work, and strictly avoid conflict of interest with other assignments.

- 1) A Bidder shall not have a conflict of interest ("Conflict of Interest") that affects the Bidding Process. Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the Authority shall forfeit and appropriate the Bid Security as the case may be. Without limiting the generality of the above, a Bidder shall be considered to have a Conflict of Interest that affects the Bidding Process, if;
- 2) Such Bidder (or any constituent thereof) and any other Bidder (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this qualification shall not arise in cases where the direct or indirect shareholding in a Bidder or a constituent thereof in the other Bidder(s) (or any of its constituents) is less than 1% of its paid up and subscribed capital; or
- 3) Such Bidder receives or has received any direct or indirect subsidy from any other Bidder, or has provided any such subsidy to any other Bidder; or
- 4) Such Bidder has the same legal representative for purposes of this Bid as any other Bidder; or
- 5) Such Bidder has a relationship with another Bidder, directly, that puts them in a position to have access to each other's information about, or to influence the Bid of either or each of the other Bidder.
- 6) A Bidder shall be liable for disqualification and forfeiture of Bid Security if any legal, financial or technical adviser of the Authority in relation to the Project is engaged by the Bidder in any manner.

9.9 Settlement of Disputes and Arbitration

Except where otherwise provided for in the contract, all questions and disputes relating to the meeting of the specifications as per the scope of work and instructions hereinbefore mentioned and to the quality of work as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter :

If the selected bidder considers any work demanded of him to be outside the requirements of the contract, or disputes, record or decision given in writing by the Director of Agriculture, on any matter in connection with or arising out of the contract or carrying out of the work, to be

unacceptable, he shall promptly within 15 days request Director of Agriculture in writing for written instruction or decision. Thereupon, the Director of Agriculture shall give his written instructions or decision within a period of one month from the date of receipt of the selected bidder's letter.

If the Director of Agriculture fails to give his instructions or decision in writing within the aforesaid period or if the selected bidder is dissatisfied with the instructions or decision of the Director of Agriculture, the selected bidder may, within 15 days of the receipt of Director of Agriculture's decision, appeal to the Secretary of Agriculture who shall afford an opportunity to the selected bidder to be heard, if the latter so desires, and within 30 days of receipt of selected bidder's appeal.

Except where the decision has become final, binding and conclusive in terms of sub para(i) above disputes of difference shall be referred to the sole arbitrator namely Secretary of Agriculture. The provisions of Indian Arbitration Act, 1940 and the rules made there under or statutory modifications thereto for the time being enforced.

9.10 Termination of Contract

The authority may, without prejudice to any other remedy under this contract and applicable law, reserves the right to terminate for breach of contract by providing a written notice of 60 days stating the reason for default to the selected bidder and as it deems fit, terminate the contract either in whole or in part:

- If the selected bidder fails to deliver any or all of the project requirements/ operationalisation/ go live of project within the time frame specified in the contract; or
- If the selected bidder fails to perform any other obligation(s) under the contract.

Prior to providing a notice of termination to the selected bidder, the authority shall provide the selected bidder with a written notice of 30 days instructing the selected bidder to cure any breach/ default of the Contract, if the authority is of the view that the breach may be rectified.

On failure of the selected bidder to rectify such breach within 30 days, the authority may terminate the contract by providing a written notice of 30 days to the selected bidder, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the authority. In such event the selected bidder shall be liable for penalty/liquidated damages imposed by the authority.

In the event of termination of this contract for any reason whatsoever, the authority is entitled to impose any such obligations and conditions and issue any clarifications as may be necessary to

ensure an efficient transition and effective continuity of the services which the selected bidder shall be obliged to comply with and take all available steps to minimize the loss resulting from that termination/ breach, and further allow and provide all such assistance to the authority and/ or succeeding vendor, as may be required, to take over the obligations of the selected bidder in relation to the execution/ continued execution of the requirements of this contract.

In the event of Termination of the project for any reason, an **Exit Management** the selected bidder has to submit all the elements and IPRs related to the project but not limited to documents, materials, software solutions with all the raw and compiled data, licences, *etc.* with all the editable rights without any cost to the department/government.

10 Earnest Money Deposit/Bank Guarantee

The Earnest Money Deposit (EMD) as prescribed in terms & conditions as specified shall accompany tender. The EMD shall be furnished in the form of a crossed Demand Draft/Bank Guarantee valid for 180 days from the date of financial proposal from any nationalized or scheduled bank in India. Please find the below details for Bank Guarantee.

Bid Security / EMD in favour of: Director of Agriculture payable at Gandhinagar

Address: Directorate of Agriculture, Krishi Bhavan, Sector 10A, Ch Road, Gandhinagar 382010, Gujarat

Name of the Bank:

IFSC code:

The EMD of all the bidders will be returned within fifteen days after submission of the performance guarantee of successful bidder. The EMD of the selected bidder shall be returned after the selected bidder provides the security deposit. If the selected bidder fails to submit the performance guarantee and fails to enter into a contract with the authority within 15 working calendar days after the acceptance of bid and award of contract, the EMD amount shall be forfeited. No interest or any other expenses, whatsoever, will be payable by the authority on the EMD by the bidder in any manner.

11 Terms of Payment

The terms of payment shall be as per the details given below. The payment shall be released after verification & certification by the authority's representative.

a) Payment Terms based on Reports Submission

The terms of payment shall be as per the details given below. Minimum 65 % data accuracy is compulsory for each report and 70% overall accuracy required. The payment shall be released after verification & certification by the authority's representative. The invoice of each report should be generated by the selected bidder only after the approval from the authority or authority's representative. All such verifications shall be completed within 30 days of completion of the respective milestone / provisioning of services. The payment will be made as per the milestones mentioned below subject to the clearance report on quality check obtained from The authority's representative. The payment will be done preferably within 30 days of the technical approval of committee.

b) Report & Advisory Submission Timeline

Report submission timeline:

1. Crop acreage estimation – Twice in a season
2. Crop yield modelling and production– Twice in a season
3. Monitoring of droughts – On event occurrence
4. Flood mapping & monitoring – On event occurrence
5. Crop Loss Assessment - On event occurrence
6. Identification of pest and disease infestation – On event occurrence

Additional Reports on demand and advisory based

1. Identification of planting & harvesting dates – Once in a season
2. Crop condition assessment & stress identification – Once in a season
3. Soil moisture estimation & irrigation monitoring – Once in a season

Advisories Timeline

1. Generalize Advisory – Every week
2. Sowing and harvesting time – Every fortnight
3. Crop stress - Every fortnight / on event occurrence

4. Pest and disease infestation - Every fortnight / on event occurrence
5. Soil moisture stress and irrigation Application – Every fortnight / on event occurrence
6. On weather pattern - Every fortnight

The authority would provide the exact dates of the report submission season wise before the finalization of the contract. The reports should be submitted in hard copy and the soft copy. They should be uploaded on the web application after the authority's approval. The advisories should be provided by a push notification in the mobile application and they should be accessed through web application as well.

c) Proposed Time line for the Application & Command & Control Centre Setup

The agency needs to adhere following timeline (T is the date of signing of the Agreement)

- ~~SRS for the Mobile Application – T + 2 month – 10% of CAPEX~~
- ~~Mobile Application Development & Deployment – T + 3 months – 20% of CAPEX~~
- ~~Command and Control Centre Setup – T + 2 months – 65% of CAPEX (BOQ line item No. 3, Sr.No.1-2)~~
- ~~SRS for the Web application – T + cv3 months – 25% of CAPEX~~
- ~~Platform Customization & UAT – T + 4 months – 30% of CAPEX~~
- ~~Go-Live of the application – T + 5 months – 15% of CAPEX~~
- ~~Operations & Maintenance – T + 5 onward – Quarterly from OPEX~~

Timeline for Web Application Infrastructure				
Sr. No.	Activity/Milestone	Completion Timelines	Deliverable	Payment
1	Issuance of Work order on GEM	T (Date of Contract issuance of contract on GEM)	Acceptance of contract within week on letterhead to office	
2	Submission of SRS for mobile application, URS and SDD as per the scope of work defined in this RFP for Application	T1=T + 8 Weeks	1. Software Requirement 2. Specification report 3. User Requirement 4. Specification report 5. Software design document 6. Security Audit and Cert-IN Certificate	10% of CAPEX

3	Design, Development for Application	T2=T + 12 Weeks	1. Development plan 2. Test Scenarios, Cases and scripts 3. Test Reports	20% of CAPEX
4	SRS for WEB Application and Security Audit Completion	T3=T + 14 Weeks	1. Software Requirement 2. Specification report 3. User Requirement 4. Specification report 5. Software design document 6. Security Audit and Cert-IN Certificate	25% of CAPEX
5	Platform Customisation and UAT	T4=T + 16 Weeks	1. Demonstration 2. UAT Sign-off Certificate	30% of CAPEX
6	Full Go-Live (Design, Develop, Test, Implement and Training to DAG staff for Application)	T4=T + 20 Weeks	Certificate of successful Commissioning	15% of CAPEX
7	Annual Application support and Maintenance for 5 years (Application)	5 Years from the date of Go-live	Operation and Maintenance support for the application developed	Quarterly from OPEX

Timeline for AOCC Infrastructure				
Sr. No.	Activity/Milestone	Completion Timelines	Deliverable	Payment
1	Issuance of Work order on GEM	T (Date of Contract issuance of contract on GEM)	Acceptance of contract within week on letterhead to office	
2	Installation, commissioning and Successful implementation of IT Hardware Infrastructure	T1=T + 8 Weeks	1. Hardware Requirement 2. Specification Report 3. Software installation 4. AOCC Setup demo	65% of CAPEX
3	Installation, commissioning and Successful implementation of Non-IT components and System	T2=T + 8 Weeks	1. Non IT Requirement 2. Specification and demonstration	20% of CAPEX

4	Full Go-Live (Design, Develop, Test, Implement and Training to DAG staff for Application)	T2=T + 20 Weeks	Certificate of successful Commissioning	15% of CAPEX
6	Annual Application support and Maintenance for 5 years (Application)	5 Years from the date of Go-live	Operation and Maintenance support for the application developed	Quarterly from OPEX

d) Service Level Agreement (SLA):

1. Service Level – Implementation period SLA

Sr. No.	Service level description	Penalty
1	Delay in milestone delivery	Rs. 1,00,000 per week
2	Delay in report submission	Rs. 1,00,000 per week per report
3	Delay in advisories	Rs. 50,000 per week per advisory
4	Delay in manpower deployment at AOCC and break in service continuity	Rs. 50,000 per week

2. Service level agreement for O&M phase

Sr. No.	Service level description	Min SLA expected	Penalty
1	System availability	99% of the time	99 - x% of Operations & Maintenance value per quarter i.e. if system is available 95% of time in particular quarter then penalty would be 4%

Note:

1. Scope of work is as mentioned in the RFP
2. Review period taken by the authority for various draft versions submitted and sign-off period shall be excluded in calculation of timeline for SLA and penalty purpose
3. The selected bidder needs to have enough skilled manpower in position and capable of supporting the deliverables mentioned in RFP
4. If the cumulative penalty under SLA exceeds **10%** ~~3%~~ of contract value then the selected bidder's security deposit will be forfeited, the selected bidder may be blacklisted by the authority and Risk Purchase Clause will be applicable

5. There will be no change in the rates finalized upon award of tender to successful bidder during the period of implementation and maintenance & support
6. The manpower shall be entitled for twelve days of leaves per year. (The leave policy may be applicable by selected agency/bidder company however the manpower availability must be ensured for Project tenure without any exception.) In case of attrition, the bidder has to propose replacement of absconding/resigned manpower within one week.

12 Bill of Quantity (BoQ)

Sr. No.	Line Item	Total Rates	CAPEX Cost	OPEX Year - 1	OPEX Year - 2	OPEX Year - 3	OPEX Year - 4	OPEX Year - 5
1	Reports Submission	Grand Total A=.....						
2	Web & Mobile Application Customization and Configuration 1. Development and customization of Web Platform 2. Development of Mobile Applications for IOS and Android (Single Codebase)	Grand Total B=.....						
3	Agriculture Operations &	Grand Total C=.....						

	Command Centre (AOCC) setup							
	Grand Total (A + B + C)							

***Refer Annexure 16 for financial format tentative breakup details**

Note:

- Above values are inclusive of tax as per terms and conditions of GeM
- For costing of command and control centre, please refer specifications mentioned in “16.2 Command & Control Unit” under Scope of Work
- “Per ha” stands for Per Hectare (1 ha = 2.5 acre)
- The bidder needs to provide total cost of respective reports / advisories while quoting on GeM. The authority will divide the total cost with respective season’s area / advisories to get per ha/ per advisory rate for further payments. i.e. For the report “Crop acreage estimation – Preliminary report “ if the bidder is quoting 6.96 Crore then for that report the “per ha” rate will be Rs. 8 (6.96 Cr / 87 lac ha). If the bidder is quoting Rs. 30,000 for “Advisories for Kharif season” then per advisory cost for Kharif season will be Rs. 2,000 (Rs. 30,000 / 15 advisories). For the report “Reports to be submitted on event occurrence”, if the bidder is quoting 1 Crore then for that report, “per ha” rate will be Rs. 10 (1 Crore / 10 Lac).
- Overall project duration is 5 years from the contract signing date. Implementation period is 5 months from the contract signing date, the remaining 7 months’ time period will be considered as a warranty period of deployed mobile and web applications. Operations & Maintenance (O&M) period is for 4 years post warranty period. Reports are expected to be generated over a course of 5 years from the contract signing date
- Reports mentioned under “Additional Reports” are also covered under Advisories and the selected agency also should submit a report of these advisories once in a season. These reports will not be considered for the payment
- Bidder shall submit the Financial Bid online only as per BoQ format uploaded on GEM Portal. The physical form will not be acceptable.
- Bidder may change the line items of IT & Non IT Infrastructure in BoQ as per the solutions.
- Bidder shall submit financial breakup against each line item including each infrastructure, respective AMC/Warranty, Manpower count and cost, Licence Cost which includes total scope of the project. Any changes after bid submission may not be accepted.

- The bidder must submit price bid, CAPEX-OPEX for AOCC (Agriculture Operations & Command Centre) cost should have 65-35 proportionate

13 Patents, Selected Bidder's Liability & Compliance of Regulations

- 1) Selected bidder shall protect and fully indemnify the authority from any claims for infringement of patents, copy right, trade mark or the like.
- 2) Selected bidder shall also protect and fully indemnify the authority from any claims from selected bidders workmen/employees, their heirs, dependants, representatives *etc.* or from any other persons(s) or bodies/companies *etc.* for any act of commission or omission while executing the order.
- 3) Selected bidder shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the authority from any claims/penalties arising out of any infringements and indemnify completely the authority from any claims/penalties arising out of any infringements.

14 Penalty

Please note that time is essence of the contract. In case of delay the penalty will be imposed if the service provider fails to supply of acceptable reports within the agreed timeline to the nominated bidder(s) with intimation to the authority. Any deviation in the report submission or delayed milestone deliveries will attract penalties as mentioned in the SLA.

Such penalty will be calculated on monthly basis (computed through software) and will be recovered from the running bills or from the security amount.

Minimum 65 % data accuracy is compulsory required for each report. Failure in achievement of 65 % accuracy leads to cancellation of payment of particular report. The authority will nominate the bidder & committee to validate the data quality of the reports. Quality check cleared data has to be uploaded by vendor within two (2) days of the intimation.

15 General terms of Bidding

- 1) The Technical Bid should be furnished in the format clearly indicating the components as per this RFP document and signed by the Bidder's authorized signatory.
- 2) The Financial Bid should be furnished in the format clearly indicating the Bid amount in both figures and words, in Indian Rupees, and signed by the Bidder's authorized signatory. In the event of any difference between figures and words, the amount indicated in words shall be taken in to account.
- 3) Any condition or qualification or any other stipulation contained in the Bid shall render the Bid liable to rejection as a non-responsive Bid.
- 4) The Bid and all communications in relation to or concerning the Bidding Documents and the Bid shall be in English language only. If the documents are in the regional language then the bidder should provide self-certificate along with English translated document.
- 5) The Bidding Documents including the RFP and all attached documents are and shall remain the property of the Authority and are transmitted to the Bidders solely for the purpose of preparation and the submission of a Bid in accordance herewith. Bidders are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Bid.
- 6) The RFP is not transferable.
- 7) The selected Bidder will be responsible for the procurement & processing of satellite, field survey and report preparation.
- 8) The selected Bidder will be abide to time to time GR of government.
- 9) The authority shall receive Bids pursuant to this RFP in accordance with the terms set forth in this RFP and modified, altered, amended and clarified from time to time if required by the GoG. Bids shall be prepared and submitted in accordance with such terms.
- 10) The authority will have the right to amend the scope of work as per the requirement during the project implementation period which shall be mutually discussed and agreed upon by the selected bidder through a Change Control Process.
- 11) The authority have the rights to reduce or drop any item from the scope of work (i.e. Reports & Advisories) which will be binding to the bidder.

15.1 Communications

The Official Email of the DAG: dir-agr@gujarat.gov.in; dgmtech-gil@gujarat.gov.in

All communications including the submission of EMD should be addressed to:

Director of Agriculture

Krishi Bhavan, Sector 10 A, Ch Road, Gandhinagar 382 010

Tel. No. - 079-23256116

E-mail: dir-agr@gujarat.gov.in;

dgmtech-gil@gujarat.gov.in

Website: www.dag.gujarat.gov.in

16 Scope of Work

16.1 Details of Scope of Work for Agriculture Monitoring System

The scope of work is designed in order to enhance the capability for monitoring crops by integrating and analysing data from various sources in order to create insights and advisories for different stakeholders involved.

The detailed scope of work is as under:

1. Satellite Image Procurement

The procurement of required satellite image would be done by the selected bidder. The department will facilitate the selected bidder to procure the satellite image by issuing a letter to NRSC if required. The spatial resolution of the image shall be at least 5 meter or better with higher temporal resolution shall not be more than 5-7 days for the optical data. Multispectral satellite data should have minimum of 4 (four) spectral bands viz. Blue, Green, Red and Near InfraRed (NIR), with 5 m or better spatial resolution. In the absence of cloud free optical data, other bands data can be used. Additionally, if required, some other very high spatial resolution of satellite images may be used for the data processing subject to prior approval from the authority. At least 3 dates imageries must be procured during each crop growing season. Though, additional acquisitions may be procured as per requirement to cover specific events/ regions and to meet the sampling size of specific analysis.

2. Field Survey

Field survey is one of the essential components of crop classification using remote sensing data. Selected bidder should conduct at least 1% GT of total sowing area in a season at different crop growing stages or as per authority's requirement. The field surveys should be conducted well distributed according to crop area and crop type in different parts of the study area to gather primary as well as secondary information about the crop from the field. Field staffs will record the latitude and longitude of the location along with associated attribute information related to crop type, sowing date, crop growth stage etc. through mobile application. This ground-truth data should be updated in the crop map. The authority may provide the field survey data to the selected bidder of the previous years for planning field survey well in advance in the beginning of the crop season. The selected agency should submit the field survey plan to authority before the season begins.

3. Crop Acreage & Production Monitoring System

A. Crop Identification:

To assess the crop specific management in a spatial temporal context accurately parcel/village/GP level crop present in a season is essential. Selected Bidder should develop necessary crop classification algorithms where 70% GT data collected may be used to train the classifier to identify and classify the crop sown in the field including horticulture plantations, parcel wise and aggregate in to village, block, district and state as per the requirement of the department. The selected bidder needs to acquire / create the required parcel/ village /GP level crop data. In the absence of cadastral data, the bidder needs to define the farm boundary. The unit for the report will be Village in case parcel data is not available. Selected Bidder should also generate the confusion matrix using rest of the 30% GT data for independent accuracy assessment of the produced output. Selected bidder should cover all the crop sown in a village (crops mention below and other crops if any)

The major Kharif, Rabi, Summer and Horticulture-fruit crops are as follows:

S.N.	Kharif	S.N	Rabi	S.N	Summer	S.N	Horticulture (Fruit)
1.	Groundnut	1.	Wheat	1.	Groundnut	1.	Mango
2.	Paddy	2.	Isabgul	2.	Paddy	2.	Sapota
3.	Maize	3.	Cumin	3.	Bajara	3.	Banana
4.	Ragi	4.	Maize	4.	Jowar	4.	Pomegranate
5.	Tur	5.	Jowar	5.	Sesamum		
6.	Pulse crops (Mung, Math & Urid)	6.	Rapeseed & Mustard	6.	Pulse crops (Mung & Urid)		
7.	Cotton	7.	Potato				
8.	Guar	8.	Onion				
9.	Bajara	9.	Sugarcane				
10.	Jowar	10.	Garlic				
11.	Sesamum	11.	Fennel				
12.	Castor	12.	Gram				
13.	Tobacco						
14	Soyabean						

B. Crop acreage estimation:

Real time crop area statistics plays an important role in planning and allocation of resources. Selected bidder should map the crops and make collective crop wise, area wise crop acreage estimation report. It should be continuing throughout the period as sowing date is not fixed and some crops are being cultivated throughout the year irrespective of season. All the districts of Gujarat state would be the area of the project. The average approximate areas under cultivation are 87 lakh ha in Kharif, 30 lakh ha in Rabi and 12 lakh ha in summer season. Gross area under horticulture crop is around 18 lakh ha. The authority may provide historical crop data. Data provided by the authority will be for the reference only.

C. Crop yield modelling and production:

- I. Crop production estimation typically calculated based on yield data and crop acreage estimation. Forecasting crop production estimation in time is vital for department to plan their activities related agri marketing. Hence selected bidder should integrate crop yield prediction results obtained through data analytics and crop models at earliest and with crop acreage estimation created from satellite remote sensing in order to forecast the expected crop production over a given area and determine how much of the crop will be produced. Ideally, this report should be submitted once the final crop acreage report has been finalized
- II. Crop yield determination is a crucial function in planning for food security of the population and economy. Thus, prediction of crop yield estimates with reasonable accuracy prior to harvest is important, since timely interventions can take place in case low yields are predicted. For crop production estimation, selected bidder should develop appropriate crop yield model based on spectral & weather data, land & soil parameters, agronomical parameters at parcel/ village or gram panchayat level. The selected bidder should develop crop yield models for the major crops such as Paddy, Wheat, Cotton, Groundnut, Mustard, Gram, Castor etc. The authority may also add additional crops for the yield models in future as per the requirement. The authority should notify the crops before beginning of the season to the selected bidder. For crop yield determination selected bidder should submit yield report twice in a season, one month before harvesting and one month after harvesting once the CCE data are

available, the final report after necessary validation should be submitted to the authority. The list of crops for which the yield should be provided is mentioned in RFP. The authority may provide the historical yield and production data to the selected bidder.

4. Weather Pattern

A. Monitoring of droughts/dry spells (on event occurrence)

Monitoring of weather parameters and drought patterns are essential for department to plan their activities draft the policies. Selected Bidder should analyse multiyear weather and remote sensing to analyse the drought pattern using geo statistical and data analytics algorithms. The selected bidder needs to acquire the weather data including the forecasted data. The authority may provide the weather data. Data provided by the authority will be for the reference only. Selected Bidder shall provide information with prediction of the rainfall patterns of an area with time difference between the current rainfall and the next rainfall.

B. Flood mapping and monitoring (on event occurrence)

The agriculture sector is vulnerable to floods, Floods can inundate farmlands and cause major damage to crops, especially if they strike during planting or harvesting time. In case of a flooding event selected bidder should map submerged area/ flooded area in case of any natural or local calamities using real-time remote sensing data. Selected Bidder should provide information of crop acreage of the area with crop situation. Selected Bidder should also map out the areas that are probable flood zone and lacking proper drainage.

5. Crop Loss Assessment (on event occurrence)

Accurate Estimation of crop loss assessment at parcel level is very crucial in crop insurance or different compensation schemes. In the event of crop damage due to any natural or local calamities or disease/ pest infestation, selected bidder should provide overall scenario as well as parcel wise data with determine extend of damage in a particular crop. Crop loss assessment should cover loss happening during different stages of cropping period such as sowing time, mid-season and harvesting time. Crop loss assessment should be done by satellite data and it should be supported by the field survey.

6. Advisory

Selected bidder should provide advisory in following manner;

I. Advisory to department

Selected bidder should provide advisory to the department for the stress identification, weather pattern, cropping pattern with the area to be approach for solution with crop acreage and crop situation of the particular area. Advisory should be accessible through web platform as well as mobile application.

II. Advisory to extension functionaries

Selected bidder should provide selective area information to the concerned extension functionaries for the subject narrated in the document. These advisories should be available to the field functionaries through mobile application. Field functionaries will be extension officers and other officials as deemed necessary by the authority.

III. Advisory to farmers:

i. Generalised advisory to all farmers

Advisory which are general in nature should be disseminated to all the farmers of the given area. Generalized advisories should be at Taluka level and it should highlight specific region if any concerns are there. Separate validation mechanism shall be finalized once the project is operational.

Farmer mobile application should have the facility for

- To integrate the weather data from Automatic weather stations (AWS), IMD and any other reliable weather data sources. Weather forecast should include forecasted rainfall, temperature, humidity, wind speed and cloudiness.
- To provide soil preparation advisory services at beginning of the cropping season
- To provide crop management practice to the farmers at each crop growth stage
- Backend platform of the mobile app should have the facility to maintain crop knowledge database which includes recent best package of practices for individual crops

ii. Personalised advisory

Selected bidder should provide mobile based facility for registered farmers, where farmer can pin their farm to get crop situation and personalised advisory. Selected bidder should provide farm specific personalised advisory. Personalized advisories should be at the parcel level. Personalized advisories are to be generated using the satellite data however the mobile application should have the provision for farmers to upload image and comment text through their application. Department will help bidder for the registration of farmers or on boarding them to the platform.

Subject for advisory:

a. Advisories on sowing and harvesting time

Information on best time for sowing will help farmers to plan their sowing related activities in advance. Also, Identification of crop wise planting dates spatially will to identify areas which are behind in sowing, which will help department analyse reason and implement the contingency measures. Selected bidder should create advisories for farmers on best possible sowing date based on weather prediction. Also, the selected bidder should create additional reports at the end of season analyzing the sowing pattern for the identified crops based on planting date by using multi temporal satellite data on basis or the time period given by department. Selected bidder should also identify the probable harvesting date by using satellite data integrated crop models and submit the report to department.

b. Advisories on crop stress

Crop condition and stress identification at early stages of the crop is essential for farmers to do necessary action in time and also agriculture department to better monitoring of crop health and yield. Selected bidder should assess the crop health condition of each crop periodically through remote sensing and field visits. On abrupt change of crop health or such anomalies in any area of the state, should be detected and provide advisories to farmers. Selected bidder should also provide the department with detailing of the area, crop situation, acreage and cause of stress as an additional report as well.

c. Advisories on pest and disease infestation

Early identification of a crop disease or pest can lead to faster interventions with resulting reduced impacts on food supply chains. Selected Bidder should develop algorithms for pest and diseases symptoms identification which is integrated with mobile applications. The mobile application will provide advisories to farmers in order to prevent the possible outbreak especially an epidemic situation. Also, bidder should submit an additional report to agriculture department which should include the disease/ pests in area, extent of damage. Pest & disease spread analysis should be done by satellite data and it should be supported by the field survey.

d. Advisories on soil moisture stress and Irrigation Application

Sufficient levels of soil moisture are essential for optimum plant growth and high crop yields. To determine the quantity of moisture in the soil is crucial importance for crop production to avoid water stress, but also for the mitigation of adverse environmental impacts due to over-irrigation as well as for the conservation of water resources. Thus, selected bidder should develop an indirect method for estimating soil moisture data where soil data, remotely sensed data like microwave data can be utilized. Derived soil moisture should be used to provide personalized irrigation advisory to farmers to advice on irrigation requirement and application. Selected bidder should to also provide additional reports and maps to department on estimated soil moisture and irrigation requirement at village level.

e. Advisories on weather pattern

Selected Bidder should provide analysis with past and current weather data and forecast the weather pattern. Selected Bidder should analyse the inputs/ dataset on weather situation provided by the department and generate forecast and advisory accordingly.

The mobile application should have

- Facility to register farm boundaries through GIS map tools where Farmer can digitize the farm boundaries by walk or draw a polygon on the high-resolution satellite image
- Facility to record cropping season, crop details and irrigation facility details of each survey number
- Provide contextual crop advisories to individual farmers based on the crop type and phenological stage of the crop sown.
- Have option to view and analyze the optimum sowing date based on the weather data
- To generate Crop Activity Calendar for the entire crop lifecycle automatically based on the sowing date input from farmer registration
- To provide Irrigation management advisories based on the WRD data, Crop data, Soil data and rainfall data
- Should be providing advisory on best possible time for harvesting based on the forecasted weather and crop calendar so the farmer can plan the activity well in advance
- Backend platform of the mobile app should have the capability to predict pest and diseases using crop models and should provide controls advisories as preventive action.
- Backend platform of the mobile app should have the capability to predict the expected harvesting date for each crop based on the sowing date and varying weather parameters in season
- To disseminate disaster forecast, context specific damage mitigation advisory to respective farmers based on the age and stage of the crop

7. Database Management (DST)

Selected bidder should procure satellite imageries specified in the tender document, analysed with different techniques for the scope of work narrated in the document. For on-going data analysis during the season data processing shall be done on cloud servers by the selected bidder. And after the completion of each season/ year (whichever is feasible) all the generated data shall be deployed / stored at Gujarat State Data Centre (GSDC) server along with security certificate and credentials. Data can be archived post 180 days. All raw and processed data should be available till the end of contract.

16.2 Command and Control Unit

1. Facilities

Design Considerations:

1. The project includes designing, engineering, supply & installation of Agriculture Operations & Command Centre (AOCC) and other office set up pertaining to the centre.
2. Satisfactory environmental conditions for operator personnel - including noise, air flow, temperature and humidity should be ensured. Adequate space for personnel and equipment for the movements and activities they are required to perform during operation and maintenance, under both normal and emergency conditions.
3. In broad, the scope of work and supply shall consist of the following parts
 - a) Interior design, engineering for the operation centre
 - b) All related services for supply, installation, testing
 - c) Maintenance and warranty throughout project duration
4. General Considerations
 - a) The tentative control room area shall be 2100 square feet, and within this area the control room (provisioned for 30 personnel), conference room (provisioned for 20 personnel), Team room, waiting area, and 2 manager offices will have to be constructed. This will include raised flooring, carpeting, false ceiling, electrical cabling, network cabling, minor civil works to create partitions for offices and remove existing partitions/walls, if any, based on acceptable civil engineering practices, provisioning of all furniture, installation of furniture, non-IT and IT infrastructure.
 - b) Selected Bidder shall be responsible for safety and security of the installed item still commissioning and final acceptance by selected bidder or committee appointed by selected bidder.
 - c) Quality assurance & commissioning of the complete system at site to the complete satisfaction of the selected bidder or committee appointed by selected bidder.
5. Ergonomic Design: AOCC site should be ergonomically designed and should follow Control Centre Ergonomics Standards.
6. Cabling at Site: Entire cabling at AOCC shall be rat protective and insulated. The selected bidder shall ensure that proper earthing and cooling requirements are met at control centre.

7. Network Connectivity: The AOCC shall have dedicated connectivity for display/monitoring of agriculture insights and also have provision to interface with external systems such as weather stations, news feeds. The selected bidder should also provision for redundant internet connectivity for failover situations.
8. Physical Security at AOCC: Physical security at control Centre shall be maintained using access control device / biometric based authentication. The entire physical security system will be set up based on user authentication and room wise security provisions.
9. Control Centre should be equipped with relevant signage. The signage should be easy to read and highlighted in case of any disaster to guide control room staff to safety.

Overview of Requirements:

#	Name of the Room	Approximate Dimensions (All in feet)	Capacity (Persons)	Scope Inclusions
1	Control Room	50 X 20	30	Civil Works, Raised Floor, False Ceiling, Electrical and Network Cabling, Video wall setup, Furniture Setup, Non-IT infrastructure set-up, IT infrastructure and systems set-up
2	Conference Room (With glass panels facing operations control rooms)	20 X 20	20	Civil Works, False Ceiling, Electrical and Network Cabling, Video Screens setup, Furniture Setup, Non-IT infrastructure set-up, IT infrastructure and systems set-up
3	Manager Rooms (2 cabins)	10 X 10	1 + 4	Civil Works, False Ceiling, Electrical and Network Cabling, Furniture Setup, Non-IT infrastructure set-up, IT infrastructure and systems set-up

1. Control Room:

Sr. No.	Line Item	Quantity
1	Workstations (Minimum specifications are mentioned in Annexure-12)	20
2	Multi-Function Printer (Heavy Duty) color	1
3	Indoor Wifi Access Points	5
4	Video Wall (Minimum specifications are mentioned in Annexure-12)	1
5	Network based Video Wall Controller	1

6	Video Wall Monitoring Software	1
7	Managed Switch	2
8	NVR based cameras	4
9	Fire Panels	1
10	Furniture, Cooling, Electrical and Networking Cabling (Quantity based on number of personnel occupying the room)	30

2. Conference Room:

Sr. No.	Line Item	Quantity
1	Workstations (Minimum specifications are mentioned in Annexure-12)	1
2	Indoor Wifi Access Points	5
3	Video Screens	2
4	Projector	1
5	Furniture, Cooling, Electrical and Networking Cabling (Quantity based on number of personnel occupying the room)	20
6	Video conference solution license with 250 concurrent users	1

3. Manager Rooms:

Sr. No.	Line Item	Quantity
1	Desktop	2
2	Color Laser Printer	2
3	Furniture, Cooling, Electrical and Networking Cabling (Quantity based on number of personnel occupying the room – include 4 visitors)	1
4	Video Screen (56 inches)	2

Interior work for the Control room

Selected Bidder shall supply & commission office furniture for all sections of AOCC as already mentioned in the above sections. The detailed quantity of the furniture along with Technical specifications has been mentioned below:

- Supply of Factory-made removable type self-inter-lockable metal panels. The panelling design shall comprise of specially designed combination of perforated and non-perforated panels.
- Full height glass partitions walls shall be made of toughened glass with frame- less structure.

- The ceiling panels should be made up of combination of perforated and non-perforated panels to achieve strength and acoustics.
- The selected bidder should provide LED office General Lighting Solutions offering best quality energy saving and maintenance free lighting operation.
- Best quality Windows Blinds System with extruded aluminium head rail finished in silver anodized
- Fully vitrified, minimum 8mm thick non-porous, homogenous, abrasion resistant of approved Colour shall be laid over concrete floor with laying compound
- Wires for ceiling lights inter looping and switches will be provided, consisting of PVC insulated copper conductor stranded flexible wires, in PVC/ metallic conduits
- The Selected bidder has to do minor civil work in the control room if required
- The civil work may include wall painting, building customization & repairing *etc.*
- The selected bidder shall do the necessary interior customization work if required during the office furniture set up.
- The selected bidder shall also maintain the control room pertaining to civil work & interior designing *etc.*
- The Selected bidder has to supply office furniture for the entire setup.
- The selected bidder shall commission the office furniture in the identified rooms and do minor civil work in the control room if required
- The selected bidder shall maintain the furniture and do necessary repairing for any defect/ damage occurred to the office furniture.

2. Human Resource

- I. Project Manager/ IT Staff – 1 [M.Sc.(IT)/ M.B.A. (IT)/ M.C.A.]
- II. Remote Sensing– 3 [M.Tech./ M.E. / M.Sc. (Remote Sensing /Geo-information/ GIS)]
- III. Agriculture Expert -7 [M.Sc. (Agri) /M. Tech. (Agril. Engg.)/Subject Matter Specialist with 2-5-year experience]
- IV. Data Scientist – 2 [M.Tech./ M.E. (Remote Sensing with experience in Data science/agriculture Analytics)]
- V. Support Staff –5 [Any graduate and understanding of IT systems]

Note:

1. The resources mentioned in AOCC will not be required from day 1 and they should be deployed after AOCC setup. The resources proposed in AOCC will be working with

DAG for overall coordination, monitoring and in support. The selected bidder will have separate manpower for the project execution.

2. All the IT infrastructure associated with personnel in AOCC is to be borne by the bidder. Ownership of the assets will be on name of DAG.
3. The ownership of the assets or goods & services will be produced in the name of bidder and then it will be transferred to DAG on delivery and installation (post release of payments) of the assets or goods & services by the selected bidder. The bidder will bear the risks till project tenure.
4. The selected bidder will be responsible for the insurance of the goods & services till the project tenure.
5. The bidder will be responsible for the MPLS bandwidth required at AOCC, and provision bandwidth, and all network termination equipment (switches, routers, cables, *etc.*) at command centre based on the sizing. Bidder will be responsible for the connectivity at AOCC.
6. The authority will provide room (building premises) for AOCC. Bidder will be responsible for development of civil works, raised floor, false ceiling, electrical and network cabling, video wall setup, furniture setup, non-IT infrastructure set up, IT infrastructure setup
7. The authority will be responsible for application of permissions of power line and water supply. Electrical and water charges will be borne by the authority. The bidder will make arrangement for Online UPS (with 30 Min. backup) & DG set at AOCC for power down time of at least 8 hours
8. Layout of AOCC will be shared with the selected bidder
9. AOCC is expected to operate during office hours as per Govt. of Gujarat's calendar and AOCC should be operational as and when required by the authority.
10. Non IT infrastructure will include raised flooring, carpeting, false ceiling, electrical cabling, network cabling, minor civil works to create partitions for the offices and remove existing partition / walls, if any, based on acceptable civil engineering practices, provisioning of all furniture, installation of furniture, and any other items required to make AOCC operational.
11. The selected bidder will be responsible for operation and maintenance of AOCC till the end of contract.
12. The proposed staff for AOCC should have suitable education qualification and technical expertise for the post mentioned.

17 Platform Customization and Configuration

The selected bidder should design and develop the application for preparation and analysis of crop insights, advisories and integration of various services. The department & farmers would be able to access the information and it would serve for the decision making and as an early warning system. The selected bidder has to prepare SRS and design documents for customization of the platform. The selected bidder should interact with the department in regular basis for requirement gathering, for customization and development of the solution.

The platform would be designed for department and stakeholder use. The main objective of the development for a portal is to share crop information and advisories to all stakeholders. This portal will provide access for analyzing crop map, crop condition, soil moisture data, crop yield *etc.*

17.1 Application customization, configuration, host and management

The selected bidder will also design, build and deploy various applications which will be part of the application. The selected bidder also has to host, manage and maintain these applications.

Requirement Study

The selected bidder should study the functioning of the agriculture department and various processes in order to understand the existing system and pen down the requirements from various stakeholders. The selected bidder should identify the stakeholders with the help of the authority and necessary information should be collected by designing questionnaire, interviews with respective stakeholders. The stakeholders will be DAG officials, scientists from agriculture universities and farmers.

The selected bidder should submit the detailed requirement document to the authority and it should be reviewed and approved by the authority. The selected bidder may also suggest additional functionalities which could be incorporated within the limit of scope of work mentioned in the RFP.

Functional Requirement Specification (FRS)

The selected bidder should prepare the Functional Requirement Specification (FRS) once the requirement study has been finalized and approved by the authority. In the FRS, the selected bidder should mention each and every requirement in a detailed way and with all the necessary features.

The selected bidder has to submit the FRS to the authority for their reference and note any suggestions received from the authority before the customization process starts.

Customization & Configuration

The selected bidder would be responsible for the customization and configuration of the application. The developed application would be verified against approved SRS.

17.2 Web Portal

The web application would be an integral interface for all the stake holders involved. Stakeholders should have to go through secured authentication level where the users will get a dashboard to access all the functional applications role-based and personalized to individual requirements.

For e.g., farmers should have facility to have access on various aspects of agriculture such as crop calendars, status of their applications on various subsidies Agriculture officer or gram sevak should be able to do approvals. The platform i.e. web portal & the mobile applications shall be hosted on the Meity empanelled cloud service provide for on going data processing by the agency. The portal should have pre- filled forms by fetching data for that beneficiary from the database. Some of the specifications, but not limited to, of the web portal are as follows:

- The web application should have strong authentication and security features and should maintain security rights and privileges through an Integrated Management Solution
- Development of the application is suggested / preferred in Open Source Technology
- The application should not allow concurrent sessions for same user.
- The application should support workflow management system in which all the departmental activities should be integrated.
- The application should support all the major browsers like Internet Explorer, Chrome, Firefox and both android and IOS mobile operating systems
- The application should have multi-lingual capabilities i.e. Gujarati & English
- The application should be interoperable with industry standard databases
- The application should provide search engines with advanced full text search capabilities
- The application should support HTTPS protocol on Secure Socket Layer (SSL)
- The application should provide support for comprehensive audit trail
- The application should support web services/API and integrate with common business applications
- The application should be integrated with standard email and instant messaging services

- The application should integrate with other products and components of the platform via open standards
- The application should support virtualization, encryption and compression features should have provision to view and analyse historical crop area, production & yield.
- Should have facility to get area, production and yield data by firing dynamic query. The data should be displayed in graphs, chart forms
- Should have provision for department officials to upload their reports such as weekly sowing report, forecast report, crop conditions report etc. in the format provided on the portal. Also, the portal should have facility to store, track and monitoring of the data at different administrative levels
- Should have facility for gram Sevak to report any pest or disease incidence at village level in the format provided on the portal.
- Should have facility for gram Sevak to record collected aggregated yield data at village level in the format provided on the portal.
- should have facility for District Agriculture officer to view the aggregated pest and disease information registered by Gram Sevak at district level in the format provided on the portal and make strategic decisions
- Should have Facility to record the disaster and crop damage against each crop along with damage estimation data, evidences and damage audits in the format provided on the portal.
- Should have Facility to estimate and record the crop production damage against each crop
- Should have facility to view the potential threat area, due to different natural calamities, their vulnerability profile and their occurrence frequency.
- Should have database backup where data should be stored for contract duration plus 6 months additionally after the project completion

17.3 Mobile Application

The mobile application is the integral part of the solution. Some of the specifications, but not limited to, of the mobile application are as follows:

- The Mobile Application should provide an intuitive and user-friendly GUI that enables users to navigate and apply actions with ease. The GUI should be responsive with very little or no delays or time lag at launch or whilst navigating through screens
- Application should contain pre- filled data and forms

- Mobile app should be compatible with Android and iOS
- Application should incorporate analytics to identify user experience patterns
- Application should not occupy excessive RAM
- Application should follow strict authentication, privacy and security features
- Page loading /refreshing should be quick
- Facility to obtain real time GPS information
- It should enable ease of configuration and change to existing GUIs and support introduction of new screens
- Screen design should be resolution independent

17.4 Application Features

1. **Open Standards Based** – The portal must compliant OGC standard and services like WMS (Web Map Service), WCS (Web Coverage Service) and WFS (Web Feature Service). It should be open to avoid being captive by any proprietary technologies, have provisions for data access by third parties and should be modular enabling scale up and reuse by third parties. Vendor neutral APIs should be used by the platform.
2. **Scalable** – The platform should be based upon service models and it should demonstrate robustness. The service models can be chosen from Software as a service (SaaS), Platform as a service (PaaS) and Infrastructure as a service (IaaS). For the scalability, the load has to be distributed across system. Instead of entire application accessed through web portal, it should be built with stateless APIs that can be scaled horizontally.
3. **Interoperability** – The platform should have capability to integrate / interoperate with different technologies, protocols or any third party application providers. The platform should be non-intrusive in allowing integration of different services.
4. **Multi - Channel Support** –Based on the requirement of the stakeholder, multi-channel delivery such as web portal, SMS, IVR, mobile applications *etc.* should be supported by the platform. The expense of SMS, ATS and IVR will be borne by the bidder. Universal user interface should be provided across channels.

17.5 API First Approach

- The platform should be based on open API approach as multiple channels like web portal, mobile applications and other interfaces should access the platform
- Adaptable architecture should be supported for changing business needs and end user requirements.

- It would have integrated various systems, applications, databases already being used or to be built for future
- Selected bidder has to set up, and maintain systems and processes for following APIs. The authority does not have any available APIs.
 - Authorization and license key management
 - Standardization
 - Authentication
 - Version Control
 - Environment management
 - Security Governance
 - Audit Trail

Testing

Testing should be initiated by the selected bidder along with the requirement finalization where test cases and test plan should be designed simultaneously. The selected bidder should submit the test cases and test plan and it should be approved by the authority. Standard best testing practices should be followed throughout the testing phase.

Testing should be performed in spring manner and the identified bugs / issues should be resolved in the respective spring only. The selected bidder should maintain the record of bug / issues with their status and it should be submitted to the authority after each testing phase. The selected bidder should perform following testing (but not limited to):

a) Unit Testing

Once the customization and configuration phase is over, each module of the application should be tested end to end. The selected bidder has to demonstrate the system is a controlled production environment where the data which is being utilized in a multiple module are managed efficiently.

b) Performance and Load Testing:

The selected bidder would develop performance scenarios of performance conditions of the application which should be reviewed and approved by the department. The application along with its infrastructure should successfully meet the criteria for the response time. The selected bidder should gather run analytics to understand realistic usage and setting up the

infrastructure to meet the performance. Selected Bidder should submit required reports to the authority.

c) User Acceptance Testing (UAT):

The selected bidder should submit UAT test plan and it should be reviewed and approved by the authority. The application would go for UATs when the test results of unit testing and performance testing are submitted to the authority. UAT will be performed as per the test plans and the team performing UAT would categorize the defects in critical, high, medium and low priority. The critical defects identified should be fixed and retested before go-live whereas 90% of high priority should be fixed before go-live. The medium and low priorities defects should be fixed within 1 month of go-live.

d) Security Testing:

The selected bidder should perform security testing before hosting the application. In the security testing should be performed by CERT-in empanelled selected bidder. In the security testing, web application, mobile application, external threat testing, system vulnerabilities *etc.* should be tested.

The findings of security testing should be resolved and the certificate should be submitted to the authority before hosting of the application.

Deployment of the Application

The selected bidder should deploy the successfully tested application on the cloud/DST. The cloud service provided should be MeitY empanelled **(During the project tenure the CSP must be empanelled with MeitY)**. The selected bidder has to bear the cost of cloud infrastructure and necessary access of the applications and data should be provided to the authority. The cloud service should be procured in the name of bidder.

The selected bidder should maintain following environments on cloud.

- Development environment
- Testing environment
- Staging environment
- Production environment
- Disaster recovery

After go-live any change requests should be done in the development environment and thorough testing should be performed. The bugs should be fixed before moving to staging and subsequently production environment. Disaster recovery should replicate the production environment and the backup should be taken at the regular interval. Recovery Point of Object (RPO) is expected as 8 hours. Recovery Time of Object (RTO) is expected as 12 hours.

Training & Handholding

The selected bidder should carry out the trainings for the department officials and for the farmers. The training will be conducted at the department's training facilities / camp / conferences *etc.* where the selected bidder needs to provide resource persons and required training material. Gujarat has approximately 50 lakh farmers, and approximately 7000 agriculture officials. Tentatively, the selected bidder needs to conduct 2 trainings per district during the 1st year of implementation and subsequently 1 training per district per year for the rest of the project period. The selected bidder should submit a training plan to the authority before conducting the same. The training timeline and the audience of the trainings would be decided by the authority. The selected bidder should provide necessary materials while training sessions and the details of attendees should be submitted to the authority after each session.

The training session would involve demonstration of web application, mobile applications, understanding of reports, IPR *etc.* All the documents related to Software / Hardware architecture need to be delivered in English & Gujarati language during the handholding.

Go-live of the Application

The selected bidder should submit following before Go-live to the authority:

- Final Go-live and UAT certificate from the authority
- Proofs of trainings conducted
- User manual bilingual
- Security certificates
- All necessary software documents of delivered product (SRS, FRS, design document, test plans, test cases, test results, as-built drawings, *etc.*)

The committee will decide the Go-live exit criteria such as software rights and other related clauses and it will be shared with selected bidder during the execution of project.

Operations and Maintenance (O&M)

The selected bidder should submit a plan for operations and maintenance services for applications delivered to the authority. The O&M period would start from the date of Go-live and the period of O&M would be for 54 years. The selected bidder has to carry out following activities during O&M period:

- Maintain the implemented applications as per agreement terms mentioned in RFP
- Implement changes as per terms and conditions of RFP
- Trainings to be conducted for government officials as and when required
- All the SRS, FRS and other concerned documents with updated/modified changes during the O&M phase needs to be updated regularly and submitted to the department.

18 Eligibility Criteria & Bid Evaluation Procedure

18.1 Pre-Qualification Criteria

Sr.	Qualification Criteria	Documentary Evidence
1	The Sole Bidder and all the consortium partners shall be registered in India under Companies Act 1956 / 2013 should have registered office In India and should be in existence for at least 5 years as on 31/03/2022.	Copy of certificate of Incorporation issued by Registrar of Companies
2	The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22). ¹	CA certificate and an audited Profit and Loss Statement for the last three financial years (i.e. 2019-20, 2020-21 and 2021-22). A certificate from CA/ statutory auditor.
	In case of consortium, the consortium partner should have achieved average annual turnover of at least INR. 15 Crores from ICT business (Design and development of software and mobile application, cloud services, supply of hardware, system integration, operation and maintenance services) in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).	CA certificate and an audited Profit and Loss Statement for the last three financial years (i.e. 2019-20, 2020-21 and 2021-22). A certificate from CA/ statutory auditor.
	The Sole Bidder/ Lead Bidder/ Consortium Partner/ OEM(or solution provider of OEM) average annual turnover for the last three financial years (i.e. 2019-20, 2020-21 and 2021-22) from the IT based agriculture/ Remote sensing projects must be minimum INR 15 Crore.	CA certificate and an audited Profit and Loss Statement for the last three financial years (i.e. 2019-20, 2020-21 and 2021-22). A certificate from CA/ statutory auditor.
3	The Sole Bidder/Lead bidder and all the consortium members must have minimum experience of five(5) years from the bid submission date in India with either State or Central Government.	Work order and completion certificate from the client showcasing the years of work experience.
4	The Sole Bidder/Lead bidder and all the consortium members should have positive net worth as on 31 st March 2022.	A certificate from CA/ statutory auditor.
5	The Bidder should have the valid ISO 9001:2015 and/or CMMi level 3 certification or better as on bid submission date	Copy of the certificate(s) signed and stamped by the authorized signatory of the bidder.

¹Parent entity turnover will be considered, provided parent entity is registered in India and has been operational for more than five years, and has ownership of greater than 50% in the bidding entity as of the bid submission date. A letter will be required from parent entity stating the ownership pattern and the support that will be extended for the bidding entity.

6	The Bidder shall not be under a declaration of ineligibility / banned / blacklisted by any State or Central Government / any other Government institutions in India for any reason as on last date of submission of the Bid.	A self-declaration government notarized copy is required
7	The bidder must have experience in successful execution of similar projects in India during last five years from the date of bid submission. With value listed below. ² 1) One project of similar nature with the value of at least 40 crore or 2) Two projects of similar nature with the value of at least 25 crore or 3) Three projects of similar nature with the value of at least 20 crore	Work Order and Completion Certificate from the client
8	The Bidder must have its working office in State of Gujarat OR Bidder has to give undertaking to setup office in Gujarat within one month of contract receipt.	Office address proof (company incorporation certificate / agreement / any other document)
9	Undertaking as per Office Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 & Office Memorandum No.: F.18/37/2020-PPD dated 08.02.2021 published by Ministry of Finance, Dept. of Expenditure, Public Procurement division	On letterhead of Bidder & OEM

² Similar project is defined as a project that entails Satellite data, Crop Mapping, Crop Identification, yield estimation, agriculture web and mobile application (only agriculture web and mobile application will not be considered) for central, state government or any government enterprise in India. Projects from Sole Bidder/Lead Bidder/Consortium Partner/OEM (Or solution provider of OEM) may be considered.

18.2 Technical Qualification Criteria

Sr.	Evaluation Criteria	Max Marks	Documents Required																		
1	<p>The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crore in IT / ITES Business in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).³</p> <p>Turnover: -</p> <table><tr><td>1.</td><td>>=150 &< 200 Cr</td><td>5 Marks</td></tr><tr><td>2.</td><td>>=200 and <250 Cr</td><td>7.5 Marks</td></tr><tr><td>3.</td><td>>= 250 Cr</td><td>10 Marks</td></tr></table>	1.	>=150 &< 200 Cr	5 Marks	2.	>=200 and <250 Cr	7.5 Marks	3.	>= 250 Cr	10 Marks	10	CA certificate and an audited Profit and Loss Statement for the last three financial years (i.e.2019-20, 2020-21 and 2021-22). A certificate from CA/ statutory auditor.									
1.	>=150 &< 200 Cr	5 Marks																			
2.	>=200 and <250 Cr	7.5 Marks																			
3.	>= 250 Cr	10 Marks																			
2	<p>The Sole Bidder or Lead Bidder experience of executing large scale projects in India for PSU/ State Government/ Central Government.</p> <table><tr><td></td><td>Project worth</td><td>Achieved By single project</td><td>Achieved By two or more projects</td></tr><tr><td>1.</td><td>>=20 Cr</td><td>5 Marks</td><td>2.5 Marks</td></tr><tr><td>2.</td><td>>=35 Cr</td><td>7.5 Marks</td><td>5 Marks</td></tr><tr><td>3.</td><td>>=50 Cr</td><td>10 Marks</td><td>7.5 Marks</td></tr></table>		Project worth	Achieved By single project	Achieved By two or more projects	1.	>=20 Cr	5 Marks	2.5 Marks	2.	>=35 Cr	7.5 Marks	5 Marks	3.	>=50 Cr	10 Marks	7.5 Marks	10	Copy of completion certificates and Work orders/Contract Agreement from the client.		
	Project worth	Achieved By single project	Achieved By two or more projects																		
1.	>=20 Cr	5 Marks	2.5 Marks																		
2.	>=35 Cr	7.5 Marks	5 Marks																		
3.	>=50 Cr	10 Marks	7.5 Marks																		
3	<p>The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed / Similar Digital Agriculture System which should have been used to represent agricultural insights.</p> <p>The land area covered per season must be at least 25,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.</p> <p>Evaluation weightage is as per bellow</p> <table><tr><th rowspan="2">Sr. No</th><th rowspan="2">Area Covered (Sq. Km) per one cycle of data image processing</th><th colspan="2">Marks</th></tr><tr><th>One season</th><th>More than one season</th></tr><tr><td>1</td><td>>=25000 to <50000</td><td>3 Marks</td><td>5 Marks</td></tr><tr><td>2</td><td>>=50000 to <75000</td><td>5 Marks</td><td>10 Marks</td></tr><tr><td>3</td><td>>=75000</td><td>7.5 Marks</td><td>15 Marks</td></tr></table> <p>Minimum five crops must have been classified in a single season</p>	Sr. No	Area Covered (Sq. Km) per one cycle of data image processing	Marks		One season	More than one season	1	>=25000 to <50000	3 Marks	5 Marks	2	>=50000 to <75000	5 Marks	10 Marks	3	>=75000	7.5 Marks	15 Marks	15	Copy of completion certificates and Work orders/Contract Agreement from the client.
Sr. No	Area Covered (Sq. Km) per one cycle of data image processing			Marks																	
		One season	More than one season																		
1	>=25000 to <50000	3 Marks	5 Marks																		
2	>=50000 to <75000	5 Marks	10 Marks																		
3	>=75000	7.5 Marks	15 Marks																		

³Parent entity turnover will be considered, provided parent entity is registered in India and has been operational for more than five years, and has ownership of greater than 50% in the bidding entity as of the bid submission date. A letter will be required from parent entity stating the ownership pattern and the support that will be extended for the bidding entity.

4	<p>Sole Bidder/Lead Bidder/ consortium partner/ OEM (Or solution provider of OEM) partner should have an experience of successful execution of at least one similar large scale project ⁴ in Agriculture Domain for government in India by using high resolution satellite data.</p> <table border="1" data-bbox="321 394 1052 583"> <thead> <tr> <th></th><th>Project worth</th><th>Achieved By single project</th><th>Achieved By two or more projects</th></tr> </thead> <tbody> <tr> <td>1.</td><td>>=20 Cr</td><td>7.5 Marks</td><td>5 Marks</td></tr> <tr> <td>2.</td><td>>=35 Cr</td><td>10 Marks</td><td>7.5 Marks</td></tr> <tr> <td>3.</td><td>>=50 Cr</td><td>15 Marks</td><td>10 Marks</td></tr> </tbody> </table>		Project worth	Achieved By single project	Achieved By two or more projects	1.	>=20 Cr	7.5 Marks	5 Marks	2.	>=35 Cr	10 Marks	7.5 Marks	3.	>=50 Cr	15 Marks	10 Marks	15	Copy of Go-Live/Completion certificates and Work orders/Contract Agreement from the client.
	Project worth	Achieved By single project	Achieved By two or more projects																
1.	>=20 Cr	7.5 Marks	5 Marks																
2.	>=35 Cr	10 Marks	7.5 Marks																
3.	>=50 Cr	15 Marks	10 Marks																
5	<p>Resources proposed on project:</p> <ol style="list-style-type: none"> Project Manager- 1: 2 Marks (At least working with the bidder for minimum of last 2 years) <ul style="list-style-type: none"> MBA or equivalent/ PMP certified with 10 years' experience Agriculture domain knowledge Remote Sensing Scientist- 1: 2 Marks (At least working with the bidder for minimum of last 2 years) <ul style="list-style-type: none"> Educational Qualification: M.Sc. /M. Tech/ M.E. or equivalent & Ph.D. Work Experience in the field of Satellite Remote Sensing applications in Agriculture: 15 Years Credentials: Minimum 10 Scientific Paper Publications in the domain of Agriculture and Remote Sensing Agriculture Scientist – 1: 2 Marks (At least working with the bidder for minimum of last 2 years) <ul style="list-style-type: none"> Educational Qualification: M.Sc. /M. Tech or equivalent & Ph.D. in Agriculture Years of Experience: > 15 Years Credentials: Minimum 10 Paper Publications in the domain of Agriculture Data Scientist -1: 2 marks (At least working with the bidder for minimum of last 2 years) <ul style="list-style-type: none"> Educational Qualification: M. Tech/ M.E. in Remote Sensing or equivalent and a Course in Data Science/ Agricultural Analytics Years of Experience: >3 Years Certification: Must have the Certification in Advance Data Science/Deep Learning/Machine Learning 	10	<p>Offer Letter / Agreement of Employee with the company along with HR certificate</p> <p>Annexure -3 with the details</p>																

⁴ Similar project is defined as a project that entails Satellite data, Crop Mapping, Crop Identification, yield estimation, agriculture web and mobile application (only agriculture web and mobile application will not be considered) for central, state government or any government enterprise in India.

	<p>5) Technical Manpower – 10: 2 marks (At least working with the bidder for minimum of last 2 years)</p> <ul style="list-style-type: none">Educational Qualification: M.Sc./M. Tech in GIS/Remote Sensing/ Geospatial Technology or Equivalent <p>Years of Experience: >5 Years</p>														
6	<p>Demonstration and Proof of concept:</p> <p>6.1 Proof of Concept (Max. 20 Marks)</p> <p>Overall accuracy of crop classification and crop health assessment derived from the satellite data</p> <table><tr><td>1</td><td><65% Accuracy</td><td>Disqualify</td></tr><tr><td>2</td><td><75% Accuracy</td><td>0 Marks</td></tr><tr><td>3</td><td>>75% and <=85% Accuracy</td><td>10 Marks</td></tr><tr><td>4</td><td>>85% Accuracy</td><td>20 Marks</td></tr></table> <p>6.2 Presentation (Max. 20 Marks)</p> <ul style="list-style-type: none">Approach & Methodology (Max. 15 Marks)<ul style="list-style-type: none">Solution proposed & its components – 5 marksUse of AI / ML in overall solution – 5 marksGround Truth Planning – 1 marksQuality assessment methodology for remote sensing & Machine Learning derived output – 1 marksChallenges likely to be encountered – 1 marksMitigation proposed – 1 marksIndian client references – 1 marksProject Work Breakdown Structure (Max. 5 Marks) <p>Qualitative assessment based on timelines, resource assignment, dependencies and milestones</p>	1	<65% Accuracy	Disqualify	2	<75% Accuracy	0 Marks	3	>75% and <=85% Accuracy	10 Marks	4	>85% Accuracy	20 Marks	40	
1	<65% Accuracy	Disqualify													
2	<75% Accuracy	0 Marks													
3	>75% and <=85% Accuracy	10 Marks													
4	>85% Accuracy	20 Marks													

Note: In the Technical Qualification Criteria, in the clause number 5, resources mentioned in line item 2, 3, 4 and 5 can be provided by consortium partner/ OEM (Or solution provider of OEM). The resources will be deployed from the day 1 till the entire project timeline.

18.3 POC Note:

As suggested in the point no. 6 of 18.2 Technical Qualification Criteria, bidder needs to do the POC where the bidder is expected to showcase crop classification and crop health assessment. For executing above solutions, satellite image will be a key input. All the bidders are instructed to follow below given guidelines to conduct POC.

The bidder who has submitted the Bid Security are eligible for the POC and need to do following steps:

1. Once the technical evaluation is done, the authority will notify the bidders who have received at least 40 marks out of 60 in the Technical Qualification Criteria
2. Those bidders who did not get at least 40 marks out of 60, will be eliminated and they won't be allowed to conduct POC further
3. The authority will instruct selected bidders in technical qualification criteria to download the satellite image
4. The authority will provide the satellite image name and date for which the image should be downloaded
5. The bidders need to notify the authority once the satellite data is received
6. Once the authority gets notification from all bidders regarding satellite data, the authority will provide 100 Sq. Km. AOI to the bidders along with the Ground Truth (GT) points collected by the mobile application
7. The authority will provide the timelines to submit the results along with the AOI
8. POC will be evaluated through the output presented to the authority. Accuracy will be determined by the authority.

The authority will ensure that each bidder gets sufficient time to execute POC once the satellite data is received. For any query or concerns related to the satellite data procurement should be addressed to the official communication channel mentioned in the tender document.

18.4 Award Criteria (QCBS):

Only bidders scoring more than 60 % marks will be considered for financial evaluation. Bidders scoring less than 60 % marks will be considered disqualified at technical evaluation stage. The cost indicated in the Financial Proposal shall be deemed as final and reflecting the total cost of services and should be stated in INR only. Omissions, if any, in costing of any item shall not entitle the Bidder to be compensated and the liability to fulfil its obligations as per the Terms of Reference within the total quoted price shall be that of the Bidder. The Bidder shall bear all taxes (including GST), duties, fees, levies and other charges imposed under the Applicable Law as applicable. The lowest Financial Proposal (Fm) will be given a financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be determined using the following formula:

$$Sf = 100 \times Fm/F;$$

In which Sf is the financial score, Fm is the lowest Financial Proposal, and F is the Financial Proposal (in INR) under consideration. Proposals will be finally be ranked in accordance with their combined technical (St) and financial (Sf) scores:

$$S = St \times Tw + Sf \times Fw;$$

Where S is the combined score, and Tw and Fw are weights assigned to Technical and Financial Proposal that will be 60:40 respectively.

The bidder with highest value of “St x Tw + Sf x Fw” will be the preferred bidder and will be invited for further proceeding for contract award and execution.

18.5 Preliminary Examination

All the necessary documents required for the bid submission should be strictly complied. No documents/papers that are found essential, as a part of tender submission/evaluation shall be accepted after the tender submission closing time. If any required document is missing as a part of bid submission, then that bid may be liable for rejection. The technical bid will be opened on the mentioned date in this tender Document at the authority’s Office. The bidder not submitting EMD shall be straight away rejected for further evaluation. The decision of the authority will be final in this regard.

18.6 Evaluation Methodology

The authority will evaluate and compare the Tender determined to be substantially responsive. The authority’s intent to select the bid which is most advantageous to Government of Gujarat and each bidder will be evaluated using the criteria and points outlined below. The total of essential qualifying evaluation criteria for the Bidder shall be considered for final selection of the bidder for qualifying for opening of the price/ financial bid.

18.7 Pre-qualification Criteria Scrutiny

The tender that does not confirm to meet any / partial / all the pre-qualification criteria mentioned in tender shall be straight away rejected. All eligible Tender will be considered for technical evaluation.

18.8 Evaluation of Technical Proposal

The technical proposal will be examined on the basis of responsiveness to the Evaluation Methodology, the Scope of work and other details as mentioned herein the document. Technical

evaluation marking statement of bidder is prepared based on the Evaluation Methodology & their submitted compliance to all the terms and conditions of the tender will be prepared.

18.9 Financial Bid Opening

At the completion of the evaluation process, the authority will open financial bid for technically qualifying selected agencies. The shortlisted agencies, who participated in tender, qualified in pre-qualifying criteria and secured above 60% Mark in evaluation criteria for tender.

18.10 Documents constituting the tender

The tender prepared by the bidder shall comprise of the following components. The Tender not conforming to the requirements shall be summarily rejected.

Technical tender shall contain minimum following documents: (as per pre-Qualification and Technical Qualification Criteria requirements)

1. Copy of EMD
2. Cover letter for bidding tender
3. Details of bidder
4. Copies of Audited financial statements as per pre-qualification criteria.
5. Copy of GST certificate
6. Relevant experience
7. Technical Solution document
8. Notarized Power of attorney for signing authority
9. Soft copy of technical tender documents in CD.

Any other documents necessary pertaining to eligibility / evaluation of the tender.

18.11 Undertaking

An undertaking from the bidder stating the compliance with all the terms & conditions of the tender Document will be required since no deviation will be acceptable to the authority.

19 Summary of Deliverables

19.1 Design & Development of Web & Mobile Applications

- System Requirements Specification (SRS)
- Customization of Applications
 - Mobile Application
 - Web Application
- CERT-in security certification
- User documentation
- Training
- For the customized solution developed for the project, IPR of the customized solution with editable rights including all the licence would belong exclusively to the authority
- All License copies (if any)
- All The data collected with functionalities of sharing through API/Excel *etc.* format for extension, research and education purpose.

19.2 Data processing service on the remote sensing applications

Reports

1. Crop acreage estimation
2. Crop yield modelling and production
3. Identification of pest and disease infestation
4. Monitoring of droughts
5. Flood mapping & monitoring

Additional Reports

1. Identification of planting & harvesting dates
2. Crop condition assessment & stress identification
3. Soil moisture estimation & irrigation monitoring

Advisories

1. Generalize Advisory
2. Sowing and harvesting time
3. Crop stress
4. Pest and disease infestation
5. Soil moisture stress and irrigation Application
6. On weather pattern

Annexure-1: Bidder Details

Description	Details to be filled by bidder
Name of the Organization	
Nature of the Organization Government / Public / Private / Partnership /Proprietorship	
Year of Establishment (Enclose any of the following for proof of establishment) <ul style="list-style-type: none">• Certificate of Incorporation• Audited balance sheets• Registered Partnership deed if any	
Regd. Office Postal Address with Phone & Fax Number	
Authorized person with contact details with email-id.	

In case of consortium:

1. The above information should be provided by all the members of consortium
2. A copy of the joint bidding agreement, to be submitted along with the application
3. Information regarding the role of each member should be provided as per below table:

Sr. No.	Name of member	Roles & responsibilities	Percentage of equity in the consortium

- In case any role/responsibility is not included in consortium than lead / selected bidder of consortium is responsible to set role/responsibility as per project requirement without any additional cost to owner.

Annexure-2: Relevant Project Experience

Relevant Project Experience	
Name of the project	
Client for which the project was executed	
Name and contact details of the client	
Description of the project with brief scope & size	
Total cost of the project (detailed breakup)	
Duration of the project	
Currently Operational (Yes/No)	
Mandatory Supporting Documents: <ul style="list-style-type: none">• Work order• Work completion certificate	

Annexure-3: Proposed Staff Details for this Project

Description	Details to be filled by bidder
Proposed position	
Name of Firm	
Name of employee	
Date of Birth	
Years of experience: <ul style="list-style-type: none">• Total• With firm/entity	
Qualification	
Key experience relevant to proposed position	
Overall experience-Years & Months	
Details of projects undertaken (Each project) <ol style="list-style-type: none">1. Project Name:2. Year:3. Location:4. Client(s):5. Main Project Features:6. Position Held:7. Activities Performed:	

Annexure-4: Letter Comprising the Bid

Dated:

To,

Director of Agriculture,
Krishi Bhavan, Sector 10 A,
Ch Road, Gandhinagar 382 010

Sub: RFP for “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies”

Dear Sir,

With reference to your RFP document dated, I/we, having examined the RFP document and understood its contents, hereby submit my/our Application for Qualification for the aforesaid project. The Application is unconditional and unqualified.

- I/ We acknowledge that the Authority will be relying on the information provided in the Application and the documents accompanying such Application for prequalification of the Applicants for the aforesaid project, and we certify that all information provided in the Application and in Annexes I to II is true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying such Application are true copies of their respective originals.
- This statement is made for the express purpose of qualifying as a Bidder for the establishment, operation and maintenance of the aforesaid Project.
- I/ We shall make available to the Authority any additional information it may find necessary or require to supplement or authenticate the Qualification statement.
- I/ We acknowledge the right of the Authority to reject our Application without assigning a reason or otherwise and hereby waive, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
- I/ We certify that in the last three years, we have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award, nor been expelled from any project or contract by any

public authority nor have had any contract terminated by any public authority for breach on our part.

- I/ We declare that:
 - I/ We have examined and have no reservations to the RFP document, including any Addendum issued by the Authority;
 - I/ We do not have any conflict of interest in accordance with the RFP document;
 - I/We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as defined in the RFP document, in respect of any tender or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State; and
 - I/ We hereby certify that we have taken steps to ensure that in conformity with the provisions of the RFP document, no person acting for us or on our behalf has engaged or will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.
- I/ We understand that you may cancel the Bidding Process at any time and that you are neither bound to accept any Application that you may receive nor to invite the Applicants to Bid for the Project, without incurring any liability to the Applicants, in accordance with the RFP document.
- I/ We believe that we satisfy(s) the financial criteria and meet(s) all the requirements as specified in the RFP document and are/ is qualified to submit a Bid.
- I/ We declare that we are not a Member of any other company who are applying for pre-qualification.
- I/ We certify that in regard to matters other than security and integrity of the country, we have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.
- I/ We further certify that in regard to matters relating to security and integrity of the country, we have not been charge-sheeted by any bidder of the Government or convicted by a Court of Law.
- I/ We further certify that no investigation by a regulatory authority is pending either against us or against our CEO or any of our directors/ managers/ employees.
- I/ We undertake that in case due to any change in facts or circumstances during the Bidding Process, we are attracted by the provisions of disqualification in terms of the provisions of this RFP; we shall intimate the Authority of the same immediately.

- The power of attorney for signing of application as per format provided at Appendix II of the RFP, are also enclosed.
- I/ We understand that the selected Bidder shall either be an existing Company incorporated under the Indian Companies Act, 1956, or shall incorporate as such prior to execution of the Contract Agreement.
- I/ We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority in connection with the selection of Applicants, selection of the Bidder, or in connection with the selection/ Bidding Process itself, in respect of the above mentioned Project and the terms and implementation thereof.
- I/ We agree and undertake to abide by all the terms and conditions of the RFP document.

In witness thereof, I/ we submit this application under and in accordance with the terms of the RFP document.

Yours faithfully,

Date: (Signature, name and designation of the Authorized Signatory)

Place: Name and seal of the Applicant

Annexure-5: Power of Attorney for Signing of Application

Know all men by these presents, we..... (name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms. (name), son/daughter/wife of and presently residing at, who is presently employed with us and holding the position of, as our true and lawful attorney (hereinafter referred to as the "Attorney") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our application for pre-qualification and submission of our bid for the ***** Project proposed or being developed by the ***** (the "Authority") including but not limited to signing and submission of all applications, bids and other documents and writings, participate in Pre-Applications and other conferences and providing information/ responses to the Authority, representing us in all matters before the Authority, signing and execution of all contracts including the Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the Authority in all matters in connection with or relating to or arising out of our bid for the said Project and/ or upon award thereof to us and/or till the entering into of the Agreement with the Authority.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, THE ABOVE NAMED PRINCIPAL HAS EXECUTED THIS POWER OF ATTORNEY
ON THIS DAY OF 2.... For

(Signature, name, designation and address)

Witnesses:

1.

2.

(Notarized)

Accepted

.....

(Signature)

(Name, Title and Address of the Attorney)

Notes:

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Wherever required, the Applicant should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/ power of attorney in favor of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Applicant.*

Annexure-6: Format for Anti-Collusion Certificate

We hereby certify and confirm that in the preparation and submission of our Proposal for the properties listed below, we have not acted in concert or in collusion with any other Bidder or other person(s) and also not done any act, deed or thing which is or could be regarded as anti- competitive. We further confirm that we have not offered nor will offer any illegal gratification in cash or kind to any person or bidder in connection with the instant Proposal.

Dated this Day of, 20__

.....

(Name of the Bidder¹)

.....

(Signature of the Authorized Person)

.....

(Name of the Authorized Person)

Note:

1. on the Letterhead of the Bidder

Annexure-7: Self Declaration – No Blacklisting

Date: dd/mm/yyyy

To,

Director of Agriculture,

Krishi Bhavan, Sector 10 A,

Ch Road, Gandhinagar 382 010

Sir/Madam,

In response to the Tender Ref. No., _____ dated _____ for “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies”, as an owner/ partner/ Director of _____, I/ We hereby declare that presently our Company/ firm _____ is having unblemished record and is not declared ineligible for corrupt and fraudulent practices either indefinitely or for a particular period of time by any State/ Central Government/ PSU. We further declare that presently our Company/ firm _____ is not blacklisted and not declared ineligible for reasons other than corrupt and fraudulent practices by any State/ Central Government/ PSU on the date of Bid Submission. If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

Thanking you,

Name of the Bidder:

Authorized Signatory:

Date:

Seal of the Organization:

Place:

Annexure-8: Pre-Qualification Cover Letter

Date: dd/mm/yyyy

To,

Director of Agriculture,

Krishi Bhavan, Sector 10 A,

Ch Road, Gandhinagar 382 010

Sub: Selection of Bidder for the Project “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies”

Ref: Tender No: _____ Dated _____

Dear Sir,

Having examined the tender, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the tender for the Appointment of Bidder for the Project “*Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies*”.

We attach hereto our responses to pre-qualification requirements and technical & financial proposals as required by the tender. We confirm that the information contained in these responses or any part thereof, including the exhibits, and other documents and instruments delivered or to be delivered to the authority, is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the department in its short-listing process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.

We agree for unconditional acceptance of all the terms and conditions set out in the tender document and also agree to abide by this tender response for a period of 90 days from the date fixed for bid

opening. We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed the tender.

We agree that you are not bound to accept any tender response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products/ services specified in the tender response.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Signature of Authorized Signatory (with official seal)

Name:

Designation:

Address:

Telephone &Fax:

E-mail address:

Annexure-9: Bidders Turnover over Last 3 Financial Years

Date: dd/mm/yyyy

To,

Director of Agriculture,

Krishi Bhavan, Sector 10 A,

Ch Road, Gandhinagar 382 010

Sir/Madam,

I have carefully gone through the Terms & Conditions contained in the tender Document for “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies”

I hereby declare that below are the details regarding Turnover of our company.

Financial Information			
	FY 2019-20	FY 2020-21	FY 2021-22
Revenue (in INR Crores)			
Net worth as on 31st March 2022 (in INR Crores)			
Mandatory Supporting Documents: (a) Audited Balance Sheets for the Last 3 financial years & CA Certificate for turn over			

Annexure-10: List of documents

Sr. No.	Eligibility Criteria Max Marks	Supporting document to be submitted	Compliance (YES/No)	Page No. in tender document
1				
2				
3				
Note: Only the documents provided on above mentioned page no. will be considered for evaluation. Any documents provide else were in the tender will not be considered.				

Annexure-11: Bank Guarantee Format

PROFORMA FOR BANK GUARANTEE FOR CONTRACT PERFORMANCE

Bank Guarantee No.....

Date:

To Dear Sir,

In consideration of the GoG, (hereinafter referred to as the 'Purchaser' which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assigns) having awarded to M/s with its Registered/Head Office at(hereinafter referred to as the 'Seller' which expression shall unless repugnant to the context or meaning thereof, includes its successors, administrators, executors & assigns) a Contract by issue of Purchaser's Purchase Order No..... dated and the same having been unequivocally accepted by the seller resulting in a 'Contract' valued at for(scope of work/contract) and the seller having agreed to provide a contract performance guarantee of the faithful performance of the entire contract equivalent to three percent (3%) of the said value of the contract to the purchaser.

We, (Name & Address of Bank) having our Head Office at (hereinafter referred to as the 'Bank' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors & assigns), do hereby guarantee and undertake to pay the Purchaser, on demand any and all monies payable by the Seller to the extent of as aforesaid at any time up to.... (*) without any demur, reservation contest, recourse, or protest and/or without any reference to the Seller. Any such demand made by the Purchaser on the Bank shall be conclusive and binding notwithstanding any difference between the Purchaser and Seller or any dispute pending before any court Tribunal, Arbitrator or any other Authority. The bank undertakes not to revoke this guarantee during its currency without previous consent of the purchaser and further agrees that this guarantee herein contained shall continue to be enforceable till the purchaser discharges this guarantee.

The Purchaser shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee, from time to time to extend the time for performance of Contract by the Seller. The Purchaser shall have the fullest liberty, without affecting this guarantee to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Seller, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce

any covenants, contained or implied in the contract between the Purchaser and the Seller or any other course of remedy or security available to the Purchaser. The Bank shall not be released of its obligations under these presents by any exercise by the Purchaser of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the purchaser or any other indulgence shown by the Purchaser or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

The Bank also agrees that the purchaser at its option shall be entitled to enforce this guarantee against the bank as a principal debtor, in the first instance without proceeding against the seller and notwithstanding any security or other guarantee that the purchaser may have in relation to the seller's liabilities.

Notwithstanding anything contained hereinabove our liability under this guarantee is restricted toand it shall remain in force up to and including (*) and shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s..... on whose behalf this guarantee has been given.

Dated this day of20.....at

WITNESS

SIGNATURE NAME

OFFICIAL ADDRESS BANK'S COMMON SEAL

Annexure-12: Minimum configurations for AOCC setup

12.1 Configuration for the Video Wall Screen

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks
1	Screen Size	55'' ± 1 or higher (4 * 4 matrix)		
2	Lifetime of Light Source	Minimum 1,00,000 hrs. in eco mode		
3	Resolution	1920 x 1080 Full high definition (1080p) 16:9 Widescreen or 16:10		
4	Power Supply	Dual /redundant power supply		
5	Screen to Screen Gap	≤ 1 mm at all temperature / humidity conditions		
6	Input	HDMI and other inputs as per Video Wall solution offered		
7	Control	- On Screen Display (OSD) - IR remote control (Desirable)		
8	Operations	24 x 7		

12.2 Video Wall Controller (From the same OEM of video wall)

#	Parameters	Minimum Requirements	Compliance (Yes/No)	Remarks, if any
1	Features	Supports output up to 1920 * 1200 resolution with 60fps		
		Supports H.264/H.265 decoding immediately		
		Supports up to 64 windows per display		
		Supports Multicasting Windows		
2	Output	HDMI 1.3, Channel -1, Color depth 8/10 bit		
3	Image processing	High tap filter for image scaling		
		Accurate synchronization for display wall		
		Support H.264/H.265/MPEG4 decoding		
		Up to 64 free window per display		
		Window title with vector texts		
		Bezel-compensation and overlap		
4	MTBF	more than 100,000 hours		

12.3 Video Wall Management Software

#	Functionality	Compliance (Yes/No)	Remarks, if any
1	Ability to pre-configure and store various display layouts and access them at any time with a simple mouse click.		
2	Ability to display multiple sources anywhere on video wall in any size.		
3	Ability to configure display layouts in real time without reboot.		

4	Ability to create the display layout in background without interrupting the live display.			
5	Ability to create and store different profiles defining one or more source and size for different scenarios.			
6	Application must be GUI based with easy to use and configure interface.			
7	Ability to control the Wall Monitoring System through remote PC connected by LAN			
8	Ability to share the layouts over LAN/WAN Network with display in Meeting room or on Remote Workstations connected on LAN/WAN Network			
9	Ability to display the screen content of the desktop / workstation connected with the Display Controller on the Display wall.			
10	The wall management software should support open APIs/ Command list/ RS232 command to enable system integrators to integrate it with their Software or other 3 rd party devices to control the system.			
11	Ability to centrally manage configuration parameters.			
12	Ability to schedule backup and restore the configuration parameters.			
13	Ability to Drag and Drop of sources.			
14	Ability to create event log of user access with time stamp.			
15	Role based user creation and management.			
12.4 Configuration for the Work Stations				
#	Parameters	Minimum Requirements	Compliance (Yes/No)	Remarks, if any
1	Form Factor	Tower		
2	Processor	Intel® 11th generation Core™ i7- 10700 Processor (2.90 GHz Base Frequency/Clock Speed, 16M Cache, 8 core) or higher		
3	Chipset	Intel Q470 chipset or better		
4	Motherboard	OEM Motherboard		
5	RAM	16 GB DDR4 RAM @ 2933 MHz or higher with single DIMM, Minimum 2 DIMM slots and Shall be expendable to 64 GB		
6	Graphics card	Graphics card with 4 GB memory		
7	HDD	Minimum 2 TB SATA III Hard Disk @7200 RPM or higher (should have provision for attachment of additional 3.5” SATA III HDD)		

Note- The filled Annexure-12 should be part of technical documents and necessary document reference should be provided. The bidder must provide enterprise standard products as part of solution.

Annexure-13: Manufacturers' Authorization Form

Date:

To,

Subject: Manufactures Authorization Form

Ref: Tender Reference No.:

Tender ID:

Dear Sir,

We, _____, (Name of the OEM) who are established and reputable manufacturers of (List of goods & services) having product development centres at the locations _____, do hereby authorize **(Name and address of the bidder)** to bid, negotiate and conclude the contract with you against Tender Reference No. : _____ for the "Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies".

We hereby extend, our warranty for the goods & services /products supplied by the bidder and or maintenance or support services for software products and services against this invitation for bid by **(Name of Bidder)** as per requirements and for the duration of contract as specified in this RFP.

We hereby declare that by virtue of providing this MAF; we will be severally liable for all the scope items supplied by us for the entire tenure of the contract.

We also confirm that our offered product will not be end of life for minimum of 6 months from the date of bid submission and the support for such offered product/s will be available for minimum of 5 years from the date of award of contract.

Thanking you,

Yours faithfully,

(Signature)

For and on behalf of: (Name of the OEM)

Authorized Signatory

Place:

Name:

Date:

Designation:

Annexure-14: Consortium Agreement

This Consortium Agreement executed on this..... Day of..... between M/s....., a company incorporated under the law of ---- and having its registered/principal office at (herein after called the 'Partner-I'/'Lead Partner' which expression shall include its successors, executors and permitted assigns)

and M/s....., a company incorporated under the laws of ----- and having its registered/ principal office at (herein after called the 'Partner – II'/'Second Partner' which expression shall include its successors, executors and permitted assigns), for the purposes of submission of a bid and entering into a contract in case of award for the work of (Name of work).....for (name of the project) of M/s..... (herein after called the 'Owner').

WHEREAS as per the tender, Consortium bids will also be considered by the Owner provided they meet the specific requirements in that regard.

AND WHEREAS the bid is being submitted to the Owner vide proposal dated based on the Consortium Agreement being these presents and the bid with its forms and submission documents, in accordance with the requirement of document conditions and requirements have been signed by all the partners and submitted to the Owner.

NOW THIS INDENTURE WITNESSETH AS UNDER:

In consideration of the above premises and agreements all the partners to this Consortium do hereby now agree as follows:

1. We the partners in the Consortium hereby confirm that the name and style of the Consortium shall be..... Consortium.
2. In consideration of the bid submission by us to the Owner, submission of main bid by us and the award of contract by the Owner to the Consortium (if selected by the Owner), we the partners to the Consortium, hereby agree that the Partner – I (M/s.....) shall act as the lead partner for self, and for and on behalf of Partner – II and further declare and confirm that we shall jointly and severally be bound unto the Owner for execution of the contract in accordance with the contract terms and shall jointly and severally be liable to the Owner to perform all contractual obligations including technical guarantees. Further, the Lead Partner

is authorized to incur liabilities and receive instructions for and on behalf of any or all partners of the CONSORTIUM.

3. The roles and responsibilities of the member of consortium are mentioned in Annexure-1
4. In case of any breach of the said Contract by any of the partners of the CONSORTIUM, we hereby agree to be fully responsible for the successful execution/ performance of the Contract in accordance with the terms of the Contract.
5. Further, if the Owner suffered any loss or damage on account of any breach of the Contract or any shortfall in the completed equipment / plant, meeting the guaranteed performance parameters as per the technical specifications / contract documents, the Lead Partner and Second Partner of these presents undertake to promptly make good such loss or damage caused to the Owner, on the Owner's demand without any demure. The Owner shall have the right to proceed against anyone of the partners and it shall neither be necessary nor obligatory on the part of the Owner to proceed against the Lead Partner to these presents before proceeding against the Second Partner.
6. The financial liability of the partners to this Consortium Agreement, to the Owner with respect to the any or all claims arising out of the performance or non-performance of the Contract shall, however be not limited in any way so as to restrict or limit the liabilities of either of the partner.
7. It is expressly understood and agreed between the partners to this agreement that the responsibilities and obligations of each of the partners shall be as delineated in line with past experience of members and the lead Partner shall be responsible for the Project Management to this agreement. It is further agreed by the partners that the above sharing of responsibilities and obligations shall not in any way be a limitation of the joint and several responsibilities of the partners under the Contract.
8. This Consortium Agreement shall be governed, construed and interpreted in accordance with Laws of India.
9. In case of award of contract, we the partners to this Consortium Agreement do hereby agree that we shall furnish the contract performance guarantee in favor of the Owner from a bank acceptable/ approved by the Owner for a value as stipulated in the Contract Award and such guarantee shall be in the names of all the partner of the Consortium.
10. It is further agreed that this CONSORTIUM Agreement shall be irrevocable and shall form an integral part of the Contract and shall continue to be enforceable till the Owner discharges the same. It shall be effective on the date first above mentioned for all purposes and intents.

IN WITNESS WHEREOF, the partners to this Consortium agreement have, through their respective authorized representatives, have executed these presents and affixed their hands and common seal of their respective companies on the day, month and year first abovementioned.

For M/s. (..... Partner-I)

1. Common Seal of

.....

M/s.

(Signature of authorized Representative)

has been affixed in my/ our presence

pursuant to Board Resolution dated

Name:

Signature.....

Designation:

Designation

For M/s. (..... Partner-II)

2. Common Seal of

.....

M/s.

(Signature of authorized Representative)

has been affixed in my/ our presence

pursuant to Board Resolution dated

Name:

Signature.....

Designation:

Designation

Annexure-15 Power of Attorney for Lead Member of Consortium

Whereas the (the “Authority”) has invited proposals dated , Tender No. for..... (“Tender Name”).

Whereas, & (collectively the “Consortium”) being Members of the Consortium are interested in bidding for the Tender in accordance with the terms and conditions of the Request for Proposal and other connected documents in respect of the Tender, and

Whereas, it is necessary for the Member of the Consortium to designate the lead member as the Member in Charge with all necessary power and authority to do for and on behalf of the Consortium, all acts, deeds and things as may be necessary in connection with the Consortium’s bid for the Tender and its execution.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS

We, (Name of the company) do hereby irrevocably designate, nominate, constitute, and appoint (Name of the company), (Address) being the lead Member of the Consortium, as the Member in Charge and true and lawful attorney of the Consortium (hereinafter referred to as the “Attorney”) and hereby irrevocably authorise the Attorney (with power to sub- delegate to any person) to conduct all business for and on behalf of the Consortium and any one of us during the bidding process and, in the event the Consortium is awarded the Contract, during the performance of the services related to the Tender, and in this regard, to do on our behalf and on behalf of the Consortium, all or any of such acts, deeds or things as are necessary or required or incidental to the submission of its bid for the Tender, including but not limited to signing and submission of all applications, bids and other documents and writings, accept the Letter of Acceptance, participate in bidders’ and other conferences, respond to queries, submit information/documents, sign and execute contracts and undertakings consequent to acceptance of the bid of the Consortium and generally to represent the Consortium in all its dealings with the Authority, and/ or any other government agency or any person, in all matters in connection with or relating to or arising out of the Consortium’s bid for the Tender and/ or upon award thereof till the Contract is entered into with the Authority.

AND hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred

by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us/ Consortium.

IN WITNESS WHEREOF WE THE PRINCIPALS ABOVE NAMED HAVE EXECUTED THIS

POWER OF ATTORNEY ON THIS DAY OF, 2023.

Signature:

Name:

Authorized Signatory

Witnesses:

1.

2.

Annexure 16 Bill of Quantity	
Project:	Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State using Remote Sensing, GIS and other Technologies
Name of the Bidder:	

Sr. No.	Line Item	Total Rates (Inclusive of Tax)
1	Reports Submission	
2	Web & Mobile Application Customization and Configuration 1. Development and customization of Web Platform 2. Development of Mobile Applications for IOS and Android (Single Codebase)	
3	Agriculture Operations & Command Centre (AOCC) setup	
Grand Total (A+B+C) for 5 Years		
Grand Total for 5 years (in words):		

1) Reports Submission														
					OPEX									
						Cost of Year 1		Cost of Year 2		Cost of Year 3		Cost of Year 4		Cost of Year 5
Sr. No.	Operations	Qty.	Unit	Tax Rate (%)	Estimated Area	Unit Rates	Amount	Unit Rates	Amount	Unit Rates	Amount	Unit Rates	Amount	Unit Rates
Kharif Season														
1	Crop acreage estimation – Preliminary report	1	Per ha		87,00,000									
2	Crop acreage estimation - Final	1	Per ha		87,00,000									
3	Crop yield modelling and production – Preliminary report	1	Per ha		87,00,000									
4	Crop yield modelling and production - Final	1	Per ha		87,00,000									
5	Advisories for the Kharif season (15 Advisories)	15	Per advisory											
Rabi Season														
6	Crop acreage estimation – Preliminary report	1	Per ha		30,00,000									

7	Crop acreage estimation - Final	1	Per ha		30,00,000									
8	Crop yield modelling and production – Preliminary report	1	Per ha		30,00,000									
9	Crop yield modelling and production - Final	1	Per ha		30,00,000									
10	Advisories for the Rabi season (15 Advisories)	15	Per advisory											
Summer Season														
11	Crop acreage estimation – Preliminary report	1	Per ha		12,00,000									
12	Crop acreage estimation - Final	1	Per ha		12,00,000									
13	Crop yield modelling and production – Preliminary report	1	Per ha		12,00,000									
14	Crop yield modelling and production - Final	1	Per ha		12,00,000									
15	Advisories for the Summer	15	Per advisory											

	season (15 Advisories)													
Event occurrence														
16	Reports to be submitted on the event occurrence	1	Per ha		10,00,000									
Grand Total - A														
Grand Total - A (in words)														

2) Web & Mobile Applications Customization and Configuration														
				CAPEX	OPEX									
			Tax Rate (%)	SITC	Cost of Year 1		Cost of Year 2		Cost of Year 3		Cost of Year 4		Cost of Year 5	
Sr. No.	Operations	Qty.		Amount	Unit Rates	Amount	Unit Rates	Amount	Unit Rates	Amount	Unit Rates	Amount	Unit Rates	Amount
1	IT Infrastructure	Total												
1.1	Suggested item 1 as per solution													
1.2	Suggested item 2 as per solution													
1.3	Suggested item n as per solution													
2	Data procurement and integration	Total												
3	Licenses	Total												
3.1	Suggested Licenses 1 as per solution													
3.2	Suggested Licenses 2 as per solution													
4	Development & customization cost of mobile applications (IOS and Android)	Total												

5	Development & customization cost of web platform													
6	Training to the stakeholders & farmers	Total												
7	Security Testing	Total												
Grand Total - B														
Grand Total - B (in words)														

3) Agriculture Operations & Command Centre (AOCC) Setup														
			CAPEX		OPEX									
			Tax Rate (%)	SITC	Cost of Year 1		Cost of Year 2		Cost of Year 3		Cost of Year 4		Cost of Year 5	
Sr. No.	Operations	Qty.		Amount	Unit Rates	Amount	Unit Rates	Amount	Unit Rates	Amount	Unit Rates	Amount	Unit Rates	Amount
1	IT Infrastructure	Total												
1.1	Workstations	21												
1.2	Multi-Function Printer (Heavy Duty) color	1												
1.3	Desktop	2												
1.4	Color Laser Printer	2												
1.5	Indoor Wifi Access Points	5												
1.6	Video Wall - screen	1												
1.7	Network based Video Wall Controller	1												
1.8	Video Wall Monitoring Software	1												
1.9	Managed Switch	1												
1.10	NVR based cameras	4												
1.11	Fire Panels	1												
1.12	Video Screens	2												
1.13	Projector	1												

1.14	Video conference solution license with 250 concurrent users	1												
2	Non IT Infrastructure	Total												
2.1	Furniture, Cooling, Electrical and Networking Cabling (Quantity based on number of personnel occupying the room) - Control Room	1												
2.2	Furniture, Cooling, Electrical and Networking Cabling (Quantity based on number of personnel occupying the room) - Conference Room	1												
2.3	Furniture, Cooling, Electrical and Networking Cabling (Quantity	1												

	based on number of personnel occupying the room – include 4 visitors) - Manager Room													
3	Manpower cost	Total												
3.1	Project Manager/ IT Staff	1												
3.2	Remote Sensing	3												
3.3	Agriculture Expert	7												
3.4	Data Scientist	2												
3.5	Support Staff	5												
3.6	MPLS bandwidth as per solution requirement and required infrastructure	1												
Grand Total - C														
Grand Total - C (in words)														

Prebid Queries for “Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State Using Remote Sensing, GIS and Other Technologies” GEM Bid No.: GEM/2023/B/3942765 dated 14.09.2023 Tender Notice No: Ecostat/Forecast/RS/3/2023

Sr. No.	Tender Document Reference	Content of the tender requiring Clarification	Clarification Sought	Tenderer Reponse
1	Deployment of the Application; pg. 55	The cloud service provided should be MeitY empanelled	<p>Apart from the cloud service being MEITY empanelled, we request that the department ensure key cloud security services are provisioned to protect Agriculture workloads from security risks in order to ensure well-architected security architecture in the cloud --</p> <p>Bidder shall provision native security service provided by CSP but not limited to -</p> <ol style="list-style-type: none"> 1. Identity & access management and Single Sign on Service for Cloud 2. Centralize Governance and Compliance Management, Detection Control of Gujarat Agri workloads 3. AI Powered Threat Detection Service 4. Unified Security and Compliance Dashboard and Vulnerability Assessment 5. Record and Evaluate Configuration and Track API and User Activity 6. Network Firewall with IPS capability 7. Web Application Firewall and DDoS protection 8. Central Management of Firewall Rules 9. Sensitive Data Discovery and Protection 10. Encryption Key storage and Key Management (FIPS compliant) 11. Central Store to Encrypt, Rotate, manage, and retrieve secrets 12. Incidence response 13. Potential Security Threat Investigating Control 	As per RFP; During the project tenure the CSP must be empanelled with MietY.
2	Deployment of the Application, pg 55	The cloud service provided should be MeitY empanelled	Request you to please add the below clause -- key points for CSP eligibility: CSP shall have published on its public facing website- cloud services’ rates for India, Service Level Agreements (SLAs), dashboard live-status of cloud services’ health across global datacentre and outage details (if any) with RCA and should be able to offer Market Place solutions with first and 3rd party products and services to be used as services on their cloud platform	As per RFP; During the project tenure the CSP must be empanelled with MietY.

3	17.2 Web Portal, pg. 51	Development of the application is suggested / preferred in Open Source Technology	<p>As the department has already suggested open source technology should be considered, request the department to add the below functionalities ---</p> <p>CSP have their own native managed databases (PAAS) service with features of inbuilt scaling, HA, and backup for the following databases:</p> <ul style="list-style-type: none"> o MySQL o PostgreSQL o MariaDB o MS SQL Server o Oracle <p>• Support synchronous replication and automatic failover of a primary database to a standby database copy in a separate physical data centre to improve data redundancy</p>	AS per RFP; However the proposed technology/framework should not be EOS/L during the project tenure.
4	Deployment of the Application, pg. 55	The cloud service provided should be MeitY empanelled	<p>As there will be a lot of processing requirements, bidders should have an multiple compute options available from cloud service provider. Below are some key cost optimisation considerations regarding compute in the cloud. Request the department to add the below functionalities ---</p> <p>- The proposed solution should be compatible with the CSP provided compute services on Intel, AMD and ARM technology in India for selecting right technology for cost optimization</p>	As per RFP
5	Deployment of the Application, pg. 55	The selected bidder should deploy the successfully tested application on the cloud/DST	For clarity purpose please amend the clause to "The selected bidder should deploy the successfully tested application on the MEITY empanelled Cloud Service Provider (CSP).	As per RFP; However, the selected bidder should deploy the successfully tested and verified by tenderer application on the MEITY empanelled Cloud Service Provider (CSP)/DST.
6	Penalty Clause related points: Page 26, Point 9.2	9) Security Deposit 9.2) Delay and Non-Performance	In case of implementation schedule is not met, they may cancel the order and go to other vendor and successful bidder need to pay the difference in amount (no ceiling mentioned)	As per RFP
7	Penalty Clause related points: Page 27, Point 9.5	9.5) Limitation of Liability towards the authority	Loss or damage occurred or caused on account of defect in goods & services, liability is limited to project cost	As per RFP
8	Penalty Clause related points: Page No 35, Note No 4:	If the cumulative penalty under SLA exceeds 3% of contract value then the selected bidder's security deposit will be forfeited, the selected bidder may be blacklisted by the authority and Risk Purchase Clause will be applicable	If the cumulative penalty exceeds 3%, they may invoke Risk Purchase clause, cancel the order, Security deposit will be forfeited and go to other vendor.	If the cumulative penalty under SLA exceeds 10% 3% of contract value then the selected bidder's security deposit will be forfeited, the selected bidder may be blacklisted by the authority and Risk Purchase Clause will be
9	Payment Terms 1. Page 34, Point 11-C,	11) Terms of Payment. c) Proposed Time line for the Application & Command & Control Centre Setup	Payment terms – looks like copy and paste error in terms of % of capex.	As per RFP
10	6. Advisory, Page 49 of 99	Mobile application	How many farmers is expected to use the mobile application ?	50 lacs farmers

11	6.2 Gujarat State(Page-12)	Total geographical area of the state is about 196 lakhs hectares. Out of total geographical area, 105 lakh hectares are under net cultivable area which is 53% of total geographical area. Total gross cropped area is about 147 lakh hectares in the state.	What is difference between net cultivable area and total gross cropped area.	Net are Sown/Cultivation: This represent the total Area sown with crops and orchards. Area sown more than once in same yearis counted only once. (Average sowing area in single season) Total Gross Crop Area: This represents the total area sown once and /or more than once in a perticular year, i.e. the area is counted as many times as there are sowing in a year.
12	Point 16.1, 2) Field Survey Page 42 of 99	The field surveys should be conducted well distributed according to crop area and crop type in different parts of the study area to gather primary as well as secondary information about the crop from the field.	What is approximate number of surveys need to be done by field officers?	As per RFP
13	Point 16.1, 3) C)Page 44 of 99	Bidder should integrate crop yield prediction.The selected bidder should develop crop yield models	Who will provide necessary data for the model creation?	AS per RFP; The authority may provide the available historical yield and production data to the selected bidder. Bidder is responsible to collect other necessary data.
14	Point 17.5, d) Page 61 of 99	Training & Handholding	What are the Envisaged number of people who need to be trained	Please refer Training & Handholding
15	Section 16.1 (3A), page 38	Crop Identification	Can we do the crop detection incrementaly, say in iteration 1 only the major crops & in iteration 2 both major and minor crops ?	As per RFP
16	Section 11 (a), page 28	Payment Terms based on report submission	The 65% & 70% accuracy mentioned is considering all the crops or there is minimum accuracy requirement of individual crops too ?	As per RFP
17	Section 16.1 (5), page 40	Crop loss assessment	Can we get the list of disease & pest to be covered for analysis ?	As per RFP
18	Section 16.1 (3A), page 37	Satellite Image Procurement	As advised we have to procure atleast 3 dates satellite data but scope of work suggested to provide the satellite based agricultural services which needs continuous satellite feed throughout the crop cycle rather than 3 dates	As per RFP
19	Page 39	Crop yield determination	Please provide village level georefrenced boundary to analysed the village level data	It will be finalised with selected bidder.
20	Page 39	Crop yield determination	What will be the resolution of the weather data grid	As per RFP
21	Page 40	Weather Pattern	What will be the resolution of the weather data grid	As per RFP
22	Page 41	Advisory	How many farmers will be registered in one block to provide the sms based advisories	As per RFP and requirement of department
23	Page 42	Advisory	Advisories should be in local language or in English or both in local and english language	As per RFP
24	Page 43	Advisories on soil moisture stress and Irrigation Application	Will Bidder provide the soil moisture at pixel level by using satellite and other ancillary data and then compile at village level	As per RFP
25	Page 34	Penalty	Please provide the criteria or process flow for QC analysis, at which penalty will impose	Details will be shared to slected bidder
26	Page 48	Human Resource (l. Project Manager/ IT Staff – 1 [M.Sc.(IT)/ M.B.A. (IT)/ M.C.A.])	Request you to change the criteria from M.Sc/MBA/MCA/Ph.D. in IT/Agriculture/Life Sciences	As per RFP

27	Section 18.1 Pre-Qualification Criteria	The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22)	Requesting to reduce it to 25cr	As per RFP
28	Section 18.1 Pre-Qualification Criteria	The Sole Bidder/Lead bidder and all the consortium members should have positive net worth as on 31st March 2022.	This should be exempted, as tech companies with start-up tag generally don't have positive networth. I think the kind of funding we have raised and list of investors we have on board should be considered and this clause should be optional and not pre-qualification criteria.	As per RFP
29	Section 18.1 Pre-Qualification Criteria	The bidder must have experience in successful execution of similar projects in India during last five years from the date of bid submission. With value listed below.	Request you to change the criteria from Work Order or Completion Certificate from the client	As per RFP; however completion certificate and satisfactory report to be submitted by bidder
30	Section 18.1 Pre-Qualification Criteria	The Sole Bidder/Lead bidder and all the consortium members must have minimum experience of five(5) years from the bid submission date in India with either State or Central Government.	Request you to change the criteria from Work Order or Completion Certificate from the client	As per RFP
31	Database Management (DST) Page No. 40	For on-going data analysis during the season data processing shall be done on cloud servers by the selected bidder. And after the completion of each season/ year (whichever is feasible) all the generated data shall be deployed / stored at Gujarat State Data Centre (GSDC) server along with security certificate and credentials	Please clarify whether the System at GSDC will be provided by the bidder to store the data and archive it after 180 days or will be leveraging the existing storage/ archival system.	As per RFP; required infrastructure to store generated data will be provided at GSDC
32	16.2 Command and Control Unit Page No. 49	The bidder will make arrangement for Online UPS (with 30 Min. backup) & DG set at AOCC for power down time of at least 8 hours	Please suggest, if the bidder will be responsible for the Fuel supply for the DG Set	Fuel cost will be reimbursed
33	12.4 Configuration for the Work Stations Page No. 84	Workstation configuration details	Please clarify on the OS and MS Office requirements, if any	YES
34	Service Level Agreement (SLA): Page No. 34	1. Service Level – Implementation period SLA	<p>SLA penalties are too high, as high as Rs. 1 lakh per week.- We request department to kindly reduce the penalty as below:-</p> <p>Sr. No. Service level description Penalty</p> <p>1 Delay in milestone delivery Rs. 15,000 per week</p> <p>2 Delay in report submission Rs. 15,000 per week per report</p> <p>3 Delay in advisories Rs. 5,000 per week per advisory</p> <p>4 Delay in manpower deployment at AOCC and break in service continuity Rs. 5000 per week.</p> <p>This will help in getting more participation and better commercials for the project.</p>	RFP Condition prevail

35	Service Level Agreement (SLA): Page No. 34	Additional Clause to be added	<p>We request department to add maximum penalty clause in the rfp which is not present as of now. Kindly add the below clause in the rfp:- Maximum cumulative penalty under SLA will be capped at 10% of the O&M cost.</p> <p>This is the standard clause which comes in all the Govt rfps. Penalty cannot be kept open in Govt. rfps.It needs to be capped. Kindly consider our request.</p>	RFP Condition prevail
36	2. Service level agreement for O&M phase Page No. 35	The manpower shall be entitled for twelve days of leaves per year	<p>As leave policy differs from one company to other, we request department to change the clause as below:-</p> <p>The number of leaves to the resources will be governed by Company standard policy. However min leaves to be given to the resources should not be less than 12 days.</p>	The leave policy may be applicable by selected agency/bidder company however the manpower availability must be ensured for Project tenure without any exception.
37	2. Service level agreement for O&M phase Page No. 35	In case of attrition, the bidder has to propose replacement of absconding/resigned manpower within one week	<p>We request department to provide atleast 6 weeks time for the replacement of resources as the min notice period for any resource is 30 days.</p> <p>This is the standard clause which comes in all Govt. rfps.</p>	RFP Condition prevail
38	9.10 Termination of Contract Page No. 30	As per RFP	We request department to kindly include termination rights for the Bidder also against long payment delay.	RFP Condition prevail
39	<p>Sub-Section - c) Proposed Time line for the Application & Command & Control Centre Setup</p> <p>of</p> <p>Section - 11 Terms of Payment Page No. 34</p>	<p>Proposed Time line for the Application & Command & Control Centre Setup</p> <p>☑ SRS for the Mobile Application – T + 2 month – 10% of CAPEX</p> <p>☑ Mobile Application Development & Deployment – T + 3 months – 20% of CAPEX</p> <p>☑ Command and Control Centre Setup – T + 2 months – 65% of CAPEX (BOQ line item No. 3, Sr.No.1-2)</p> <p>☑ SRS for the Web application - T + cv3 months – 25% of CAPEX</p> <p>☑ Platform Customization & UAT – T + 4 months - 30% of CAPEX</p> <p>☑ Go-Live of the application – T + 5 months - 15% of CAPEX</p> <p>☑ Operations & Maintenance – T + 5 onward – Quarterly from OPEX</p>	<p>Request for further elaboration for given CAPEX Payout % with detailed example to explain 100% CAPEX Payout of following milestone along with Proposed Timeline.</p> <p>1- Web & Mobile Application Customization and Configuration</p> <p>2- Agriculture Operations & Command Centre (AOCC) setup</p>	Please see corrigendum
40	Sub-Sectionb Interior work for the Control room of Section : 16.2 Command and Control Unit Page No. 54	7. The authority will be responsible for application of permissions of power line and water supply. Electrical and water charges will be borne by the authority. The bidder will make arrangement for Online UPS (with 30 Min. backup) & DG set at AOCC for power down time of at least 8 hours	Please clarify the responsibility of DG Set Fuel	Fuel cost will be reimbursed

41	Operations and Maintenance (O&M) Page No. 57	Operations and Maintenance (O&M) The selected bidder should submit a plan for operations and maintenance services for applications delivered to the authority. The O&M period would start from the date of Go-live and the period of O&M would be for 4 years. The selected bidder has to carry out following activities during O&M period:	Please clarify the O&M Period is 4 Year or 4 Years and 7 monthn from the Go-live as per RFP Given Schedue	Operations and Maintenance (O&M) The selected bidder should submit a plan for operations and maintenance services for applications delivered to the authority. The O&M period would start from the date of Go-live and the period of O&M would be for 5 4 years. The selected bidder has to carry out following activities during O&M period:
42	Training & Handholding Page No. 56	The selected bidder should carry out the trainings for the department officials and for the farmers. The training will be conducted at the department's training facilities / camp / conferences etc. where the selected bidder needs to provide resource persons and required training material.	Please Clarify that bidder to submit/provide soft copy under Training Materials	Bidder has to provide in Soft Copy and Hard Copy
43	12 Bill of Quantity (BoQ) Page No. 32	Overall project duration is 5 years from the contract signing date. Implementation period is 5 months from the contract signing date, the remaining 7 months' time period will be considered as a warranty period of deployed mobile and web applications. Operations & Maintenance (O&M) period is for 4 years post warranty period. Reports are expected to be generated over a course of 5 years from the contract signing date	Please Calrify that Report Submisison Stage will start post Go-Live of the desired System. As per Clause it is from the date of Contract Signing. Is there any Legacy which Bidder to manage from day ?	Reports to be start submitting 30 days after contract date to DAG
44	9.5 Limitation of Liability towards the authority Page No. 27	As per RFP	Kindly exclude indirect losses from the liability mentioned in the clause.	As per RFP
45		5 oct 2023 - tner Submission date	Extension of tender submission, very short notice for companies to form Consortium	As per RFP
46	Page 37	16.1 - Satellite imagery " The department will facilitate the selected bidder to procure the satellite image by issuing a letter to NRSC if required"	InSpace is also the agency for data approvals, department may kindly facilitate	As per RFP
47	Page 37	4 Spectral bands	"RedEdge " is crucial for Agriculture, may kindly be included as 8 bands	As per RFP
48	Page 62	POC Note	Is this a free POC or Paid POC?	All expenses to be borne by bidder.
49	Annex 16 - BOQ	3 seasons - Different Estimated Areas	Is this the cumulative total Areas that the Vendor should have? As total crop	It seasonwise average cultivation area

50	General Terms and Conditions on GeM 4.0 (Version 1.12) dt 16th August 2023	Sellers / Service Provider having annual turnover of INR 500 Crore or more, at least in one of the past three completed financial year(s)	Kindly clarify if the bidders with turnover more than 500 crores will be exempt from submission of EMD of INR 60000000	As per RFP
51	Security Deposit	An amount equal to 10 % of the total contract value is to be furnished as security deposit by way of bank guarantee.	Request to kindly consider reducing the security deposit to 3%	As per RFP
52	Technical Evaluation Criteria Resource proposed on project	Project Manager: Agriculture Domain Knowledge	Request to kindly consider the Agriculture domain knowledge or experience in handling large IT projects	As per RFP
53	Technical Evaluation Criteria Resource proposed on project	2) Remote Sensing Scientist- 1: 2 Marks (At least working with the bidder for minimum of last 2 years) *Educational Qualification: M.Sc. /M. Tech/ M.E. or equivalent & Ph.D. *Work Experience in the field of Satellite Remote Sensing applications in Agriculture: 15 Years *Credentials: Minimum 10 Scientific Paper Publications in the domain of Agriculture and Remote Sensing	Request you to kindly consider such resource working in Parent/Group Company/OEM/Consortium Partner. Request to kindly remove the clause for credentials for Minimum 10 scientific paper as this may restrict good and experienced resource to be onboarded for such prestigious project	As per RFP
54	Technical Evaluation Criteria Resource proposed on project	3) Agriculture Scientist – 1: 2 Marks (At least working with the bidder for minimum of last 2 years) * Educational Qualification: M.Sc. /M. Tech or equivalent & Ph.D. in Agriculture * Years of Experience: > 15 Years * Credentials: Minimum 10 Paper Publications in the domain of Agriculture	Request you to kindly consider such resource working in Parent/Group Company/OEM/Consortium Partner. Request to kindly remove the clause for credentials for Minimum 10 paper publication as this may restrict good and experienced resource to be onboarded for such prestigious project	RFP Condition prevail
55	Technical Evaluation Criteria Resource proposed on project	5) Technical Manpower – 10: 2 marks (At least working with the bidder for minimum of last 2 years) □ Educational Qualification: M.Sc./M. Tech in GIS/Remote Sensing/ Geospatial Technology or Equivalent Years of Experience: >5 Years	Request to kindly consider educational qualification as B.SC./B.tech for Technical Manpower	RFP Condition prevail

56	18.1 Pre- Qualification Criteria, Sr No. 7	<p>The bidder must have experience in successful execution of similar projects in India during last five years from the date of bid submission. With value listed below.</p> <p>1) One project of similar nature with the value of at least 40 crore or</p> <p>2) Two projects of similar nature with the value of at least 25 crore or</p> <p>3) Three projects of similar nature with the value of at least 20 crore</p> <p>Documents Required: Work Order and Completion Certificate from the client</p>	<p>In order to attract wider competition with technical capabilities on the domain, we request you to kindly amend the criteria for:</p> <p>1. Similar Projects can be extended to Agriculture allied domain like Water Resources, Irrigation where satellite data, crop mapping, crop identification have been included.</p> <p>2. Documents required: Work order and 60% completion certificate from client</p>	<p>1. similar projects and experience as per RFP conditions 2. Work Order and Satisfactory Completion Certificate from the client</p>																
57	18.1 Pre- Qualification Criteria, Sr No. 2	<p>The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).</p>	<p>We request you to kindly relax the minimum turnover required to be 50 Crores as against 150 Crores.</p> <p>We assume that the required turnover is from any sector. Please confirm.</p>	<p>As per RFP</p>																
58	18.2 Technical Qualification Criteria, Sr No. 1	<p>The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crore in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).</p> <p>Turnover: -</p> <p>1. >=150 &< 200 Cr 5 Marks</p> <p>2. >=200 and <250 Cr 7.5 Marks</p> <p>3. >= 250 Cr 10 Marks</p>	<p>In order to allow technically competent and qualified bidders participate in the tender, we kindly request you to amend the criteria as:</p> <p>1. >=50 &< 75 Cr 5 Marks</p> <p>2. >=75 and <100 Cr 7.5 Marks</p> <p>3. >= 100 Cr 10 Marks</p>	<p>As per RFP</p>																
59	18.2 Technical Qualification Criteria, Sr No. 4	<p>Sole Bidder/Lead Bidder/ consortium partner/ OEM (Or solution provider of OEM) partner should have an experience of successful execution of at least one similar large scale project in Agriculture Domain for government in India by using high resolution satellite data</p> <table><tr><td></td><td>Project worth</td><td>Achieved By single project</td><td>Achieved By two or more projects</td></tr><tr><td>1.</td><td>>=20 Cr</td><td>7.5 Marks</td><td>5 Marks</td></tr><tr><td>2.</td><td>>=35 Cr</td><td>10 Marks</td><td>7.5 Marks</td></tr><tr><td>3.</td><td>>=50 Cr</td><td>15 Marks</td><td>10 Marks</td></tr></table>		Project worth	Achieved By single project	Achieved By two or more projects	1.	>=20 Cr	7.5 Marks	5 Marks	2.	>=35 Cr	10 Marks	7.5 Marks	3.	>=50 Cr	15 Marks	10 Marks	<p>In order to attract wider competition with technical capabilities on the domain, we request you to kindly amend the criteria for:</p> <p>1. Similar Projects can be extended to Agriculture allied domain like Water Resources, Irrigation where satellite data, crop mapping, crop identification have been included. 2.</p> <p>1. Project Worth >= 8 Cr , Achieved by single Project 7.5 marks , Achieved by Two or more projects 5 marks</p> <p>2. Project Worth >= 10 Cr , Achieved by single Project 10 marks , Achieved by Two or more projects 7.5 marks</p> <p>3. Project Worth >= 20 Cr , Achieved by single Project 15 marks , Achieved by Two or more projects 10 marks</p>	<p>As per RFP</p>
	Project worth	Achieved By single project	Achieved By two or more projects																	
1.	>=20 Cr	7.5 Marks	5 Marks																	
2.	>=35 Cr	10 Marks	7.5 Marks																	
3.	>=50 Cr	15 Marks	10 Marks																	
60	General Query	<p>Regarding Submission Date Extension</p>	<p>We kindly request you to extend the submission deadline by 2 weeks to enable us to submit a quality response required for the project</p>	<p>As per RFP</p>																

61	CV	Resources proposed on project: (At least working with the bidder for minimum of last 2 years)	As per current practice, the subject domain qualified professionals are working as consultant to the firm not on the payroll. It is requested to consider domain professionals associated with the bidder in last 2 years.	As per RFP
62	16.1 (3) (Crop Acreage & Production Monitoring System) 16.1 (4) (Weather Pattern) 16.1 (5) (Crop Loss Assessment)	Are you interested to process the satellite imagery for crop identification on Desktop GIS application or Web based GIS application	-	Web based cloud application to be supplied
63	16.1 (6) (Advisory) (Pg-44)	GIS Map tools for digitization of Farm Boundaries by Farmers. What are number of users on field for farm boundary demarcation?	-	As per RFP ; it will be informed to selected bidder.
64	17.2 (Web Portal)	The application development on Open Source Tech. Can suggest the use of COTS product as it will be a large data handling for an open source tech	-	Development of the application is suggested / preferred in Open Source Technology. The proposed technology/framework should not be EOS/L during the project tenure.
65	Section 11, Terms of Payment, c) Proposed Time line for the Application & Command & Control Centre Setup	Delivery Timelines	The Delivery timelines of Application and Command and Control Setup is of 5 months which seems to be quite aggressive. Requesting the authorities to relax the delivery timelines to 7 months.	As per RFP
66	Section 12 and Annexure 16, Bill of Quantity	BoQ Line Items and Tax (%)	Requesting the authorities to elaborate the BoQ line items requirements and Tax (%) asked against each line item.	The bidder has to proposed items requirement for solution. The bidder may propose applicable tax as per actual. Wrong quoted TAX RATE is liable to disqualification.
67	Section 16.2 Command and Control Unit, Page 48	Human Resource	The resources mentioned under Human Resource are to be deployed throughout 5 years of timeline at AOCC? What if the SI requires to change the resource? Please Explain.	As per RFP
68	Section 17 Platform Customization and Configuration	Technology	The platform has to be developed on an Open Source Technology or Proprietary Software is valid for the development?	As per RFP
69	Section 18.4 Award Criteria (QCBS)	$S = S_t \times T_w + S_f \times F_w;$ Where S is the combined score, and Tw and Fw are weights assigned to Technical and Financial Proposal that will be 60:40 respectively	To have the technologically quality bidders for having this project successfully implemented it is essential to give weightage to technical proposal. Hence, our suggestion is to have 70:30 in place of current 60:40 ratio.	As per RFP
70	RFP Section 18, 18.1 Pre-Qualification Criteria, PQ - 2	The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).	Average Annual Turnover of at least 150 Crores from "IT/ITeS Business & Operations in last three Financial Years i.e. (2020-21, 2021-22 and 2022-23) or (2019-2020, 2020-21, 2021-22)	The Sole Bidder or Lead Bidder in case of consortium should have from IT/ITES business achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).

71	RFP Section 18, 18.1 Pre-Qualification Criteria, PQ - 5	The Bidder should have the valid ISO 9001:2015 or CMMi level 3 certification or better as on bid submission date	The Bidder should have the valid ISO 9001:2015 and CMMi level 3 certification or better as on bid submission date	The Bidder should have the valid ISO 9001:2015 and CMMi level 3 certification or better as on bid submission date
72	RFP Section 18, 18.1 Pre-Qualification Criteria, PQ - 7	<p>The bidder must have experience in successful execution of similar projects in India during last five years from the date of bid submission. With value listed below.</p> <p>1) One project of similar nature with the value of at least 40 crore or</p> <p>2) Two projects of similar nature with the value of at least 25 crore or</p> <p>3) Three projects of similar nature with the value of at least 20 crore</p>	<p>Mostly system integrators don't carry such similar experience. Experience of IT / ITeS Projects like; Data Center, IT Infrastructure and ICT setup, may please be allowed from system integrators. Considering an importance and value of the project, this will enable department to have fair participation and submission of most balance and cost effective solution from reputed SI for successful rollout & implementation of the project.</p>	As per RFP
73	RFP Section 18, 18.2 Technical Qualification Criteria, TQ 1	<p>The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crore in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).</p> <p>Turnover: -</p> <p>1. >=150 & < 200 Cr - 5 Marks</p> <p>2. >=200 and <250 Cr - 7.5 Marks</p> <p>3. >= 250 Cr - 10 Marks</p>	<p>Difference in achieving 100 crores of average turnover within 3 years is very high. Considering the project value, we request you to relax the criteria as; this will enable us and other SIs to submit most balanced and cost effective solution to esteemed project.</p> <p>Turnover: -</p> <p>1. >=150 Cr - 5 Marks</p> <p>2. >=160 and <180 Cr - 7.5 Marks</p> <p>3. >= 180 Cr - 10 Marks</p> <p>** Last Financial Years (2020-21, 2021-22 & 2022-23).</p>	As per RFP
74	RFP Section 18, 18.2 Technical Qualification Criteria, TQ 5	Resources proposed on project	<ul style="list-style-type: none"> Requirement of manpower from specific domain as on current period will be very difficult to justify by most of the system integrators. Undertaking from HR department of prospective bidder's is to be asked stating the deployment of specific domain experts' subject of award of work from department. Department may ask the manpower strength from IT/ITeS domain of prospective bidder as listed below to justify the technical qualification. <p>1. >=75 - 5 Marks</p> <p>2. >=80 and <100 - 7.5 Marks</p> <p>3. >= 100 Cr - 10 Marks</p>	As per RFP
75	RFP Section 16.2 Command and Control Unit, Pg: 54 of RFP Doc	The bidder will be responsible for the MPLS bandwidth required at AOCC, and provision bandwidth, and all network termination equipment (switches, routers, cables, etc.) at command centre based on the sizing. Bidder will be responsible for the connectivity at AOCC.	Request you to quantify the requirement pls. This is required to derive the costing of the specific requirement.	As per the solution of bidder and the quantity of data generated as per solution.

76	Submission of prequalification and technical bid documents	Submission of EMD, and Other Documents on or before bid submission date at the office of the Director of Agriculture, Krishi Bhavan, Sector 10A, Ch Road, Gandhinagar 382010, Gujarat	The EMD as well as PQ and TQ documents needs to be submitted physically? Or only EMD needs to be submitted physically on or before the bid submission date? Kindly clarify.	Only EMD needs to be submitted physically on or before the bid submission date.
77	Section 12, Bill of Quantity, Pg No. 30	CAPEX and OPEX Cost	The BoQ table consist of Separate CAPEX column cost and OPEX Cost for 5 years. As per the RFP the total project period is of 5 years which includes CAPEX as well as OPEX. The BoQ table mentioned in the RFP does not relate with that. Hence, kindly clarifiy for the same.	CAPEX and OPEX cost is to be mentioned separate.
78	Annexure 16, Bill of Quantity	Tax Rate (%)	The Tax rate (%) are mentioned separate for each line item which should not be the case. This would lead to variation in final bid price by varying Tax percentage. Hence, requesting the authorities to fix the Tax percentage for all the line items mentioned in the BoQ.	Bidder shall quote domestic tax, duties, fees and other impositions (wherever applicable) levied under the applicable law. The billing should be done in Gujarat only.
79	Annexure 16, Bill of Quantity, Section 2 Web and Mobile Applications Customization and Configuration	Sr. No. 1.1, 1.2, 1.3, 3.1 and 3.2	These line items are kept open under IT Infrastructure and Licenses. This would lead to variation in overall bidder's understanding in terms of deliverables to be made. The RFP clearly suggests the overall requirements. Hence, keeping this open would create confusion. Requesting the authorities to keep one line item as Sr. No. 1 IT Infrastructure and Sr. No. 3 Licenses.	As per the solution bidder has to propose the IT infrastructure components and rates.
80	Annexure 16, Bill of Quantity, Section 2 Web and Mobile Applications Customization and Configuration	CAPEX and OPEX Cost	As per the point mentioned in the RFP on Page No. 32 " <i>Overall project duration is 5 years from the contract signing date. Implementation period is 5 months from the contract signing date, the remaining 7 months' time period will be considered as a warranty period of deployed mobile and web applications. Operations & Maintenance (O&M) period is for 4 years post warranty period. Reports are expected to be generated over a course of 5 years from the contract signing date</i> ". Referring this point the CAPEX cost and O&M first year should not be separate. The O&M should be for 4 years. Hence, kindly request the authorities to clarify on this section of BoQ.	As per RFP.
81	Annexure 16, Bill of Quantity, Section 2 Web and Mobile Applications Customization and Configuration	Advisories	The advisories line item in the BoQ in Kharif Season has Qty. mentioned as 1 whereas the Rabi and Summer season does not have the quantities mentioned in the BoQ. In the line item itself it is mentioned 15 Advisories, that means the quantity should be 15 in each season. Requesting the authorities to clarify on the quantities of these advisories.	The yearly rates should be according to the total quantity which is 15 and applicable to all the relevant tables.
82	Annexure 16, Bill of Quantity, Section 2 Web and Mobile Applications Customization and Configuration	Amount in the BoQ	With reference to Section 15 , point no. 2 of the RFP it is mentioned that the amount has to be entered in numbers and in words. Whereas the BoQ does not have the place anywhere to mention the amount in words. Hence, shall the bidder mention the amount in words in the Total of each section as well as in the Grand Total or the authorities would revise the BoQ specifcially mentioning the amount in words to be entered.	Please see corrigendum for Annexure 16 Bill of Quantity

83	Annexure 12, Section 12.1, Page No. 83	Configuration for the Video Wall Screen Screen Size 55 " ± 1 or higher	The specifications mentioned over here are having technical issues in terms of color balancing and image retention over a period of time of usage as well as it does not come with redundant power supply. The ideal Screen Size for the requirements must be 56 " ± 1 or higher. The current configuration will do not have the warranty period of 5 years. Hence, the change is suggested.	As per RFP.
84	Section 18.1, Pre Qualification Clause No.2	The Sole Bidder/ Lead Bidder/ Consortium Partner/ OEM (or solution provider of OEM) average annual turnover for the last three financial years (i.e. 2019-20, 2020-21 and 2021-22) from the IT based agriculture/ Remote sensing projects must be minimum INR 15 Crore.	We understand that the clauses as mentioned for Pre Qualification and Technical Qualification where the turnover or similar project experiences of Sole Bidder/Lead Bidder/Consortium Partner/OEM (or Solution Provider of OEM) would be considered i.e. either of one of the entities, Sole Bidder or Lead Bidder or Consortium Partner or OEM (or Solution Provider of OEM) turnover or experiences would be considered to suffice these clauses. Please confirm.	Yes; As per RFP
85	Section 18.1, Pre Qualification Clause No.7	The bidder must have experience in successful execution of similar projects in India during last five years from the date of bid submission. With value listed below. 1) One project of similar nature with the value of at least 40 crore or 2) Two projects of similar nature with the value of at least 25 crore or 3) Three projects of similar nature with the value of at least 20 crore 2 Similar project is defined as a project that entails Satellite data, Crop Mapping, Crop Identification, yield estimation, agriculture web and mobile application (only agriculture web and mobile application will not be considered) for central, state government or any government enterprise in India. Projects from Sole Bidder/Lead Bidder/Consortium Partner/OEM (Or solution provider of OEM) may be considered.		

86	Section 18.2, Technical Qualification Clause No. 3	<p>The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed Digital Agriculture System which should have been used to represent agricultural insights.</p> <p>The land area covered per season must be at least 25,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.</p>		
87	Section 18.2, Technical Qualification Clause No. 4	Sole Bidder/Lead Bidder/ consortium partner/ OEM (Or solution provider of OEM) partner should have an experience of successful execution of at least one similar large scale project 4 in Agriculture Domain for government in India by using high resolution satellite data.		
88	GeM Portal	Document Upload	We request the authorities to clarify the section where in Pre Qualification and Technical Qualification documents would be uploaded on the GeM portal. There seems to be no option of uploading these documents separately.	Clarification will be sought on GEM Portal only.
89	18.4 Award Criteria (QCBS)	Technical and Financial Proposal ratio 60:40	The project being technically more complex and quite technologically more advance, it is essential to have the weightage of technical score higher in comparison with the financial score. Hence, our suggestion would be consideration of weightage of 70:30 i.e. 70% Technical Score and 30% Financial Score	As per RFP
90	Design & Development of Web & Mobile Applications	Security Audit	Will the SI require to do the security audit of the developed web application? If Yes, then what would be the frequency of the same throughout the project period.	Yes, before Go-Live onetime of each module and post go-live every year two times.
91	Section 18.1, Pre-Qualification Criteria, Point No. 9	Undertaking as per Office Memorandum No.: F. No.6/18/2019-PPD dated 23.07.2020 & Office Memorandum No.: F.18/37/2020-PPD dated 08.02.2021 published by Ministry of Finance, Dept. of Expenditure, Public Procurement division	Kindly elaborate the undertaking as mentioned against this clause.	As per RFP
92	17.1 Application customization, configuration, host and management, Pg 50	The selected bidder should identify the stakeholders with the help of the authority and necessary information should be collected by designing questionnaire, interviews with respective stakeholders. The stakeholders will be DAG officials, scientists from agriculture universities and farmers.	The bidder will have to visit the mentioned stakeholders separately or department will arrange for information collection from these stakeholders. Kindly clarify.	As per RFP

93	17.3 Mobile Application	Mobile Application	Do the SI needs to develop the mobile application for farmers only or for farmers as well as the department's field functionaries. Please clarify.	BOTH; As per RFP
94	4 Instructions to Bidders Pg No. 7	2) Consortium for this project is allowed but the total consortium members should not be more than two including the lead bidder.	Please amend the clause as followiwnng: 2) Consortium for this project is allowed but the total consortium members should not be more than two three including the lead bidder.	As per RFP
95	9.3 Risk Purchase Clause Page No. 21	9.3 Risk Purchase Clause In the event selected bidder fails to execute the project as stipulated and the directions given by the authority from time to time, the authority reserves the right to procure similar services from the next eligible bidder or from alternate sources with similar tender terms and the same cost of H1 bidder/selected bidder/successful bidder. Before taking such a decision, the authority shall serve a notice period of one month to the selected bidder. Additionally, the authority will forfeit the Performance Bank Guarantee and the selected bidder may be blacklisted by the authority.	Please amend the clause as followiwnng: In the event selected bidder fails to execute the project as stipulated and the directions given by the authority from time to time, the authority reserves the right to procure similar services from the next eligible bidder or from alternate sources with similar tender terms and the same cost of H1 bidder/selected bidder/successful bidder. Before taking such a decision, the authority shall serve a notice period of one month to the selected bidder. Additionally, the authority will forfeit the Performance Bank Guarantee and the selected bidder may be blacklisted by the authority.	As per RFP
96	11 Terms of Payment Page No. 29	c) Proposed Time line for the Application & Command & Control Centre Setup The agency needs to adhere following timeline (T is the date of signing of the Agreement) ☐ SRS for the Mobile Application – T + 2 month – 10% of CAPEX ☐ Mobile Application Development & Deployment – T + 3 months – 20% of CAPEX ☐ Command and Control Centre Setup – T + 2 months – 65% of CAPEX (BOQ line item No. 3, Sr.No.1-2) ☐ SRS for the Web application - T + cv3 months – 25% of CAPEX ☐ Platform Customization & UAT – T + 4 months - 30% of CAPEX ☐ Go-Live of the application – T + 5 months - 15% of CAPEX ☐ Operations & Maintenance – T + 5 onward – Quarterly from OPEX	Please amend the clause as followiwnng: Web & Mobile Application Customization and Configuration (BOQ line item No. 2) ☐ Mobilization Advance (Interest Free) - 10% of CAPEX SRS for the Mobile Application – 10% of CAPEX ☐ Mobile Application Development & Deployment – 20% 30%of CAPEX ☐ SRS for the Web application – 25% of CAPEX ☐ Platform Customization & UAT - 30% 15% of CAPEX ☐ Go-Live of the application - 15% 10% of CAPEX Agriculture Operations & Command Centre (AOCC) setup (BOQ line item No. 3, Sr.No.1-2) ☐ Mobilization Advance (Interest Free) - 10% of CAPEX ☐ Command and Control Centre Setup – 65% of CAPEX A. Delivery of components on Pro-rata basis - 70 % of CAPEX B. Implementation of components on Pro-rata basis - 10% of CAPEX ☐ Go-Live of the application - 25% 10% of CAPEX Operations & Maintenance – ☐ Reports Submission - Quarterly from OPEX (BOQ line item No. 1 and 3, Sr.No.3)	Please see corrigendum

97	<p>11 Terms of Payment</p> <p>Page No. 29</p>	<p>c) Proposed Time line for the Application & Command & Control Centre Setup</p> <p>The agency needs to adhere following timeline (T is the date of signing of the Agreement)</p> <p>☐ SRS for the Mobile Application – T + 2 month – 10% of CAPEX</p> <p>☐ Mobile Application Development & Deployment – T + 3 months – 20% of CAPEX</p> <p>☐ Command and Control Centre Setup – T + 2 months – 65% of CAPEX (BOQ line item No. 3, Sr.No.1-2)</p> <p>☐ SRS for the Web application - T + cv3 months – 25% of CAPEX</p> <p>☐ Platform Customization & UAT – T + 4 months - 30% of CAPEX</p> <p>☐ Go-Live of the application – T + 5 months - 15% of CAPEX</p>	<p>We request you to extend the timelines as per below</p> <p>The agency needs to adhere following timeline (T is the date of signing of the Agreement)</p> <p>☐ SRS for the Mobile Application – T + 2-month 3 Months</p> <p>☐ Mobile Application Development & Deployment – T + 3-months 7 Months</p> <p>☐ Command and Control Centre Setup – T + 2-months 6 Months</p> <p>☐ SRS for the Web application - T + cv3-months 7 Months</p> <p>☐ Platform Customization & UAT – T + 4-months 8 Months</p> <p>☐ Go-Live of the application – T + 5-months 9 Month</p>	<p>Please see corrigendum</p>
98	<p>1. Service Level – Implementation period SLA</p> <p>Page No. 29</p>	<p>Delay in milestone delivery - Rs. 1,00,000 per week</p> <p>Delay in report submission - Rs. 1,00,000 per week per report</p> <p>Delay in advisories - Rs. 50,000 per week per advisory</p> <p>Delay in manpower deployment at AOCC and break in service continuity - Rs. 50,000 per week</p>	<p>Please amend the clause as follow:</p> <p>Delay in milestone delivery - Rs. 1,00,000 10,000 per week</p> <p>Delay in report submission - Rs. 1,00,000 10,000 per week per report</p> <p>Delay in advisories - Rs. 50,000 5,000 per week per advisory</p> <p>Delay in manpower deployment at AOCC and break in service continuity - Rs. 50,000 5,000 per week</p>	<p>As per RFP</p>
99	<p>2. Service level agreement for O&M phase</p> <p>Note:</p> <p>Page No. 30</p>	<p>4. If the cumulative penalty under SLA exceeds 3% of contract value then the selected bidder's security deposit will be forfeited, the selected bidder may be blacklisted by the authority and Risk Purchase Clause will be applicable</p>	<p>Please amend the clause as folloiwng:</p> <p>If the cumulative penalty under SLA exceeds 3% 10% of contract value then the selected bidder's security deposit will be forfeited, the selected bidder may be blacklisted by the authority and Risk Purchase Clause will be applicable forceit of BG and Risk purchase will be applicable</p>	<p>4. If the cumulative penalty under SLA exceeds 10% 3% of contract value then the selected bidder's security deposit will be forfeited, the selected bidder may be blacklisted by the authority and Risk Purchase Clause will be applicable</p>
100	<p>12 Bill of Quantity (BoQ)</p> <p>Page No. 32</p>	<p>The bidder must submit price bid, CAPEX-OPEX for AOCC (Agriculture Operations & Command Centre) cost should have 65-35 proportionate</p>	<p>Please amend the clause as folloiwng:</p> <p>The bidder must submit price bid, CAPEX-OPEX for AOCC (Agriculture Operations & Command Centre) cost should have 65-35 80 - 20 proportionate.</p> <p>Also, We understand Bidder need not to maintain CAPEX - OPEX ratiofor WEB and Mobile Application. Kindly confirm.</p>	<p>As per RFP</p>
101	<p>14 Penalty</p> <p>Page No. 34</p>	<p>14 Penalty</p>	<p>Please insert the following clause:</p> <p>The maximum penalty shall be 3% of contract value</p>	<p>As per RFP</p>

102	14 Penalty Page No. 34	Failure in achievement of 65 % accuracy leads to cancellation of payment of particular report.	Please amend the clause as folloiwng:: ☑ Report Accuracy > = 65% - No penalty ☑ Report Accuracy >55% and <65% - 10% of payment of particular report as penalty ☑ Report Accuracy >45% and <55% - 25% of payment of particular report as penalty ☑ Report Accuracy >35% and <45% - 50% of payment of particular report as penalty ☑ Report Accuracy <35% - cancellation of payment of particular report	As per RFP
103	2. Human Resource Page No. 48	The resources mentioned in AOCC will not be required from day 1 and they should be deployed after AOCC setup. The resources proposed in AOCC will be working with DAG for overall coordination, monitoring and in support. The selected bidder will have separate manpower for the project execution.	Please add the following clause The Project Manager shall be on Bidder's payroll. Other resources mentioned in AOCC can be from Bidder/Consortium/ Third Party Payroll	Manpower resourse must be on payroll of either company of bidder/consotium.
104	Note: Page No. 49	The bidder will be responsible for the MPLS bandwidth required at AOCC, and provision bandwidth, and all network termination equipment (switches, routers, cables, etc.) at command centre based on the sizing. Bidder will be responsible for the connectivity at AOCC.	As per government guidelines (TRAI) , the bandwidth charges shall be directly paid to the ISP without any customization or service cost generally. Hence, we request you to exclude bandwidth from the bid evaluation.	As per RFP
105	Note: Page No. 49	The bidder will be responsible for the MPLS bandwidth required at AOCC, and provision bandwidth, and all network termination equipment (switches, routers, cables, etc.) at command centre based on the sizing. Bidder will be responsible for the connectivity at AOCC.	Please share the Latitude - Longitude of the location to provide MPLS Bandwidth	the Latitude - Longitude of the location is Krushi bhavan, Sector 10A, Gandhinagar
106	18.1 Pre-Qualification Criteria Page No. 58	In case of consortium, the consortium partner should have achieved average annual turnover of at least INR. 15 Crores from ICT business (Design and development of software and mobile application, cloud services, supply of hardware, system integration, operation and maintenance services) in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).	Please amend the clause as folloiwng: In case of consortium, the consortium partner should have achieved average annual turnover of at least INR. 15 Crores from ICT business (Design and development of software and mobile application or cloud services or supply of hardware, system integration, operation and maintenance services) in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).	As per RFP

107	18.2 Technical Qualification Criteria Page No. 60	The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed Digital Agriculture System which should have been used to represent agricultural insights. The land area covered per season must be at least 25,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.	Please amend the clause as following: The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed Digital Agriculture System which should have been used to represent agricultural insights. The land area covered per season must be at least 25,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.	The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed / Similar Digital Agriculture System which should have been used to represent agricultural insights. The land area covered per season must be at least 25,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.
108	2. Human Resource Page No. 62	Note: In the Technical Qualification Criteria, in the clause number 5, resources mentioned in line item 2, 3, 4 and 5 can be provided by consortium partner/ OEM (Or solution provider of OEM). The resources will be deployed from the day 1 till the entire project timeline.	The clause contradicts with "Page No. 48 clause 2 Human Resource - Note Sl.No. 1 " which states that The resources mentioned in AOCC will not be required from day 1 and they should be deployed after AOCC setup. Please clarify the deployment timeline for resources.	As per RFP
109	General		any change in statutory Taxes and Duties including introduction of new levies if any shall be borne by Department at actuals against submission of documentary proof	Will be allowed after verification and through approval from authority
110	PQ and TQ Page No. 58	Bid Submission documents	Please confirm whether Pre-Qualification or technical Qualification documents to be submitted online or Offline.	Pre-Qualification or technical Qualification documents to be submitted online only.
111	19.2 Data Data processing service on the remote sensing applications Page No. 66	Reports	Please confirm whether the reports to be submitted in hard copies or to be uploaded on web portal	Bidder has to make available as per requirement i.e Hardcopy, Softcopy, Webportal
112	19.2 Data Data processing service on the remote sensing applications Page No. 66	Advisories	What would be the unit for generalized advisories that would be required to be disseminated? Mode of dissemination?	it will be as per instruction of authority and mode will be Web application, Mobile application and SMS broadcasting
113	18.4 Award Criteria (QCBS): Page No. 64	$S = S_t \times T_w + S_f \times F_w$; Where S is the combined score, and T_w and F_w are weights assigned to Technical and Financial Proposal that will be 60:40 respectively.	Considering the scope of technology as a crucial aspect of this tender, we request you to amend the T_w and F_w weights as 70:30	As per RFP

114	Page 21, Section 9.2-Delay and Non-Performance	In case of implementation schedule not being adhered to, the authority has the right to cancel the order wholly or in part without any liability to pay cancellation charges and procure the goods & services elsewhere in which case the successful bidder shall make good the difference between the cost of goods & services procured elsewhere and price set forth in the order with the successful bidder.	The clause “successful bidder shall make good the difference between the cost of goods & services procured elsewhere and price set forth in the order with the successful bidder” needs to be removed. Otherwise upper ceiling needs to be provided	As per RFP
115	Page No 58, 18.1 Pre-Qualification Criteria	The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of atleast INR. 150 Crores in last three financial years (i.e.2019-20, 2020-21 and 2021-22).	Considering the estimated value of the project, Qualification Criteria Sl. no 2 needs to be revised more than 1000 Cr.	As per RFP
116	Page 29, Section 11-C - Proposed Time line for the Application & Command & Control Centre Setup	Proposed Time line for the Application & Command & Control Centre Setup	clarity is required in % of capex	Please see corrigendum
117	Page No 59, 18.1 Pre-Qualification Criteria Sl 7	The bidder must have experience in successful execution of similar projects in India during last five years from the date of bid submission	The Sole Bidder/ Lead Bidder/ Consortium Partner/OEM must have experience in successful execution of similar projects in India during last five years from the date of bid submission	As per RFP
118	Page 60, 18.2 Technical Qualification Criteria	Technical Qualification Criteria 1,2	Considering the estimated value of the project, Evaluation Criteria 1 & 2 needs to be revised to higher value	As per RFP
119	Advisory, Page 44 -Section 16.1, Subsection 6, iii, e	Mobile application	How many farmers is expected to use the mobile application ?	50 lacs farmers
120	Sec 7.2, Page 15	EMD	Indemnity bond instead of BG/DD is requested as BEL is PSU.	As per RFP
121	Sec 7.2, Page 21	SD	Indemnity bond instead of BG/DD is requested as BEL is PSU.	As per RFP
122	Page 30, Section 11	If the cumulative penalty under SLA exceeds 3% of contract value then the selected bidder's security deposit will be forfeited, the selected bidder may be blacklisted by the authority and Risk Purchase Clause will be applicable	The cumulative penalty value need to be revised to more than 10%	If the cumulative penalty under SLA exceeds 10% 3% of contract value then the selected bidder's security deposit will be forfeited, the selected bidder may be blacklisted by the authority and Risk Purchase Clause will be applicable
123	18.1 Pre-Qualification Criteria, Page No. 58	The Sole Bidder/ Lead Bidder/ Consortium Partner/OEM (or solution provider of OEM) average annual turnover for the last three financial years (i.e. 2019-20, 2020-21 and 2021-22) from the IT based agriculture/ Remote sensing projects must be minimum INR 15 Crore..	We are assuming cumulative turnover of all consortium partners shall be considered under this clause. Please confirm.	As per RFP

124	18.1 Pre-Qualification Criteria, Page No. 58	The Bidder should have the valid ISO 9001:2015 or CMMi level 3 certification or better as on bid submission date	We assume that this can be met by any of the consortium partner. Please confirm.	As per RFP; The Bidder should have the valid ISO 9001:2015 and CMMi level 3 certification or better as on bid submission date
125	18.2 Technical Qualification Criteria, Page No. 66	Resources proposed on project: Documents Required - Offer Letter / Agreement of Employee with the company along with HR certificate. Annexure -3 with the details	We understand that external consultants having agreement with the bidding firm shall be considered under this criteria. Please confirm.	As per RFP
126	18.1 Pre-Qualification Criteria & 18.2 Technical Qualification	OEM Credentials	In some of the criteria, OEM credentials are allowed but there is no clarity on whether a single OEM can give credentials to multiple bidders. Please clarify it.	As per RFP
127	18.2 Technical Qualification Criteria, Point 2 Page No. 60	The Sole Bidder or Lead Bidder experience of executing large scale projects in India for PSU/ State Government/ Central Government	We assume that only large scale IT projects including Software and Hardware shall be considered under this clause. Only hardware supply projects shall not be considered. Please confirm.	As per RFP
128	18.1 Pre-Qualification Criteria& 18.2 Technical Qualification Criteria,	Past Experience - General Query - PQ - 7 & TQ - 2, 3,4	We request department to kindly allow similar work experience executed globally under PQ and TQ.	As per RFP
129	18.2 Technical Qualification Criteria, Point 2, Page No.61	The Sole Bidder or Lead Bidder experience of executing large scale projects in India for PSU/ State Government/ Central Government.	We request department to kindly allow on-going/substantially completed projects also under this clause.	As per RFP
130	18.Eligibility Criteria & Bid Evaluation Procedure, 18.1	The Sole Bidder and all the consortium partners shall be registered in India under Companies Act 1956 should have registered office In India and should be in existence for at least 5 years as on 31/03/2022.	Please give us relaxation on this point as our consortium partner provide global services for Geospatial domain and develop solutions for the same domain.	As per RFP
131	16. Scope of work, Number 2	The authority may provide the field survey data to the selected bidder of the previous years for planning field survey well in advance in the beginning of the crop season.	Field data of the previous year will be have survey pattrens in all the 3 seasons along with justification of selecting that time as suitable for survey, fornat of data should be in geoformat with lat long, attributes and media of corp or site. Please validate this information.	Deapartment will provide historical data in available format only. The department will provide instructions for sutable time for survey.
132	16. Scope of work, Number 3, Point A	In the absence of cadastral data, the bidder needs to define the farm boundary.	I belive farm boundary will be generated based on crop classification pattern in region, as per crop changes land parcel boundary will change. And which kind of insight will organisation provide on this task. Please validate the sentence and give suitable information.	As per RFP
133	16. Scope of work, Number 3, Point B	Mapping should be continuing throughout the period as sowing date is not fixed and some crops are being cultivated throughout the year irrespective of season.	Frequency of the mapping through the season for specific crop will be informed prior to the season starts, i believe mapping will not be regular basis as monthly practise. Please provide us the mapping pattern information and validate this sentence.	As per RFP
134	16. Scope of work, Number 3, Point C, Sub Point 2	The authority may also add additional crops for the yield models in future as per the requirement.	Authority will provide exact crop specific data including crop yield pattren, suitable land and eact season in order to generate model, also authority will provide time exact time when they need model for new crop. Please provide the insight on this point.	As per RFP

135	16. Scope of work, Number 4, Section A	The selected bidder needs to acquire the weather data including the forecasted data.	Provide the time line of weather data and accuracy level. Also i believe that format of weather data will be in softcopy with lattitude and longitude based information. Please varify this sentence.	As per RFP
136	16. Scope of work, Number 4, Section B	Selected Bidder should provide information of crop acreage of the area with crop situation.	I believe that here crop situation define as crop existing condition in farmland, and this type of data requirement will not require another survey. Data from the survey time will be taken as crop situation data. Please validate this sentence.	As per RFP
137	16. Scope of work, Number 4, Section B	Selected Bidder should also map out the areas that are probable flood zone and lacking proper drainage.	From satellite image, company will have to create contour for specific area from which elevation infromation will be get. Authorities are only requiring elevation information of area. Clarify more on this sentence.	As per RFP
138	16. Scope of work, Number 5	Crop loss assessment should be done by satellite data and it should be supported by the field survey.	Satelite data aquirring will not be frequent process therefore satellite image aquisition will be for crop acreage study at that time crop loss information will be compare to primary data. Please validate and give more clarification on this.	As per RFP
139	16. Scope of work, Number 6,Sub point 3	To integrate the weather data from Automatic weather stations (AWS), IMD and any other reliable weather data sources. Weather forecast should include forecasted rainfall, temperature, humidity, wind speed and cloudiness.	Data information model will be on the basis of integrated application timeline for data publish and capture. Please validate if not then provdie additional information on this.	As per RFP
140	16. Scope of work, Number 6,point-b	Selected bidder should also provide the department with detailing of the area, crop situation, acreage and cause of stress as an additional report as well.	Cause of stress will be provided by the field survey result,there is no requirement of additional information and activities for this task. Please validate this sentence.	As per RFP
141	16. Scope of work, Number 6, Mobile application information	Backend platform of the mobile app should have the capability to predict pest and diseases using crop models and should provide controls advisories as preventive action.	Please provide more information on this as this data is covering disease prediction and pest prediction.	As per RFP
142	Part –II Technical Qualification:, Point 2, Page 5	Certificate from the project client for award of contract and stage of satisfactory project completion (in terms of value) in original or its self certified copy for each project claimed, during the last five preceding years.	(a) Please can you extend the years of experience to last 10 years as that would help the firms present the long duration projects. (b) Please allow the self completion certificate / payment receipt as in many instances we don't receive completion certificates from the Client for which projects have been completed.	As per RFP
143	Point no. 9.5 Instructions to Bidders, Page no. 22	However, such liability of Selected bidder shall not exceed the total value of the Project	(a) Please let us know the maximum budget for this assignement and (b) Please also limit the liability for this project to that of the contract value.	As per RFP
144	Point no. 11 (A) Instructions to Bidders, Page no. 28	Minimum 65% data accuracy is compulsory for each report and 70% of overall accuracy required. The payment will be made as per the milestones mentioned below subject to the clearance report on quality check obtained from the authority represntative	What is the benchmark againgst which the accuracy check ? Who will be the authorised representative and what is timeline for the quality check?	Department will form committee/assign an agency for quality check. Methodology of quality check will be shared to selected bidder.
145	Point no. 11 (D-1) Instructions to Bidders, Page no. 29	Service Level Agreement - Implementation Period of SLA and Penalty	What is the Upper limit of Penalties. We believe the limit should be upto 10% of the contract value. Please confirm.	As per RFP

146	Point no. 11 (D-2) Instructions to Bidders, Page no. 30	Service Level Agreement - for O & M Phase	Please elaborate on the measurement of the O&M phase.	As per RFP
147	Point no. 14 Instructions to Bidders, Page no. 34	Penalty - Minimum 65% data accuracy is compulsory required for each report. Failure in achievement of 65% accuracy leads to cancellation of payment of particular report	What is the Penalty rate per week basis and what is the upper limit of Penalty. We believe the upper limit should be 10% of the contract value. Please confirm.	As per RFP
148	Point no. 16.2 -2 Human Resources Instructions to Bidders, Page no. 48	The resources mentioned in AOCC will not be required from day 1 and they should be deployed after AOCC setup. The resources proposed in AOCC will be working with DAG for overall coordination, monitoring and in support. The selected bidder will have separate manpower for the project execution.	For how many days the "Resources proposed in AOCC" are required onsite?	As per RFP
149	Note at Page Number 62	The resources mentioned in the line item 1,2,3,4 and 5 can be provided by consortium partner. The resources will be deployed from the day 1 till the entire project time line.	This statement is contradictory to above, Please clarify.	The resources will be deployed from the day 1 till the entire project time line. However will be deployed at AOCC from AOCC setup commissioning
150	Point no. 18.1 -2 Page no. 58 Pre Qualification Criteria	In case of consortium, the consortium partner should have achieved average annual turnover of at least INR. 15 Crores from ICT business (Design and development of software and mobile application, cloud services, supply of hardware, system integration, operation and maintenance services) in last three financial years (i.e. 2017-18, 2018-19 and 2019-20).	Incase of no consortium, we understand that the the lead firm has to achieve average annual turnover of at least INR. 15 Crores from ICT business. Please confirm	As per RFP
151	Point no. 18.1 -3 Page no. 58 Pre Qualification Criteria	The Sole Bidder / Lead Bidder and all the Consortium members must have minimum experience of Five Years from the Bid Submission date in India with either State or Central Government	Please consider experience of 10 Years Please consider experience not restricted to India only, but from foreign countries should be allowed	As per RFP
152	Point no. 18.1 -5 Page no. 58 Pre Qualification Criteria	The bidder should have the valid ISO 9001:2015 or CMMi Level 3 certification or better as on bid Submission date	Consider the request for bidder having valid ISO 9001:2015 and CMMi Level 5 certification as on bid Submission date	As per RFP
153	Point no. 18.1 -7 Page no. 59 Pre Qualification Criteria	The bidder must have experience in successful execution of similar projects in India during past five years from the date of bid submission. With value listed below. (1) One project of similar nature with the value of at least 40 crore or (2) Two projects of similar nature with the value of at least 25 crore or (3) Three projects of similar nature with the value of at least 20 crore	We request you to allow the experience in successful execution of similar projects not restricted to India only, but from foreign countries should be allowed as well because projects entailing Satellite data, Crop Mapping, Crop Identification, agriculture web and mobile application have been successfully executed in foreign countries much before it was introduced in India.	As per RFP

154	Point no. 18.1 -7 Page no. 59 Pre Qualification Criteria	Similar project is defined as a project that entails Satellite data, Crop Mapping, Crop Identification, yield estimation, agriculture web and mobile application.	Since this project involves 3 components: (a) Satellite data, Crop Mapping, Crop Identification, yield estimation (b) agriculture web and mobile application and © Operation and Command Center; therefore similar project should cover all the 3 components rather just initial 2 components. Please allow all the 3 components to be considered as similar experience.	As per RFP
155	Point no. 18.2 -2 Technical Qualification Criteria Page no. 60	The Sole Bidder or Lead Bidder experience of executing large scale projects in India for PSU/ State Government/ Central Government. Project Cost :>20 Cr – 5 Marks Project Cost :>35 Cr – 7.5 Marks Project Cost :>50 Cr – 10 Marks	Please clarify the marking criteria. By “project cost”, do you mean all the projects falling in the category of defined criterion OR a single project, please clarify. Eg. If a bidder has 2 projects of 40 crore, will it be awarded 10 marks or 7.5 marks?	As per RFP
156	Point no. 18.2 -3 Technical Qualification Criteria Page no. 60	The bidder/ consortium parter/ OEM partner should have the proposed Digital Agriculture System which should have been used to represent agricultural insights.	Please allow experience of successful execution in agriculture domain in India as well as foreign countries because the use of high resolution satellite data in agriculture domain is more extensively used in projects in foreign countries much before it was used in India.	As per RFP
157	Point no. 18.2-4 Technical Qualification Criteria Page no. 60	Sole Bidder/Lead Bidder/ consortium partner/OEM partner should have an experience of successful execution of at least one similar large scale project 4 in Agriculture Domain for government in India by using high resolution satellite data. For project worth > INR 20 Crore : 7.5 Marks For project worth > INR 35 Crore : 10 Marks For project worth > INR 50 Crore : 15 Marks	Please allow experience of successful execution in agriculture domain in India as well as foreign countries because the use of high resolution satellite data in agriculture domain is more extensively used in projects in foreign countries much before it was used in India.	As per RFP
158	Point no. 18.10 Technical Qualification Criteria Page no. 65	Soft copy of technical tender documents in CD.	Please allow Pen Drive for Soft Copy	As per RFP
159	Annexure-2: Relevant Project Experience Page no. 68	Mandatory Supporting Documents: Work completion certificate	We understand that Self completion certificate in company letter head will also be acceptable. Please confirm.	As per RFP
160	From Annexure-4 to Annexure-9 (Pages 70-79)		We understand that we need to submit all these forms on Bidder's letter head. Please confirm.	As per RFP
161	Annexure-14: Consortium Agreement Page no. 86-88		Would this annexure be signed on a stamp paper and of what value.	All agreement document has been signed on 300 rs. value stamp paper.

162	General query		Considering the value of the project and the experience required for executing this project, we would request the department to allow the bidder to consider their international experience with government bodies as well, since the usage of technology in agriculture has been implemented at such large scales globally earlier. This will allow the participation of high quality	As per RFP
163	Point 18.1-7 on Page 59 of the Pre-Qualification Criteria.		Please consider all three components as equivalent in terms of experience, as no pre-bid participants are meeting the criteria outlined in Point 18.1-7 on Page 59 of the Pre-Qualification Criteria.	As per RFP
164	General query		We kindly request that experience in the successful execution of similar projects, not limited to India but encompassing foreign countries as well, should be acceptable.	As per RFP
165	Point 18.2-3 in the Technical Qualification Criteria on Page 60	Technical Qualification Criteria	Please provide some relaxation, specifically regarding the requirement for a minimum of five crops to be classified in a single season. We request a reconsideration and potential adjustment of the number of crops required in a single season.	As per RFP
166	Page No 12, Instructions to Bidders, Point 2	Consortium for this project is allowed but the total consortium members should not be more than two including the lead bidder	Amendment Requested: Taking into consideration the complexity of this project, kindly allow 3 member Consortium for this project for successful execution.	As per RFP
167	Page No 58, Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 1	The Sole Bidder and all the consortium partners shall be registered in India under Companies Act 1956 should have registered office In India and should be in existence for at least 5 years as on 31/03/2022	Amendment Requested: The Sole/Lead Bidder shall be registered in India under Companies Act 1956/2013 should have registered office In India and should be in existence for at least 5 years as on 31/03/2022	The Sole Bidder and all the consortium partners shall be registered in India under Companies Act 1956 /2013 should have registered office In India and should be in existence for at least 5 years as on 31/03/2022
168	Page No 58, Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 2	In case of consortium, the consortium partner should have achieved average annual turnover of at least INR.15 Crores from ICT business (Design and development of software and mobile application, cloud services, supply of hardware, system integration, operation and maintenance services) in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).	Considering the complexity of the project and ensuring success kindly allow 3 member Consortium for this project with following consideration for 2 other consortium partners Amendment Requested: In case of consortium, the One of the consortium partner should have achieved average annual turnover of at least INR. 15 Crores in last three financial years (i.e.2019-20, 2020-21 and 2021-22) and One of Consortium Partner should have achieved INR 5 Cr in last three financial years (i.e.2019-20, 2020-21 and 2021-22)	As per RFP

169	Page No 58, Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 2	<p>The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).</p> <p>1 Parent entity turnover will be considered, provided parent entity is registered in India and has been operational for more than five years, and has ownership of greater than 50% in the bidding entity as of the bid submission date. A letter will be required from parent entity stating the ownership pattern and the support that will be extended for the bidding entity.</p>	<p>Amendment Requested: The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).</p> <p>1 Parent entity turnover will be considered, provided parent entity has been operational for more than five years, and has ownership of greater than 30% in the bidding entity as of the bid submission date. A letter will be required from parent entity stating the ownership pattern and the support that will be extended for the bidding entity.</p>	As per RFP
170	Page No 58, Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 2	<p>The Sole Bidder/ Lead Bidder/ Consortium Partner/ OEM (or solution provider of OEM) average annual turnover for the last three financial years (i.e. 2019-20, 2020-21 and 2021-22) from the IT based agriculture/Remote sensing projects must be minimum INR 15 Crore.</p>	<p>Amendment Requested: The Sole Bidder/ Lead Bidder/ Consortium Partner/OEM (or solution provider of OEM) average annual turnover for the last three financial years (i.e. 2019-20, 2020-21 and 2021-22) from the IT based agriculture/Remote sensing projects must be minimum INR 5 Crore.</p>	As per RFP
171	Page No 58, Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 7	<p>The bidder must have experience in successful execution of similar projects in India during last five years from the date of bid submission. With value listed below. 2</p> <p>1) One project of similar nature with the value of at least 40 crore or 2) Two projects of similar nature with the value of at least 25 crore or</p>	<p>Amendment Requested: The bidder must have experience in successful execution of IT/ITES projects in India during last five years from the date of bid submission. With value listed below. 2</p> <p>1) One project of similar nature with the value of at least 40 crore or 2) Two projects of similar nature with the value of at</p>	As per RFP

172	Page No 60,18.2 Technical Qualification Criteria,Point 3	<p>The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed Digital Agriculture System which should have been used to represent agricultural insights.</p> <p>The land area covered per season must be at least 25,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.</p> <p>Evaluation weightage is as per bellow</p> <p>Sr. No---Area Covered (Sq. Km) ---One season---More than One Season</p> <p>1----->=25000 to <50000----- 3 Marks----- 5 Marks</p> <p>2----->=50000 to <75000----- 5 Marks-----10 Marks</p> <p>3----->=75000 -----7.5 Marks----- 15 Marks</p> <p>Minimum five crops must have been classified in a single season</p>	<p>Amendment Requested:</p> <p>The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed Digital Agriculture System which should have been used to represent agricultural insights.</p> <p>The land area covered per season must be at least 5,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.</p> <p>Evaluation weightage is as per bellow</p> <p>Sr. No---Area Covered (Sq. Km) ---One season---More than One Season</p> <p>1----->=5000 to <20000----- 3 Marks----- 5 Marks</p> <p>2----->=20000 to <40000----- 5 Marks-----10 Marks</p> <p>3----->=40000 -----7.5 Marks----- 15 Marks</p>	As per RFP
173	Page No 61,18.2 Technical Qualification Criteria,Point 4	<p>Sole Bidder/Lead Bidder/ consortium partner/ OEM (Or solution provider of OEM) partner should have an experience of successful execution of at least one similar large scale project in Agriculture Domain for government in India by using high resolution satellite data.</p> <p>Sr. No---Project Worth ---Achieved by Single---Achieved by two or more</p> <p>1----->=20 ----- 7.5 Marks ----- 5 Marks</p> <p>2----->=35 ----- 10 Marks ----- 7.5 Marks</p> <p>3----->=50 -----15 Marks ----- 10 Marks</p> <p>Similar project is defined as a project that entails Satellite data, Crop Mapping, Crop Identification, yield estimation, agriculture web and mobile application (only agriculture web and mobile application will not be considered) for central, state government or any government enterprise in India.</p>	<p>Amendment Requested:</p> <p>Sole Bidder/Lead Bidder/ consortium partner/ OEM (Or solution provider of OEM) partner should have an experience of successful execution of at least one similar large scale project in Agriculture Domain for government in India by using high resolution satellite data.</p> <p>Sr. No---Project Worth ---Achieved by Single---Achieved by two or more</p> <p>1----->=20 ----- 7 Marks ----- 5 Marks</p> <p>2----->=35 ----- 10 Marks ----- 8 Marks</p> <p>3----->=50 -----15 Marks ----- 13 Marks</p> <p>Similar project is defined as a project that entails Satellite data/Crop Mapping/Crop Identification/yield estimation, agriculture web and mobile application (only agriculture web and mobile application will not be considered) for central, state government, Banks or any enterprise . Projects from Sole Bidder/Lead Bidder/Consortium Partner/OEM (Or solution provider of OEM) may be considered.</p>	As per RFP

174	Page No 61,18.2 Technical Qualification Criteria,Point 5	<p>Resources proposed on project:</p> <p>1) Project Manager- 1: 2 Marks (At least working with the bidder for minimum of last 2 years)</p> <p>☑ MBA or equivalent/ PMP certified with 10 years' experience</p> <p>☑ Agriculture domain knowledge</p> <p>2) Remote Sensing Scientist- 1: 2 Marks (At least working with the bidder for minimum of last 2 years)</p> <p>☑ Educational Qualification: M.Sc. /M. Tech/ M.E. or equivalent &Ph.D.</p> <p>☑ Work Experience in the field of Satellite Remote Sensing applications in Agriculture:15 Years</p> <p>☑ Credentials: Minimum 10 Scientific Paper Publications in the domain of Agriculture and Remote Sensing</p> <p>3) Agriculture Scientist – 1: 2 Marks (At least working with the bidder for minimum of last 2 years)</p> <p>☑ Educational Qualification: M.Sc. /M. Tech or equivalent & Ph.D. in Agriculture</p> <p>☑ Years of Experience: > 15 Years</p> <p>☑ Credentials: Minimum 10 Paper Publications in the domain of Agriculture</p>	<p>Amendment Requested:</p> <p>Resources proposed on project:</p> <p>1) Project Manager- 1: 2 Marks</p> <p>☑ MBA or equivalent/ PMP certified with 5 years' experience</p> <p>☑ Agriculture domain knowledge</p> <p>2) Remote Sensing Scientist- 1: 2 Marks</p> <p>☑ Educational Qualification: Bsc/M.Sc. /BE/Btech/M. Tech/ M.E. or equivalent</p> <p>☑ Work Experience in the field of Satellite Remote Sensing applications in Agriculture:5 Years</p> <p>3) Agriculture Scientist – 1: 2 Marks</p> <p>☑ Educational Qualification:Bsc/ M.Sc./ BE/M. Tech/MBA or equivalent</p> <p>☑ Years of Experience: > 5 Years</p> <p>4) Data Scientist -1: 2 marks</p> <p>☑ Educational Qualification: Bsc/BE/Btech/M. Tech/ M.E.</p>	As per RFP
175	Page No 63,18.3 POC Note,Point 6	Once the authority gets notification from all bidders regarding satellite data, the authority will provide 100 Sq. Km. AOI to the bidders along with the Ground Truth (GT) points collected by the mobile application	We request same AOI would be provided for all the Technically qualified bidders	Yes; AS per RFP
176	Page No 63,18.3 POC Note,Point 7	The authority will provide the timelines to submit the results along with the AOI	What is the anticipated timeframe for the provision of the Proof of Concept (PoC)?	As per RFP
177	Page No 12,Instructions to Bidders, Point 2	Consortium for this project is allowed but the total consortium members should not be more than two including the lead bidder	<p>Considering the complexity of the project and ensuring success kindly allow 3 member Consortium for this project.</p> <p>Amendment Requested:</p> <p>Consortium for this project is allowed but the total consortium members should not be more than three including the lead bidder</p>	As per RFP
178	Page No 58,Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 1	The Sole Bidder and all the consortium partners shall be registered in India under Companies Act 1956 should have registered office In India and should be in existence for at least 5 years as on 31/03/2022	<p>Amendment Requested:</p> <p>The Sole/Lead Bidder shall be registered in India under Companies Act 1956/2013 should have registered office In India and should be in existence for at least 5 years as on 31/03/2022</p>	The Sole Bidder and all the consortium partners shall be registered in India under Companies Act 1956 / 2013 should have registered office In India and should be in existence for at least 5 years as on 31/03/2022

179	Page 58, 18.1 Pre-Qualification Criteria Point no. 2-1	The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22)	<p>In reference to the turnover criteria as consortium is allowed hence we request to allow joint capacity of all consortium members and amend the clause as below:</p> <p>The Sole Bidder or cumulative of all consortium members in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22)</p>	As per RFP
180	Page No 58, Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 2-2	In case of consortium, the consortium partner should have achieved average annual turnover of at least INR.15 Crores from ICT business (Design and development of software and mobile application, cloud services, supply of hardware, system integration, operation and maintenance services) in last three financial years (i.e. 2019-20, 2020-21 and 2021-22).	<p>Considering the complexity of the project and ensuring success kindly allow 3 member Consortium for this project with following consideration for 2 other consortium partners</p> <p>Amendment Requested:</p> <p>In case of consortium, the One of the consortium partner should have achieved average annual turnover of at least INR. 15 Crores from IT/ITES/ICT in last three financial years (i.e.2019-20, 2020-21 and 2021-22) and One of Consortium Partner should have achieved average annual turnover of INR 5 Cr in last three financial years (i.e.2019-20, 2020-21 and 2021-22)</p>	As per RFP
181	Page No 58, Eligibility Criteria & Bid Evaluation Procedure	The Sole Bidder/ Lead Bidder/ Consortium Partner/ OEM (or solution provider of OEM) average annual turnover for the last three	<p>Amendment Requested:</p> <p>The Sole Bidder/ Lead Bidder/ Consortium Partner/OEM(or solution provider of OEM) average annual turnover for the last three financial years (i.e. 2019-</p>	As per RFP
182	Page No 58, Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 3	<p>The Sole Bidder/Lead bidder and all the consortium members must have minimum experience of five(5) years from the bid submission date in India with either State or Central Government.</p> <p>Documents: Work order and completion certificate from the client showcasing the years of work experience.</p>	<p>In reference to the experience with government department we request to accept the experience with PSUs as well and request to relax the number of years of experience upto 2. In reference to the past experience with government we request to accept the work order or completion certificate as completion certificate are difficult to obtain specifically from any government department. request to amend the clause as below:</p> <p>The Sole Bidder/Lead bidder and all the consortium members must have minimum experience of two (2) years from the bid submission date in India with either State or Central Government or PSUs.</p> <p>Documents: Work order / completion certificate from the client showcasing the years of work experience.</p> <p>Or</p> <p>The Sole Bidder/any consortium member (In case of consortium) member must have minimum experience of five(5) years from the bid submission date in India with either State or Central Government.</p> <p>Documents: Work order and completion certificate from the client showcasing the years of work experience.</p>	As per RFP

183	Page No 58,Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 5	The Bidder should have the valid ISO 9001:2015 or CMMi level 3 certification or better as on bid submission date	In reference to the CMMI Level we request to obtain the highest level of maturity model from the company and ask for CMMi Level 5 certificate from the sole bidder / any consortium in case of consortium valid as on bid submission date.	The bidder should have the valid ISO 9001:2015 or CMMi Level 3 certification or better as on bid Submission date																																
184	Page No 58,Eligibility Criteria & Bid Evaluation Procedure 18.1-Pre-Qualification Criteria Point 7	The bidder must have experience in successful execution of similar projects in India during last five years from the date of bid submission. With value listed below. 1) One project of similar nature with the value of atleast 40 crore or 2) Two projects of similar nature with the value of atleast 25 crore	In this clause only bidder is mentioned request to clarify that the sole bidder or any consortium member must have experience in successful execution of projects and request to allow the IT/ITES Projects in India during last five years from the date of bid submission. With value listed below. 1) One project of similar nature with the value of atleast 40 crore or 2) Two projects of similar nature with the value of atleast 25 crore or 3) Three projects of similar nature with the value of at least 20 crore	As per RFP																																
185	Page No 60,Eligibility Criteria & Bid Evaluation Procedure 18.2- technical Evaluation Criteria Point 1	The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crore in last three financial years (i.e. 2019-20, 2020-21 and 2021-22). 3 Turnover: -	In reference to the turnover criteria as consortium is allowed hence we request to allow joint capacity of all consortium members and amend the clause as below: The Sole Bidder or cumulative of all consortium members in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in last three financial years (i.e. 2019-20, 2020-21 and 2021-22)	The Sole Bidder or Lead Bidder in case of consortium should have achieved average annual turnover of at least INR. 150 Crores in IT/ITES business in last three financial years (i.e. 2020-21, 2021-22 and 2022-23) or 2019-20, 2020-21 and 2021-22). Rest as per RFP																																
186	Page No 60,Eligibility Criteria & Bid Evaluation Procedure 18.2- technical Evaluation Criteria Point 2	The Sole Bidder or Lead Bidder experience of executing large scale projects in India for PSU/ State Government/ Central Government. <table><tr><td></td><td>Project worth</td><td>Achieved By single project</td><td>Achieved By two or more projects</td></tr><tr><td>1</td><td>>=20 Cr</td><td>5 Marks</td><td>2.5 Marks</td></tr><tr><td>2</td><td>>=35 Cr</td><td>7.5 Marks</td><td>5 Marks</td></tr><tr><td>3</td><td>>=50 Cr</td><td>10 Marks</td><td>7.5 Marks</td></tr></table>		Project worth	Achieved By single project	Achieved By two or more projects	1	>=20 Cr	5 Marks	2.5 Marks	2	>=35 Cr	7.5 Marks	5 Marks	3	>=50 Cr	10 Marks	7.5 Marks	In reference to the Large scale projects we request to accept the projects from any consortium partner and amen the clause as below: The Sole Bidder or Any consortium member in case of consortium shall have experience of executing large scale projects in India for PSU/ State Government/ Central Government. <table><tr><td></td><td>Project worth</td><td>Achieved By single project</td><td>Achieved By two or more projects</td></tr><tr><td>1</td><td>>=20 Cr</td><td>5 Marks</td><td>2.5 Marks</td></tr><tr><td>2</td><td>>=35 Cr</td><td>7.5 Marks</td><td>5 Marks</td></tr><tr><td>3</td><td>>=50 Cr</td><td>10 Marks</td><td>7.5 Marks</td></tr></table>		Project worth	Achieved By single project	Achieved By two or more projects	1	>=20 Cr	5 Marks	2.5 Marks	2	>=35 Cr	7.5 Marks	5 Marks	3	>=50 Cr	10 Marks	7.5 Marks	As per RFP
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187	<p>Page No 60,18.2 Technical Qualification Criteria, Point 3</p> <p>The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed Digital Agriculture System which should have been used to represent agricultural insights.</p> <p>The land area covered per season must be at least 25,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.</p> <p>Evaluation weightage is as per bellow</p> <p>Sr. No---Area Covered (Sq. Km) ---One season---More than One Season</p> <p>1----->=25000 to <50000----- 3 Marks----- 5 Marks</p> <p>2----->=50000 to <75000----- 5 Marks-----10 Marks</p> <p>3----->=75000 -----7.5 Marks----- 15 Marks</p> <p>Minimum five crops must have been classified in a single season</p>	<p>Amendment Requested:</p> <p>The bidder / consortium partner / OEM (Or solution provider of OEM) partner should have the proposed Digital Agriculture System which should have been used to represent agricultural insights.</p> <p>The land area covered per season must be at least 5,000 Sq. Km. per one cycle of data/image processing for any govt. entity in India.</p> <p>Evaluation weightage is as per bellow</p> <p>Sr. No---Area Covered (Sq. Km) ---One season---More than One Season</p> <p>1----->=5000 to <200000----- 3 Marks----- 5 Marks</p> <p>2----->=20000 to <40000----- 5 Marks-----10 Marks</p> <p>3----->=40000 -----7.5 Marks----- 15 Marks</p>	As per RFP
188	<p>Page No 61,18.2 Technical Qualification Criteria, Point 4</p> <p>Sole Bidder/Lead Bidder/ consortium partner/ OEM (Or solution provider of OEM) partner should have an experience of successful execution of at least one similar large scale project in Agriculture Domain for government in India by using high resolution satellite data.</p> <p>Sr. No---Project Worth ---Achieved by Single---Achieved by two or more</p> <p>1----->=20 ----- 7.5 Marks ----- 5 Marks</p> <p>2----->=35 ----- 10 Marks ----- 7.5 Marks</p> <p>3----->=50 -----15 Marks ----- 10 Marks</p> <p>Similar project is defined as a project that entails Satellite data, Crop Mapping, Crop Identification, yield estimation, agriculture web and mobile application (only agriculture web and mobile application will not be considered) for central, state government or any government enterprise in India.</p>	<p>Amendment Requested:</p> <p>Sole Bidder/Lead Bidder/ consortium partner/ OEM (Or solution provider of OEM) partner should have an experience of successful execution of at least one similar large scale project in Agriculture Domain for government in India by using high resolution satellite data.</p> <p>Sr. No---Project Worth ---Achieved by Single---Achieved by two or more</p> <p>1----->=20 ----- 7 Marks ----- 5 Marks</p> <p>2----->=35 ----- 10 Marks ----- 8 Marks</p> <p>3----->=50 -----15 Marks ----- 13 Marks</p> <p>Similar project is defined as a project that entails Satellite data/Crop Mapping/Crop Identification/yield estimation, agriculture web and mobile application (only agriculture web and mobile application will not be considered) for central, state government, Banks or any enterprise . Projects from Sole Bidder/Lead Bidder/Consortium Partner/OEM (Or solution provider of OEM) may be considered.</p>	As per RFP

189	Page No 61,18.2 Technical Qualification Criteria, Point 5	<p>Resources proposed on project:</p> <p>1) Project Manager- 1: 2 Marks (At least working with the bidder for minimum of last 2 years)</p> <p>☑ MBA or equivalent/ PMP certified with 10 years' experience</p> <p>☑ Agriculture domain knowledge</p> <p>2) Remote Sensing Scientist- 1: 2 Marks (At least working with</p>	<p>Amendment Requested:</p> <p>Resources proposed on project:</p> <p>1) Project Manager- 1: 2 Marks</p> <p>☑ MBA or equivalent/ PMP certified with 5 years' experience</p> <p>☑ Agriculture domain knowledge</p> <p>2) Remote Sensing Scientist- 1: 2 Marks</p> <p>☑ Educational Qualification: Bsc/M.Sc. /BE/Btech/M. Tech/ M.E. or equivalent</p> <p>☑ Work Experience in the field of Satellite Remote Sensing</p>	As per RFP
190	Page No 63,18.3 POC Note,Point 6	Once the authority gets notification from all bidders regarding satellite data, the authority will provide 100 Sq. Km. AOI to the bidders along with the Ground Truth (GT) points collected by the mobile application	We request same AOI would be provided for all the Technically qualified bidders	Yes; AS per RFP
191	Page No 63,18.3 POC Note,Point 7	The authority will provide the timelines to submit the results along with the AOI	What is the expected Timeline which would be provided for PoC?	It will be informed by the authority