

REQUEST FOR PROPOSAL (RFP)

FOR

SELECTION OF AGENCY TO UNDERTAKE

Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II

RFP No: 01/2024, Dt-11.01.2024



ODISHA SPACE APPLICATIONS CENTRE (ORSAC)

(Dept. of Science and Technology, Govt. of Odisha)

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Available as Downloads from: www.orsacgeoict.in and www.odisha.gov.in

January-2024



INSTRUCTION TO BIDDERS

INVITATION FOR BIDS:

Odisha Space Applications Centre (ORSAC) invites bids from eligible Agency (here after called as Bidder /Agency) who have the necessary qualifications to undertake Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha, Phase-II per the “Scope of Work” described in this RFP.

The Bid document has been published in the official website of ORSAC (<https://orsacgeoict.in/>), official website of Government of Odisha (www.odisha.gov.in) and e-Tender Portal <https://enivida.odisha.gov.in>. Bidders are requested to go through the Bid document carefully and participate in the bidding process with all necessary details as required.

This RFP is issued by ORSAC, which is the sole point of contact during the selection process. The Nodal Officer responsible for entire process is Scientist-F, ORSAC.

E-TENDER POTENTIAL:

e-Nivida is the complete process of eTendering, from publishing of tenders online, inviting online bids, evaluation and award of contract using the system. You may keep a watch of the tenders floated under <https://enivida.odisha.gov.in>

Bidder Enrollment can be done using “**Bidder Enrollment**”.

The instructions given below are meant to assist the bidders in registering on the e- Nivida Portal, and submitting their bid online on the portal as per uploaded bid.

More information useful for submitting online bids on the eNivida Portal may be obtained at: <https://enivida.odisha.gov.in>

GUIDELINES FOR REGISTRATION:

1. Bidders are required to enroll themselves on the eNivida Portal <https://enivida.odisha.gov.in> or click on the link “Bidder Enrollment” available on the home page of e-tender Portal by paying the Registration fee of Rs.2,500/- + Applicable GST.
2. As part of the enrollment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidders.
4. Upon enrollment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.

5. Only valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.
7. The scanned copies of all original documents should be uploaded in pdf format on e-tender portal.
8. After completion of registration payment, bidders need to send their acknowledgment copy on our help desk mail id odishaenivida@gmail.com, for activation of the account.

SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters.
2. Once the bidders have selected the tenders they are interested in, then they can pay the Tender fee and processing fee (NOT REFUNDABLE) by net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fee tenders will be moved to the respective 'requested' Tab. This would enable the e- tender Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF formats. Bid Original documents may be scanned with 100 dpi with Colour option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g., PAN card copy, GST, Annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" available to them to upload such documents.
- 5) These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process. Already uploaded documents in this section will be displayed. Click "New" to upload new documents.

SUBMISSION OF BIDS

- 1) Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e., on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by Department.
- 3) Bidder should pay the Tender Document fee and the EMD through Demand Draft drawn in favor of Chief Executive, Odisha Space Application Centre, on any nationalised bank payable at Bhubaneswar. Scanned copy of the Tender Document Fee should be shared along with the pre-bid queries and Scanned copy of the EMD should be made as a part of the Pre-qualification Proposal (in First Cover). The demand drafts (Tender Document fee & EMD) in original should be posted/couriered/given in person to the concerned official before the Opening of Technical Bid.
- 4) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the yellow Coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- 5) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 6) The uploaded bid documents become readable only after the tender opening by the authorized bid openers.
- 7) Upon the successful and timely submission of bid click "Complete" (i.e. after Clicking "Submit" in the portal), the portal will give a successful Tender submission acknowledgment & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
- 8) The tender summary has to be printed and kept as an acknowledgment of the submission of the tender. This acknowledgment may be used as an entry pass for any bid opening meetings.

For any clarification in using eNivida Portal:

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the Helpdesk Support.

Please feel free to contact eNivida Help-desk (as given below) for any query related to e-tendering.

Phone No. 011-49606060 and +919877441259

Mail id: - odishaenivida@gmail.com



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1. Schedule of Events

Sl.	Information	Dates & Details
1.	Date of Issue of RFP	16-01-2024
2.	Project Title	RFP for - Selection of Agency to Undertake Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II
3.	RFP Issuing Authority and Contact officer of Tender	Chief Executive, ORSAC, Bhubaneswar, Odisha.
4.	Address for Submission of Bid	ORSAC, Plot No 45/46, Jaydev Vihar, Bhubaneswar, Odisha – 751023.
5.	RFP Document Fees	5,900/- inclusive of GST @ 18% (Rupees Five Thousand and Nine Hundred only)
6.	Last Date of Receipt of Pre-Bid Queries.	29-01-2024, 05.30 PM
7.	Date of Pre-Bid Meeting	30-1-2024, 11.30 AM Pre-bid queries submitted as per format with scanned copy of the Tender Document Fee by the prospective bidders shall be shared the VC link. Pre-bid queries without copy of the Tender Document fee or Not as per format shall not be entertained.
8.	Issue of Consolidated and Relevant Clarifications on the received Pre-Bid Queries.	31-01-2024, 5.30 PM vide email only.
9.	Submission of proposal	The proposals must be submitted online in the portal https://enivida.odisha.gov.in Submission of proposals in other forms or portal shall not be considered. For details on submission of proposal in e-Nivida portal.
10.	Earnest Money Deposit	Rs. 25,00,000/- (Rupees Twenty-five lakhs).
11.	Selection Method	QCBS (70% Weightage on Technical and 30% Weightage on Commercial Evaluation)



12.	Last date of receipt of Bids	15-02-2024, 03.00 PM
13.	Opening of General (Pre-qualification) & Technical Bids	15-02-2024, 04.00 PM
14.	Date of Technical Presentation	16-02-2024, 11.00 AM onwards
15.	Opening of Financial Bids	16-02-2024, 3:30 P.M
16.	Bid to be submitted on or before last date of submission at:	Proposals must be submitted on or before 15-02-2024 by 03:00 PM through electronic mode only. i.e. https://enivida.odisha.gov.in





2. Disclaimer

All information contained in this RFP Document is in faith. This is not an agreement and is not an offer or invitation to enter into an agreement of any kind with any party.

Though adequate care has been taken in the preparation of this RFP Document, the interested bidders shall satisfy itself that the document is complete in all respects. The information is not intended to be exhaustive. Interested bidders are required to make their own enquiries and assumptions wherever required.

Odisha Space Applications Centre (ORSAC) reserves the right to reject any or all of the proposals submitted in response to this RFP Document at any stage without assigning any reasons whatsoever. ORSAC also reserves the right to withhold or withdraw the process at any stage with intimation to all who submitted the RFP Document response. ORSAC reserves the right to change/ modify/amend any or all of the provisions of this RFP Document. Such changes would be posted only in its website (www.orsac.gov.in). Prospective bidders (bidders) are requested to visit the website frequently to keep them abreast with the latest developments on this RFP.

Neither ORSAC nor its employees and associates will have any liability to any prospective respondent interested to apply or any other person under the law of contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this RFP Document, any matter deemed to form part of this RFP Document, the award of the Assignment, the information and any other information supplied by or on behalf of ORSAC or their employees and bidder/ consortium or otherwise arising in any way from the selection process for the Assignment.

Information provided in this document or imparted to any respondent as part of the RFP Document process is confidential to ORSAC and shall not be used by the respondent for any other purpose, distributed to, or shared with any other person or organization.



3. Background Information

The Food Supply and Consumer Welfare (FS&CW) Department of Odisha aims to support the citizens by providing food grains and other essential items and ensure the food support to the families below the poverty line. The department plays an important role in contributing values by procuring good quality food grains and their proper storage.

The department procures paddy from farmers and sharecroppers at multiple locations, mandis through Primary Agricultural Co-operative Societies (PACS) and Pani Panchayats during Kharif and Rabi Marketing Season (KMS) every year. The procured paddy is given to millers who deliver the resultant Custom Milled Rice (CMR) at the Rice Receiving Centers (RRCs) under Odisha State Civil Supplies Corporation (OSCSC). The rice is used for distribution under PDS scheme in the state.

FS&CW Department, Odisha has entrusted the task of Village wise, plot level analysis of paddy crop growing areas using farmers registration data, cadastral maps, land records data (RoR) and near high resolution satellite images captured during the crop maturity period in both Kharif and Rabi Crop seasons to bring better transparency in Paddy Procurement.

ORSAC has successfully implemented the project covering all 30 districts during the Kharif crop season and all 17 districts covered during the Rabi Crop Season from KMS 2021-22 to KMS 2024-24. The objective based evaluation of farmer reported paddy crop, plot-by-plot, village-by-village, eliminating mis-reporting, has streamlined the procurement operations in the paddy procuring districts.

Based on successful implementation of the project by ORSAC, Government of Odisha in FS&CW department has extended the project for further implementation in 9 crop seasons by ORSAC, i.e., from Khariff Crop season (KMS 2024-25) till Khariff Crop season (KMS 2028-29).

4. Project Objective

Village wise Plot Level Analysis of Paddy Crop growing Areas of Odisha for upcoming Rabi and Khariff crop season involving.

- Analysis of Paddy crop reporting for past years
- Updating and Geo-referencing of Cadastral maps based on latest ROR data and linking of three years legacy crop reporting data received from Food Supply & Consumer Welfare Dept. / P-PAS system.
- Mapping of village wise/ plot wise paddy crop reporting in cadastral maps using GIS based statistical analysis.
- Mapping of village level crop/ non-crop land using HRSI (~1m) of recent past.

- Ortho-Rectification, mosaicking and enhancement of Optical Satellite Image (3m MX) using appropriate enhancement techniques for Paddy crop identification/mapping at cadastral scale for months.
- Image analysis for Paddy crop identification (growth and harvesting) using supervised classification techniques/ AI & ML based algorithm.
- Integration of image derived Paddy crop information with Cadastral reported paddy crops and Validation of paddy crop
- Two (2) way Integration of the proposed GIS based Crop classification & Revenue generation System with P-PAS to share the following info.
 - Paddy cultivation details (farmer name, ID, village, khata no, kissam, plot no, plot area, area cultivated, irrigation details, etc.) shared by the farmer during the registration in the P-PAS system
 - Image verification details (district, tahsil, village, khata no, plot no, crop status, etc.)
 - Misreported plot wise locations/ shapefiles with plot details for access by mobile app for field verification
 - Field verification details with photographs captured from the mobile device for consumption and final confirmation in the geo-database.
- Identification of discrepancy between declared farming area with GIS verified farming area
- Crop season wise integration of village/ plot level crop validation data with the existing Web-GIS based Portal and Dashboard.
- Crop season wise integration of village/ plot level crop validation data with the existing mobile app, updating of geo-database with field validation data from mobile devices and technical support during field verification
- User Training for all district officials engaged for field verification and technical support to all district officials/ surveyors during field verification
- Assistance to ORSAC for data hosting and server-end maintenance of geo-spatial database, image repository, field photographs, web and mobile application
- Maintenance of Web application, mobile application, and database.

Note: Farmer reporting, past season validation, Cadastral data, ROR data, and Satellite images shall be provided by ORSAC & FS&CW department.

5. Workload

The quantum of Remote sensing and GIS based Village/ plot level analysis of paddy crop reported area in different crop seasons are given below.

Sl.	Crop Seasons*	District (Nos)	Area Coverage (Sq.km.)
1.	Kharif 2024-25	30	1,55,707
2.	Rabi 2024-25	17	86,875
3.	Kharif 2025-26	30	1,55,707
4.	Rabi 2025-26	17	86,875
5.	Kharif 2026-27	30	1,55,707
6.	Rabi 2026-27	17	86,875
7.	Kharif 2027-28	30	1,55,707
8.	Rabi 2027-28	17	86,875
9.	Kharif 2028-29	30	1,55,707

(* This is a repeat exercise for the crop seasons covered during 2021-22 to 2024-24)

The results of such analyses are to be integrated with existing Web GIS and Mobile application including operation support and maintenance of the applications for each crop season.

6. Scope of Work and Deliverables:

Kharif and Rabi Paddy crop procurement by Government of Odisha is a time bound exercise. Every year millions of farmers report paddy cultivation in millions of plots spread across the state that has 51,000+ villages in 315 tahsils. FS&CW department has implemented the P-PAS system to facilitate such reporting by farmers who are interested to sell their paddy crop to government availing the minimum support price (MSP) providing details of land on which they have cultivated the paddy crop.

Village wise plot level analysis of the paddy crop reported by farmers have been introduced to check genuineness of the farmer reporting. The task warrants thorough understanding of the procurement process and close coordination with ORSAC, FS&CW department and it's establishments. Further, the assignment involves large scale mobilization of infrastructure and highly skilled remote sensing, GIS and IT professionals with extensive domain experience to handle the large-scale data analysis, geo-spatial database generation, image analysis, quality checks, field checks, rule-based validations, field trainings, etc. for timebound delivery.

Time is the essence of the project, starting with past farmer reporting, to budling the data analysis models, to comparing the crop season reporting, to building the geospatial database,

to image analysis and deducing the probable misreporting, to field verification, to the final decision on the procurement has to happen well IN-TIME with ZERO delay.

Following enumerates the scope and deliverables of the work, which has to be completed for each crop season, as it is linked to the Token issue (to the farmer for selling paddy) and Procurement Calendar of the district.

Sl.	Scope of Work & Deliverables	Timeline
1.	Village/ plot level analysis of paddy crop reported area	T+30
1.1	Preparation of Geo-referenced Cadastral Base maps using HRSI Ortho-Image facilitated by ORSAC through Web Map Title Service.	
1.2	Village/ plot level mapping of paddy crop reported area using geo-referenced cadastral maps and latest RoR information (baseline information)	
1.3	Cadastral Plot updating (Updating of sub-plots as per the revised RoR and reported by Farmers).	
1.4	<p>Past reporting-based on Classification of plots (Ex.-Always Reported, Never Reported, At times reported, etc.) based on statistical analysis.</p> <ul style="list-style-type: none"> • KPI Modification as per the business requirement • Data definition & document preparation <ul style="list-style-type: none"> ○ Data understanding • Data extraction • Data cleaning & preparation • ETL run flow schedule • Data warehouse preparation & data modelling • Preparation of semantic layer in data warehouse <ul style="list-style-type: none"> ○ Preparation of fact table for each year transactional data • Modification of visualization and dashboard based on the KPI • Analysis of Server and IT requirement to cater inclusion of new districts and seasons • Publication of Dashboard (Workbook) 	
1.5	Village level delineation of Crop/ Non-crop land using high resolution satellite imagery (~1m) of recent past	
1.6	Submission of village wise crop/ non-crop classification based on analysis	
2.	Cadastral Mapping of Paddy Crop Reported areas	T+60

Sl.	Scope of Work & Deliverables	Timeline
2.1	Linking of geo-referenced cadastral plots with Village/ plot wise paddy crop reported	
2.2	Submission of village wise mapping of paddy crop reported plots	
3.	Optical HRSI Analysis for Paddy Crop areas	T+92
3.1	Pre-harvest Optical HRSI (Planet scope 3m MX) image processing and analysis which includes ortho-rectification, enhancement & using Supervised classification techniques (Data to be facilitated by ORSAC)	
3.2	Submission of District/Block wise crop classified image	
4.	Optical HRSI analysis for post-harvest data	T+120
4.1	Analysis of post-harvest Optical HRSI (Planet scope 3m MX), if required and validation of crop harvest, image processing and analysis which includes ortho-rectification, enhancement & using Supervised classification techniques (Data to be facilitated by ORSAC).	
4.2	Classification of plots into 'Valid Paddy crop' & 'Withheld' categories-based Planet optical HRSI, past reporting status & crop land use	
4.3	Analysis of Post-Harvesting optical image using AI/ML Techniques <ul style="list-style-type: none"> • Harvest confirmed in Optical (May) in the WITHHELD plots should be marked as VALID. • Remaining plots should be categorised as 'Suspect' for further action by District Administrator end 	
4.4	Submission of village wise maps showing plots reporting paddy crop and their validation status with plot schedule	
5.	2-way Integration with P-PAS System	T+120
5.1	The integration should be done through API (Application Programming Interface) or through web Services with external systems for validation and data consumption.	
5.2	Data Flow (P-PAS to GIS based Crop classification & Revenue generation System) <ol style="list-style-type: none"> a. Sharing information of the farming land declared by the farmer during the registration by P-PAS system b. Integration of P-PAS with following list of information. <ol style="list-style-type: none"> i.) Farmer Name ii.) Farmer ID iii.) Plot Area with GIS info 	

Sl.	Scope of Work & Deliverables	Timeline
	iv.) Farming Area	
5.3	<p>Data Flow (GIS based Crop classification & Revenue generation System to P-PAS)</p> <p>a. The GIS based Crop classification & Revenue generation System should share the details of the verified area against the plot</p> <p>i.) GIS based verification area/status (Full/ Part/ Nil)</p> <p>ii.) Crop status (Yes/ No);</p> <p>b. Apart from the GIS based verified land info, the web GIS system is required to share the discrepancy data list. The web GIS info of the land should help the P-PAS system for further processing and reporting.</p>	
5.4	System Integration with P-PAS for paddy crop authentication during farmer registration	
5.5	<p>Sharing the following information based on the integration to all the stake holders</p> <ul style="list-style-type: none"> • Sharing of Registration and Verified Land records with ORSAC • Pulling of Suspect Plots from Web GIS portal for two way updating in PPAS and web GIS portal. • Synchronization of Plots once surveyed in Mobile App • Mapping of Suspect Farmers for token readiness to sale paddy • Generation of SMS to Suspect farmers • Operation support for Mobile App for field users • Generation of token for farmers passed in Mobile Survey 	
6.	Data updating, modification and fine tuning of the existing Web-GIS Portal	T+150
6.1	<p>Generation of crop season wise</p> <p>a. Number of Registered Farmers</p> <p>b. Total area cultivated</p> <p>c. Discrepancy List map view</p>	
6.2	<p>Based on the GIS validated area, system should approve the farmer registration</p> <p>a. In case reported farming area matches with the GIS validated data, system should auto validate the entry and forward to token generation to the P-PAS system</p>	

Sl.	Scope of Work & Deliverables	Timeline
	b. In case reported farming area does not match with GIS validated area, system should flag the same records as discrepancy and forward the same for field verification	
6.3	Tagging the DRCS/ ARCS Offices to the society for field verification of the discrepancy land records	
6.4	Dashboard updating for each crop season	
6.5	Maintenance of the geospatial database and existing Web GIS application	
7.	Extension of Mobile Application for field verification	T+180
7.1	API integration for newly added plot information in the Mobile Application	
7.2	Mobile application Operation support during field validation	
7.3	Maintenance and bug fixing in mobile application	

NB: All the above works are to be carried out fresh for each crop season as per farmer reporting of the concerned crop season. However, the geo-referenced cadastral in a crop season may be reused in the next crop season.

7. Technical Specification for Web & Mobile Application

- a. The System is developed using Opensource Products, Tools and Technologies as far as practicable.
- b. All and Every Server Operating Systems: Unix / Linux 64 Bit (Ubuntu / CentOS / RHEL)
- c. Server-side General Purpose Coding Language: C or Java
- d. Geo-processing and AI / ML Server-side Coding Language: Python
- e. GIS Server: Geoserver / ArcGIS Advance Server
- f. DB: PostgreSQL (Community Edition)
- g. Frontend Coding Language: Javascript
- h. Mobile Apps: For iOS it is native Swift compiled on Xcode & For Android it is Java or Kotlin. No Hybrid mobile development framework shall be used.
- i. All modules shall be on Modular Design workflow and on a microservice architecture.
- j. All codes on ORSAC's GITLAB
- k. Primary hosting will be on AWS / Google Cloud
- l. DR & Backup and Mirroring will be at SDC / ORSAC
- m. No Microsoft Windows components or dependencies shall be used in any possible form in this Application.
- n. There shall be no use of. Net or PHP in this Application.

8. Project Time Period:

- a. The project execution period shall be six months from the date of commencement of seasonal paddy crops for 9 (nine) future crop seasons covering 5 (five) financial years, i.e., from financial year 2024-25 to 2028-29.
- b. The contract may be extended subject to project continuity by Govt. of Odisha with ORSAC and Service Provider's performance. Such extension when decided shall be based on mutually accepted terms and conditions between ORSAC and the Service Provider. Price escalation after FY 2028-29, to counter inflation, shall be evaluated as per Wholesale Price Index (WPI).

9. Minimum SLAs by the Service Integrator:

Time is the essence of the project. All desired services from the system integrator needs to be delivered well in time as the final output is consumed for issuing tokens to the farmer for selling paddy as per Procurement Calendar of the district. Therefore, the project demands highest service levels from the SI.

The service levels to be established for the Services offered by the SI to the State. The SI shall monitor and maintain the stated service levels to provide quality service to the State.

Definitions:

- a. "Schedule Maintenance Time" shall mean the time that the System is not in service due to schedule activity as defined in this SLA. The scheduled maintenance time would not be during 16x6 timeframe. Further, schedule maintenance time is planned downtime with the prior permission of the ORSAC.
- b. "Schedule Operation Time" means the scheduled operating hours of the system for the month. All scheduled maintenance time on the system would be deducted from the total operation time for the month to give the scheduled operation time. The total operation time for the systems and applications within the Primary DC, DRC and critical client site infrastructure will be 24x7x365.
- c. "System or application Downtime" means accumulated time during which the System is totally inoperable within the Scheduled Operation Time but outside the scheduled maintenance time and measured from the time the State and /or its employees log a call with the SI team of the failure, or the failure is known to the SI from the availability measurement tools to the time when the System is returned to proper Operation.
- d. "Availability" means the time for which the services and facilities are available for conducting operations on the state system including application and associated infrastructure. Availability is defined as: $\{(Scheduled\ Operation\ Time - System\ Downtime) / (Scheduled\ Operation\ Time)\} * 100\%$
- e. "Helpdesk Support" shall mean the 12x7 basis support centre which shall handle Fault repairing, Trouble Ticketing and related enquiries during this contract.



- f. The System may be Further Supported and maintained by the Bidder beyond one year under an AMC as per the requirement of ORSAC and FS & CW Department based on the percentage of total development cost mentioned in Commercial Proposal (CF-2).
- g. Resolution of all Issues pertaining with Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha excluding the Hardware issues and due to act of God, must be within 24 Hours.
- h. On a quarterly basis, the Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons System Availability should be an average minimum of 99.00% up time, excluding the unavoidable Server & NW Maintenance. Failure more than 99.00% of the up time, barring causes due to act of God, shall lead to a penalty of Rs. 1000/ day of failure on the SP.

10. Instructions to Bidders:

10.1 GENERAL

All Deliverables shall be strictly as per the Logic and Rationale of the Scope of the Works as defined in the Section 6.

10.2 DEFINITIONS:

In this document, the following terms shall have following respective meanings: -

- "ORSAC" means Odisha Space Applications Centre, Bhubaneswar
- "Acceptance" means the ORSAC's written certification that following installation, the system(s) (or specific part thereof) has been tested and verified as complete and/or fully operational, in accordance with the acceptance test defined in the Acceptance Test Documents.
- "Acceptance Test Documents" means a mutually agreed document which defines procedures for testing the functioning of the Proposed Application, against requirements laid down in the agreement. It should define tests to be carried out, test equipment and expected test results.
- "Contract Agreement" means the Agreement to be signed by the Bidder and Odisha Space Application Centre (ORSAC).
- "Authorized Representative" shall mean any person/agency authorized by either of the parties.
- "Bidder/ System Integrator" means any bidder or bidder offering the solution(s), service(s) and/ or materials asked for in the RFP.
- "Contract" is used synonymously with agreement.



- "Documentary evidence" means any matter expressed or described upon any substance by means of letters, figures or marks intended to be used for the recording of that matter and produced before a court.
- "Gov. /GoO/Government/Govt. of Odisha" shall mean Government of Odisha.
- "Go-Live / System Go-Live" Shall mean that the successful development and commissioning of the Geo-portal with all the Applications at ORSAC provided Servers and Storages i.e. designing, development, testing and implementation and hosting of the Geo-Portal and all Applications as per the scopes and deliverables. This implies the software can now be used by all the end users together as will be defined in the detailed Software Requirement Specifications document. For successful Go- Live, issuance of Acceptance certificate is required from ORSAC.
- "SP" Shall mean Service Provider (Bidder who will be selected through this RFP).
- "SI" Shall mean System Integrator who will be selected through this RFP.
- "Law" shall mean any Act, notification, bye law, rules and regulations, directive, ordinance, order or instruction having the force of law enacted or issued by the Government of India or State Government or regulatory authority or political sub-division of government agency.
- "Lol" means Letter of Intent which shall constitute the intention of the RFPper to place the purchase order with the Bidder.
- "Party" shall mean ORSAC or Bidder individually and "Parties" shall mean ORSAC and Bidder collectively.
- "PBC" means Pre-Bid Conference.
- "Rates/Prices" means prices of supply of equipment and services quoted by the SI in the Commercial Bid submitted by him and/or mentioned in the Contract.
- "RFP" means Request for Proposal which is the detailed notification seeking a set of solution(s), service(s), materials and/or any combination of them.
- "Services" means the work to be performed by the Bidder pursuant to this Contract, as detailed in the Scope of Work
- "Site" shall mean the location(s) for which the Contract has been issued and where the service shall be provided as per Agreement.
- "Incidental services" shall mean for the purpose of the project activities which have dependencies on the activities mentioned in the scope of work for the Bidder, for example coordination with different stakeholders, logistic support as required for installation and commissioning etc.

- “Bidder” shall mean organisations registered under Indian Companies Act/Partnership / consortium member.

10.3 COMPLETENESS OF THE RFP DOCUMENT

- Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
- Failure to comply with the requirements of this paragraph or any clause of the RFP document may render non-compliant and the RFP document may be rejected. Bidders must:
 - Include all documentation specified in this RFP document;
 - Follow the format prescribed in this RFP document and respond to each element in the order as set out in this RFP document.
 - Comply with all requirements as set out within this RFP document.

10.4 PRE-BID QUERIES

Bidders are requested to submit their queries by e-mail (One Mail-ID Per Bidder is allowed to submit the query only), to orsac.od@nic.in and mark a copy to orsac2012@gmail.com as per the format attached in excel format on or before 29-01-2024, 05.30 PM. Failure to submit the queries in the asked format will result in rejection of queries. If same bidder submits the query in multiple mail ids, then the bidder’s query will be rejected.

Pre-bid queries of the bidders, who have deposited the tender document fee in shape of DD in favour of “Chief Executive, Odisha Space Applications Centre (ORSAC) Payable at Bhubaneswar” on any nationalized bank, and have shared the scanned copy of the demand draft along with their pre-bid queries in the specified format shall be accepted. Such bidders can submit the queries as per the format given in the tender document. Tendering authority shall respond to the queries of only those bidders who have shared the tender document fee copy before the Pre-Bid date. The scan copy of the receipt of Tender fees, Bidder’s name and GST No should be enclosed in the Pre-bid Query. The Pre-Bid meeting will be held in VC mode.

10.5 PRE-BID QUERIES, CLARIFICATIONS AND AMMENDMENTS

- a. The Nodal Officer mentioned in the RFP document will endeavor to provide timely response to all queries. However, ORSAC makes no representation or warranty as to the completeness or accuracy of any response made in good faith, nor does ORSAC undertake

to answer all the queries that have been posed by the applicants. The responses to the queries from all applicants will be shared by ORSAC through e-mail.

- b. At any time prior to the last date for receipt of RFP, ORSAC may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective applicant, modify the RFP Document by a corrigendum.
- c. The Corrigendum (if any) & clarifications to the queries from the prospective bidders will be published at official website of ORSAC and e-Nivida portal.
- d. Any such corrigendum shall be deemed to be incorporated into this RFP.

The tendering authority reserves the right not to respond to any/all queries raised or clarifications sought if, in their opinion and at their sole discretion, they consider that it would be inappropriate to do so or do not find any merit in it.

10.6 PREPARATION OF RFP DOCUMENT:

Cost incurred for preparation of RFP document: - Bidder shall bear all costs associated with the preparation and submission of the RFP including surveys and ORSAC will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the RFP process.

Language of proposal: - The proposal prepared by the Bidder, as well as all correspondence and documents relating to the RFP exchanged between the Bidder and ORSAC shall be in English. Information supplied in other language shall be rejected.

Bid currency: - Prices for services offered shall be quoted in Indian National Rupees (INR) only.

Correction of errors: - The person signing the bid must initial erasures or other corrections. The Bidder further agrees that in the event of any obvious errors, ORSAC reserves the right to waive such errors in its sole discretion. However, ORSAC has no obligation under any circumstances to waive such errors.

Proposal validity:

- The bid shall remain valid for 180 days from the actual date of Financial Bid Opening. Bidder should ensure that in all circumstances, its Bid fulfils the validity condition. Any bid valid for a shorter period shall be rejected as non-responsive.
- In exceptional circumstances, ORSAC may solicit Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing or by mail.

Lack of information to Bidder: The Bidder shall be deemed to have carefully examined RFP document to his entire satisfaction. Any lack of information shall not in any way relieve the Bidder of his responsibility to fulfil his obligation under the RFP.

10.7 SUBMISSION OF PROPOSALS

- a. The bidders shall submit their RFP bid document as per the format given in this RFP document through on-line mode through <https://enivida.odisha.gov.in> , in the following manner:
 - General (Pre-qualification Proposal) - in first cover
 - Technical Proposal- in second cover
 - Commercial Proposal - in third cover
- b. The response to Pre-Qualification, Technical bid and Price Bid (As mentioned in point-a) should be covered in separate sealed envelopes super-scribing “Pre-Qualification Bid”, “Technical Bid” and “Price Bid” respectively.
- c. Please Note that Prices shall not be indicated in Pre-Qualification & Technical bid but shall only be indicated in the Price Bid.
- d. All the pages of the RFP bid must be sequentially numbered and must contain the list of contents with page numbers and Flag Marks. Any deficiency in the documentation may result in the rejection of the bid.
- e. The original bid shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the bidder itself. Any such corrections must be initialed by the person (or persons) who sign(s) the tender paper.
- f. All pages of the bid shall be initialed and stamped by the person who signs the bid.
- g. The bidder shall attach a content page to the bid document highlighting the page numbers/ Flag Marks where each document is available without which the bid will be rejected.
- h. There may not be physical meeting held at ORSAC for opening of Per-Qualification, Technical and Price Bids. It is important to note that while submitting Bids through on-line mode i.e. <https://enivida.odisha.gov.in> the Mail ID and Mobile Number (with WhatsApp) of the Authorized person of the bidder should be written in bold letters so that in case of Opening of bids in VC, the web link will be issued to the Mail ID mentioned in the bid documents.

10.8 DOCUMENT COMPRISING THE BIDDER'S PROPOSAL:

A. GENERAL (PRE-QUALIFICATION) PROPOSAL

The General (pre-qualification) Proposal (First Cover) of the bidder (with proper page number) shall contain the following:

Sl.	Pre-qualification Criteria	Desired Documents
1.	The bidders must be Registered under Indian Companies Act/Partnership act	Bidder Registration Certificate.

Sl.	Pre-qualification Criteria	Desired Documents
	and have existence for a minimum period of 10 years.	
2.	Earnest Money Deposit (EMD)	Demand Draft (Scanned copy to be uploaded online and original to be submitted before opening of General & Technical Bid)
3.	The bidders should have at least ISO 27001:2013 certification on Information security and ISO 9001:2015 Quality Certification.	Valid ISO Information Security and Quality Certificate.
4.	The Bidder have Annual Average Turnover of Rs 10 Crore (Rupees Ten Crore only) last three financial years. (FY 2022-23, 2021-22 & 2020-21). The financial statement should reflect turnover.	Copies of audited Balance Sheet, Profit & Loss account and Auditor Certified Turnover statement indicating revenue for last 3 years must be enclosed as supporting.
5.	The bidders Should have a Physically Verifiable & Full-fledged Registered Business Office in Odisha.	Detail of Business Premise address, landline Telephone Number, Geo-tagged Photos, and necessary legal documents etc. are to be provided to prove its existence.
6.	Bidders should have a valid Odisha Registered GST Number (OGSTN).	OGSTN Details of Bidder (OGSTN Registration Certificate) should be submitted.
7.	Bidders should have valid IT Return for last 3 financial years (FY 2022-23, 2021-22 & 2020-21)	Copy of IT return for last 3 Financial Years (2022-23, 2021-22 & 2020-21)
8.	Bidders should have valid Provident Fund Registration Certificate.	Copy of Provident Fund Registration Certificate along with copy of latest Provident Fund Return Certificate.
9.	Bidders should have valid ESI Registration Certificate or Employee	The bidding organizations must submit copy of their ESI Registration along with

Sl.	Pre-qualification Criteria	Desired Documents
	Group Insurance Certificate as Applicable.	copies of last Annual Return and/or copy of Group Insurance certificate
10.	Bidders should have experience in Cadastral level Mapping for Govt. of India or any Indian state Govt. Organization	Copies of Work Orders / Agreement / Completion Certificate
11.	Bidders should have experience in Live Enterprise Class GIS/ MIS based Application for Govt. of Odisha	Copies of Work Orders / Agreement / Completion Certificate
12.	Bidders should have minimum 30 (thirty) numbers of IT/ GIS professional on a regular payroll.	Copy of EPF & ESI Registration Certificate & latest return shall be submitted
13.	Consortium Bid is Allowed, limited to two parties (including prime bidder). There shall be a main Bidder, called as Prime Bidder, who shall be responsible for the delivery of all the components of the Project. The Prime Bidder will sign all the legal documents on behalf of the Consortium Bidder with ORSAC.	The Prime Bidder shall provide the information of Consortium Bidder participating in the Project and their legal binding document to CE, ORSAC for the Project Period (including the warranty). The Component of work to be carried out by the Bidders in the Consortium.
14.	The bidders should not have been blacklisted / banned by any Central / State Government (Central / State Government and Public Sector) and any Court of Law or under a declaration of ineligibility for corrupt or fraudulent practices as on date of Bid Submission.	Notarised Affidavit to this effect to be submitted by Bidder

B. TECHNICAL PROPOSAL

The technical proposal of the Bidder (WITH PROPER PAGE NUMBER) shall contain detailed description on the approach and methodology on the system developments to achieve the desired objectives as specified in this document wherein the Bidder shall describe in detail, the

required services and articulate how the technical solution shall meet the requirements within the scheduled timeline as specified in this RFP document. The technical proposal shall also include the following: -

- Detailed Approach & Methodology to execute the assignment.
- Project governance structure describing project management processes, methodologies and procedures, risk, and issues management. escalation mechanism, including team structure, capability, and resource deployment plan.
- Collaborative mode work assignment with the ORSAC Geo-ICT team.
- Weekly review of the work progress.
- Detailed quality assurance processes, procedures, formal review to be adopted.
- Proposed solution that meets the requirements specified in scope of work.
- Security capabilities of proposed solution architecture covering authentication, authorization, audit trail intrusion prevention and overall alignment to the Govt. of Odisha's security policies and best practices.
- Proposed solution addressing scalability, availability, performance, security & manageability.
- Approach for business continuity & disaster recovery.
- Bidder's experience provided in the format specified.
- Proposed solution on monitoring resource utilization in real time.
- Proposed solution on automated configuration management with effective build and release process.
- Proposed Backup Recovery Strategy defining back-up window, periodicity and incidence response and recovery-restoration and disk management.
- Proposed data retention and archiving policy.
- Risk management strategy on backup and recovery, network and security infrastructure.

C. COMMERCIAL PROPOSAL:

Unless expressly indicated, Bidder shall not include any technical information regarding the services in the commercial proposal. Prices shall be quoted entirely in Indian Rupees (INR) and must be arrived at after including all expenses, rates, and taxes.

The commercial Proposal must include the total price for all services scoped in the Proposal. To be deemed responsive to this RFP Document, Bidders must complete in detail all the Commercial Proposal Forms provided in this document.

Bidders are suggested not to use - '**To Be Determined**' or similar annotations in the cells for cost estimates. It is suggested that the Bidders need to specify prices for all categories.

BID SECURITY/ EMD:

- a. Bidders shall submit, along with their Bids, EMD of Rs. 25,00,000/- (Rupees twenty-five lakhs) in the shape of Bank Draft issued by any nationalised bank in favor of Chief Executive, Odisha Space Applications Centre payable at Bhubaneswar and should be

- valid for 90 days from the due date of the tender / RFP. Scanned copy of The EMD should be uploaded on-line as a part of the General Bid. EMD in Original to be submitted to Nodal Officer, ORSAC before opening of the General and Technical Bid.
- b. EMD of all unsuccessful bidders would be refunded by ORSAC within 60 days of the bidder being notified as being unsuccessful. The EMD, for the amount mentioned above, of successful bidder would be returned upon submission of Performance Bank Guarantee.
 - c. The EMD amount is interest free and will be refundable to the unsuccessful bidders without any accrued interest on it.
 - d. The bid / proposal submitted without EMD, mentioned above, will be summarily rejected.
 - e. The EMD may be forfeited:
 - If a Bidder withdraws the Proposal or increases the quoted prices after opening of the Proposal and during the Bid validity period.
 - In case, the successful Bidder fails to sign the agreement in accordance with Terms and Conditions (including timelines for execution of the Agreement) of this RFP or fails to furnish Performance Bank Guarantee in accordance with the Terms and Conditions (including timelines for furnishing Performance Bank Guarantee)
 - If a Bidder withdraws its bid during the period of bid validity.
 - During the Bid process, if a Bidder indulges in any act that would jeopardize or unnecessarily delay the process of bid evaluation and finalization.
 - If a Bidder has been found to have indulged in any suppression of facts, furnishing of fraudulent statement, misconduct, or other dishonest or other ethically improper activity, in relation to this RFP.
 - If a Bidder's proposal contains deviations, conditional offers and partial offers.
 - f. The local bidders registered under MSME (local MSMEs) are exempted from submission of EMD. However, they must upload scanned copy of their MSME registration certificate along with the General Bid.

POWER OF ATTORNEY:

The Bidder must submit a power of attorney duly signed by a notary public confirmation the authority of the authorized representative of the Bidder to sign and act in all matters concerning the offer. In case of Consortium Bid, the Lead Bidder shall be responsible for the execution of the Project and delivery of the deliverables as per the scopes and deliverables of the Project. The Power of Attorney shall mention clearly about the responsibility of the Lead Bidder relating to the execution of the Project.

ADDRESS FOR COMMUNICATION

The detail address for communication with ORSAC for this project is as follows:



Sri P.K. Parida, Scientist 'F',
Odisha Space Applications Centre (ORSAC),
Dept. of Science and Technology,
Govt. of Odisha,
Plot no.45/48, Jayadev Vihar, Near GAA,
Unit- 16, Bhubaneswar-751023, Odisha
Phone: +91-6 74-2303625, Cell: 9437284890.
Email: orsac.od@nic.in / orsac2012@gmail.com

LATE BID:

- a) Bids received after the due date and the specified time (including the extended period if any) for any reason whatsoever, shall not be entertained.
- b) The bids submitted by telex/telegram/fax/e-mail etc. shall not be considered. No correspondence will be entertained on this matter.
- c) ORSAC shall not be responsible for any delay or non-receipt/ non-delivery or the documents. No further correspondence on the subject will be entertained.

MODIFICATION AND WITHDRAWAL OF BID:

Bids once submitted cannot be modified in any circumstances. Withdrawal of a Bid during this interval may result in the Bidder's forfeit me of its Bid security/EMD and /or any other action as per law.

RIGHT TO ACCEPT AND REJECT ANY OR ALL BIDS:

ORSAC reserves the right to accept or reject any proposal and to annul the tendering process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the ORSAC action. Incomplete bid will be straightaway rejected by ORSAC.

11. Bid Opening, Evaluation & Award of the Works:

ELIGIBILITY CRITERIA:

The Bidders intend to participate in the RFP for the **“Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II”** must meet the following minimum Eligibility criteria, failing which Bidders will not qualify for the RFP. The Eligibility Criteria of the Bidders for bidding are strictly as under:



Sl.	Eligibility Criteria	Desired Documents
1.	The bidders must be Registered under Indian Companies Act/Partnership act and have existence for a minimum period of 10 years.	Bidder Registration Certificate.
2.	Earnest Money Deposit (EMD)	Demand Draft (Scanned copy to be uploaded online and original to be submitted before opening of General & Technical Bid)
3.	The bidders should have at least ISO 27001:2013 certification on Information security and ISO 9001:2015 Quality Certification.	Valid ISO Information Security and Quality Certificate.
4.	The Bidder have Annual Average Turnover of Rs 10 Crore (Rupees Ten Crore only) last three financial years. (FY 2022-23, 2021-22 & 2020-21). The financial statement should reflect turnover.	Copies of audited Balance Sheet, Profit & Loss account and Auditor Certified Turnover statement indicating revenue for last 3 years must be enclosed as supporting.
5.	The bidders Should have a Physically Verifiable & Full-fledged Registered Business Office in Odisha.	Detail of Business Premise address, landline Telephone Number, Geo-tagged Photos, and necessary legal documents etc. are to be provided to prove its existence.
6.	Bidders should have a valid Odisha Registered GST Number (OGSTN).	OGSTN Details of Bidder (OGSTN Registration Certificate) should be submitted.
7.	Bidders should have valid IT Return for last 3 financial years (FY 2022-23, 2021-22 & 2020-21)	Copy of IT return for last 3 Financial Years (2022-23, 2021-22 & 2020-21)
8.	Bidders should have valid Provident Fund Registration Certificate.	Copy of Provident Fund Registration Certificate along with copy of latest Provident Fund Return Certificate.

Sl.	Eligibility Criteria	Desired Documents
9.	Bidders should have valid ESI Registration Certificate or Employee Group Insurance Certificate as Applicable.	The bidding organizations must submit copy of their ESI Registration along with copies of last Annual Return and/or copy of Group Insurance certificate
10.	Bidders should have experience in Cadastral level Mapping for Govt. of India or any Indian state Govt. Organization	Copies of Work Orders / Agreement / Completion Certificate
11.	Bidders should have experience in Live Enterprise Class GIS/ MIS based Application for Govt. of Odisha	Copies of Work Orders / Agreement / Completion Certificate
12.	Bidders should have minimum 30 (thirty) numbers of IT/ GIS professional on a regular payroll.	Copy of EPF & ESI Registration Certificate & latest return shall be submitted
13.	Consortium Bid is Allowed, limited to two parties (including prime bidder). There shall be a main Bidder, called as Prime Bidder, who shall be responsible for the delivery of all the components of the Project. The Prime Bidder will sign all the legal documents on behalf of the Consortium Bidder with ORSAC.	<p>The Prime Bidder shall provide the information of Consortium Bidder participating in the Project and their legal binding document to CE, ORSAC for the Project Period (including the warranty).</p> <p>The Component of work to be carried out by the Bidders in the Consortium.</p>
14.	The bidders should not have been blacklisted / banned by any Central / State Government (Central / State Government and Public Sector) and any Court of Law or under a declaration of ineligibility for corrupt or fraudulent practices as on date of Bid Submission.	Notarised Affidavit to this effect to be submitted by Bidder

BID EVALUATION

Successful delivery of the project within the allotted time and cost demands a Geo-ICT team of professionals with relevant experience and a local geospatial data management infrastructure to handle the large-scale data analysis, geo-spatial database generation, image analysis, quality checks, field checks, rule-based validations, field trainings, etc., maintaining a close coordination with ORSAC and FS&CW department, Odisha. Accordingly, the bids shall be evaluated based on combined **Quality and Cost Based Selection (QCBS)** method.

Evaluation of Technical Bid

The Bids submitted up to last date will be opened at ORSAC by the Chief Executive, ORSAC or any other officer(s) authorized by ORSAC, in the presence of such of those Bidders or their representatives who may choose to be present at the time of opening. The representatives of the Bidder are advised to carry a letter of authority from the bidding bidders for attending the Bid opening.

The Evaluation Committee will check the submission as per the criteria. Those are selected after the check shall be called for a Technical Presentation. The committee will evaluate the technical bids as per the "Tech Score Criteria" mentioned in the following table. The technical presentation will be of approximately 15 minutes duration. Evaluation of the technical presentation shall be conducted by the evaluation committee and shall be based on Bidder's similar past experience in satellite image-based validation of agricultural crop at cadastral level over large geographies in India, proof of concept, availability of local infrastructure & techno-managerial capacity.

ORSAC may also seek written clarifications from the Bidder soon after the bids submitted by them, during the evaluation process. The primary function or clarifications in the evaluation process is to clarify ambiguities and uncertainties. if any, arising out of the evaluation of the bid documents.

Sl.	Technical Score criteria	Max Mark	Scoring Criteria
1.	The bidders must have Annual Average Turnover of Rs. 10 Crores (Rupees Ten Crore only) last three financial years. (FY 2022-23, 2021-22 & 2020-21). The financial statement should reflect turnover. <i>Auditor certified turnover statement and net worth for FY 2022-23, FY 2021-22 & FY 2020-21 in original along with</i>	15	i. 10 Crore to 15 Crores (Five) Marks ii. 15 Crores to 20 Crores: 10 (Ten) Marks. iii. 20 Crores and Above: 15 (Fifteen) Marks.

Sl.	Technical Score criteria	Max Mark	Scoring Criteria
	<i>balance sheet and profit and loss account for the said Financial Years to be submitted.</i>		
2.	<p>The bidders should Employing Minimum 30 Numbers of IT & Geoinformatics professionals on regular payroll, valid ESI Numbers/ Group Insurance Certificate.</p> <p><i>Copy of EPF/ESI Registration/ Group Insurance Certificate with latest return listing personnel name to be submitted</i></p>	10	<p>For IT Professional:</p> <ul style="list-style-type: none"> i. 10 To 20 Professionals: 2 (Two) Marks ii. 21 To 30 Professionals: 3 (Three) Marks iii. >30 Professionals: 5 (Five) Marks <p>For GIS & Remote Sensing Professional:</p> <ul style="list-style-type: none"> i. 20 To 30 Professionals: 2 (Two) Marks ii. 31 To 40 Professionals: 3 (Three) Marks iii. >40 Professionals: 5 (Five) Marks
3.	<p>Past similar experience in digital image processing using Optical satellite data and satellite image-based validation of agricultural crop at cadastral level (village, plot level) for a minimum area of 50,000 sq.km. in any crop season for any state government/ central government in India for a value not less than Rs.10 crore</p> <p><i>Copies of supporting work order and completion certificate to be submitted</i></p>	10	<ul style="list-style-type: none"> i. 50000-75,000 Sq.Km: 2 marks, ii. 75,001-1,00,000 Sq.Km.:5 marks, iii. More than 1,00,000 Sq.Km: 10 marks.
4.	<p>Past experience in Cadastral GIS mapping (1:4000 scale) for any State govt. organization in India. Preference</p>	15	<ul style="list-style-type: none"> i. Less than 10,000 sq.km: 4 (four) marks, 1 additional mark for project executed in Odisha.

Sl.	Technical Score criteria	Max Mark	Scoring Criteria
	shall be given for such works done in Odisha <i>Copies of supporting work order/ completion certificate to be submitted</i>		ii. 10,000 to 50,000 sq.km: 8 (Eight) marks, 2 additional marks for project executed in Odisha. iii. More than 50,000 sq.km: 12 (twelve) marks, 3 additional marks for projects executed in Odisha
5.	The bidders should have completed Development & Commissioning of Live Enterprise Class GIS/ MIS Application for Govt. of Odisha. <i>Copies of supporting work order/ completion certificate to be submitted</i>	15	i. 50 Lakhs to 02 Crores: 10 (Ten) Marks ii. More than 02 Crores: 15 (Fifteen) Marks.
6.	The bidders should have Quality Certification for GIS & IT services <i>ISO 9001, ISO 27001, CMMI 3 or above in GIS and IT services</i>	10	i. Valid CMMi Level 3 or above certification: 4 Marks ii. Valid 27001:2013 certification: 3 marks iii. Valid ISO 9001:2015 certification: 3 marks
7.	Technical Presentation, broadly covering the aspect of: <ul style="list-style-type: none"> Bidder's similar past experience in satellite image-based validation of agricultural crop at cadastral level over large geographies in India Proof of concept Availability of local infrastructure & techno-managerial capacity 	25	It is to be awarded by Technical Evaluation Committee members and it will be the arithmetic average of all marks awarded by the Tech Committee members.
	Total Technical Marks / Scores	100	

The Bidder / bidder scoring a minimum of 60 marks out of 100 in the Technical Bid Evaluation process, shall be declared as the Technically Qualified Bidder. The Financial bids shall be opened only for the Technically Qualified Bidders.

Evaluation of Price Bid:

The price bids shall be opened only for the Technically Qualified Bidders on the scheduled dates as mentioned in the RFP. The authorized representatives of the Technically Qualified Bidders may be present during the price bid opening process. The price bids shall be scrutinized for their conformity to the specified formats and signatures. The price bids not in specified format and/or not with signature of the authorized representatives shall be summarily rejected. Scrutiny and evaluation of the price bids shall be conducted as follows.

In the event of difference between the price mentioned in figures and words, the price in words shall be considered valid and binding.

Scrutiny and evaluation of the price bids shall be conducted based only on the following criteria:

- The estimated price of the project excluding GST/other tax components is as follows:
 - Estimated unit rate for executing village wise plot level analysis of paddy for the repeating areas (district covered for second season crop onwards) for 30 (thirty) districts during Kharif Crop Season and 17 (seventeen) districts during Rabi Crop Season is **Rs. 1,565/- per sq. km**
 - Estimated crop season wise incorporation of plot level image validation results in the developed Web GIS Portal with Dashboard facility for querying, analysis and visualization of Paddy Verification including maintenance of geo-database and developed web application is **Rs.12,00,000/-**
 - Estimated crop season wise configuration of village and plot wise suspect plots in the Mobile Utility for Tracking & Monitoring, support to field validation team and maintenance of the android mobile application is **Rs.15,00,000/-**
- The Total bid price (i.e., Quoted Price or QP) derived from quoted unit rates by the bidder and quantum of work (sq.km. of areas as per workload enumerated at Section 5) including Tax, will be considered for price evaluation. There shall be no component-wise evaluation of the bids.
- Abnormally low quotes, 'below 80% of the estimated price' (EP-20%) shall be treated as unviable from quality and feasibility considerations and shall be summarily rejected.
- If a Technically qualified bid is quoted with a price below 90% of the estimated price (i.e., EP - 10%) and in order to consider it for financial evaluation, it must accompany an additional performance security equal to the shortfall amount in form of a Bank Guarantee (GF5) issued from a Nationalized bank in favour of Chief Executive, ORSAC Odisha, valid for a period of 5 years from opening of the Bid. It shall be claimed by CE, ORSAC as an unconditional forfeiture to the Govt. exchequer, if the bidder fails to execute the project as per the terms and conditions of the agreement of the execution of the work. Such additional Performance Security (BG) shall be

produced in original at the time of opening of bidder's financial bid, without which the financial bid shall be considered frivolous and summarily rejected.

Thus, if the quoted price by the bidder (QP) goes below 90% of the estimated price (EP) indicated in this RFP, the value of additional security shall be = 0.9 EP – QP.

Scrutiny and evaluation of the Financial Bids shall be carried out as per the following guidelines:

- In the event of difference between the price mentioned in figures and words, the price in words shall be valid and binding.
- Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the Bidder does not accept the correction of the errors; its RFP will be rejected.
- Totaling of the itemized price quoted will be done if not carried out. Total price will be treated as bid price.
- Any discrepancy relating to prices quoted in the offer across different sections of the bid, only prices given in the prescribed format of this RFP shall prevail.

Scores of the Commercial Evaluation would be weighed prorata on a scale of 100. The Bidder with the lowest commercial quote shall be awarded 100 marks. The marks obtained by the bidders in the Financial Bid evaluation shall be considered as Financial Score (FS). The Financial Score of the other Technically Qualified Bidders shall be computed as per the following formula:

$$FS=100 \times (Fmin/Fb)$$

Where:

FS = Financial Score for the bidder under consideration

Fmin = minimum price quoted by any bidder

Fb = price quoted by the bidder

The Technical Score (TS) and the Financial Score (FS) secured by each bidder shall be subjected to the Technical Weightage WT= 0.70 (the weight given to the technical proposal) and Financial Weightage WF = 0.30 (the weight given to the financial proposal).

The Combined Technical and Financial Score (S) for the bidder (s) shall be computed as per the following formula.

$$S = (TS \times 0.7) + (FS \times 0.3)$$

DISQUALIFICATION:

The proposal is liable to be disqualified in the following cases or in case Bidder fails to meet the bidding requirements as indicated in this RFP Document

- Proposal not submitted in accordance with the procedure and formats prescribed in this document or treated as non-conforming proposal.
- The Bidder qualifies the proposal with his own conditions.
- Proposal received in incomplete form.
- Proposal received after due date and time.
- Proposal not accompanied by all the requisite documents.
- Information submitted in technical proposal is found to be mis represented, incorrect or false, accidentally, unwittingly or otherwise, at any time during the processing of the contract (no matter at what stage) or during the tenure of the contract including the extension period, if any.
- Bids not submitted with required certification.
- Commercial proposal enclosed with the same envelope as technical proposal.
- Bidder trying to influence the proposal evaluation process by unlawful, corrupt or fraudulent means at any point of time during the bid process.
- In case any one party submits multiple proposals, the bids are likely to be disqualified, unless additional bids are withdrawn upon notice immediately.
- Any deviations between technical and commercial proposals shall make the proposal as being unresponsive and may lead to disqualification of the proposal.

Bidders may specifically note that while evaluating the proposals. if it comes to ORSAC's knowledge expressly or implied, that some Bidders may have colluded in any manner whatsoever or otherwise joined to form an alliance resulting in delaying the processing of proposal, then the Bidders so involved are liable to be disqualified for this contract as well as prohibited from participation in any of the RFPs floated by ORSAC in future.

AWARD OF CONTRACT:

ORSAC will award the Contract to the successful Bidder having the best proposal with respect to the above-mentioned evaluation criteria.

- ORSAC will notify the successful Bidder / bidder in writing for finalizing the contract conditions. The successful Bidder will be asked to sign the Contract Agreement within 10 days of the notification. After signing of the Contract Agreement, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties. If ORSAC is unable to finalize a service agreement with the Bidder ranked first, it may proceed to the next ranked Bidder with a due negotiation, but it is the sole discretion of the ORSAC only. However, ORSAC has no obligation under any circumstances to move to the next Bidder.
- Prior to the expiry of the validity period, ORSAC will issue LoI (Letter of Intent) to the successful

Bidder confirmation the acceptance of proposal. The notification of award will constitute the formation of the contract. Upon the successful Bidder's furnishing of Performance Bank Guarantee, ORSAC will promptly notify each unsuccessful Bidder and return their Bid Security.

- On issuance of the Letter of Intent (Lol) by ORSAC, the Bidder has to confirm its acceptance within seven days of its issuance and signing of agreement within 15 days of notification, failing which the ORSAC reserves the right to take appropriate disciplinary actions including forfeiture of EMD.
- ORSAC may also like to reduce or increase the quantity of any item in the Scope of Work defined in the RFP. Accordingly, total contract value may change on the basis of the rates defined in the financial proposal.
- The above unit rates shall remain valid subject to the approval of FS & CW, department, Govt. of Odisha. If there is any change in the unit prices, the same shall be accepted to the selected vendors.

12. General Terms & Conditions

12.1 Bid Validity Period

The Bid submitted by the bidder shall remain valid for 180 days from the date of opening of the Financial Bid. Bids with validity period less than 180 days shall be treated as non-responsive and shall be rejected.

12.2 Corrupt / Fraudulent Practices

The Bidder is expected to observe highest standards of ethics during the procurement and execution of the assignment. In pursuance of this policy, the RFP defines the terms set forth as follows:- "Corrupt Practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of the public official in the procurement process or in contract execution; and "Fraudulent Practice" means a misrepresentation of facts, in order to influence a procurement process or execution of a contract to the detriment of the Client, and includes collusive practice among Bidders (prior to or after bid submission), designed to establish bid prices at artificial non-competitive levels and to deprive the Client of the benefits of the free and open competition. In case the Bidder is found to be engaged in Corrupt/ Fraudulent practices before the contract award or after award of the contract, such Bidder shall be declared ineligible and his/ her bid shall be rejected and the contract shall be terminated, as the case may be.

12.3 Right To Accept / Reject The Bid

Notwithstanding anything contained herein, Chief Executive, ORSAC reserves the Right to reject any Bid or all Bids without showing any reason thereof.

12.4 Late Bids

Bids received after the specified last Date and Time of receipt (including any extension of time for submission of bid thereof) for whatsoever reason, shall be rejected summarily. No further communications in this regard shall be entertained.

12.5 Award Of Work

The work shall be awarded to the successful bidder for 9 (nine) crop seasons as per the scope of the work. The Letter of Intent (LOI), followed by Work Order (WO) shall issue to the successful bidder by ORSAC upon receipt of the go-ahead of the work by the Food Supplies and Consumer Welfare Department, Govt. of Odisha before commencement of the work for each crop season.

12.6 Performance Bank Gurantee

The selected Bidder shall be required to submit a Performance Bank Guarantee for an amount equal to 5% of contract value for each crop season (as per letter no: 8952/F FIN-COD-MISC-0007-2019 dated 18-03-2021 from Govt. of Odisha, Finance Department) valid for 3 months in excess of the working period. The selected bidder shall furnish the Performance Bank Guarantee before proceeding with the new crop season as per Letter of Intent issued by ORSAC. The Performance Bank Guarantee shall be held free of interest as security for due performance as per obligations under the contract. The Performance Bank Guarantee shall be released after successful completion of the Performance Period (crop season).

12.7 Extension Of Time

The date of completion of the contract may be extended due to force majeure or events beyond control of the selected Bidder. In such case, the Bidder shall be obliged to submit a claim for extension of time with due justification. The decision of the department on time extension shall be binding on the Bidder. Necessary amendment to the contract in accordance with the granted time extension will be done. Liquidated Damage shall not be applicable for the officially extended time period.

12.8 Copyright

The copyrights in all maps, documents and other materials containing data and information including plan/ design/ specifications/ database/ application software furnished by the selected Bidder to the ORSAC shall remain as Intellectual Property of the ORSAC.

12.9 Liquidated Damages

In case the selected Bidder fails to attain completion of the work within the scheduled time for Completion or any extension thereof due to reasons attributable to the selected bidder, ORSAC shall recover the amount of Liquidated Damages, by making deductions from the selected bidder's account or by encashment of Bank Guarantees at the rate of 0.5% of the Contract Price plus escalation, if any, excluding taxes and duties per month of delay up to a maximum of 5% of the Contract value, excluding taxes and duties.

However, the payment of liquidated damages shall not in any way relieve the selected Bidder from any of its obligations to complete the Work or from any other obligations and liabilities of the Consultant under the Contract.

12.10 Suspension Of Work

The department may, by notice to the selected Bidder, order the selected Bidder to suspend Work of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the Effective Date of the suspension and the reasons therefore. The selected Bidder shall there upon suspend work of such obligation (except those obligations necessary for the care or preservation of the Work) until ordered in writing to resume such performance by RFPPer.

12.11 Insurance & Liability

The selected Bidder shall, at his own expense, arrange appropriate comprehensive insurance to cover all risks assumed by the vendor under this contract in respect of its personnel and equipment deployed under this contract. ORSAC shall not be liable for any incident relating to any damage to the machines/ persons involved during the survey/work.

12.12 Entire Contract and T & C of this RFP

The terms and conditions laid down in this document and all annexure thereto as also the forms and any attachment shall be read in consonance as an integral part of this contract. Confusions due to inadvertent omissions and commissions in this RFP shall be addressed and disposed under the object and reason of this RFP and matters are to be understood under common sense and logic.

12.13 Disputes & Arbitration

All disputes arising out of the contract shall be amicably settled by both parties. In the unfortunate event of any dispute or differences, breach and violation relating to the terms of this agreement, the said dispute or difference shall be referred to the sole arbitration of the Arbitrator appointed by Chief Executive, ORSAC for the purpose. The award of the arbitrator shall be final and binding on both the parties. The adjudication of arbitrator

shall be governed by the provision of the Arbitration and Conciliation Act, 1996, or any statutory modification or re-enactment thereof or any rules made thereof. All legal disputes are subject to the jurisdiction of courts in Bhubaneswar.

12.14 Governing Laws

The contract between Chief Executive, ORSAC and the selected Bidder shall be governed by and interpreted in accordance with the laws for the time being in force in the state of Odisha. The courts at Bhubaneswar shall have exclusive jurisdiction in all matters arising under the contract.

12.15 Force Majeure

Neither party shall be liable to the other for any loss or damage occasioned by or arising out of acts of God such as unprecedented flood, volcanic eruption, earthquake or other convulsion of nature and other acts such as but not restricted to invasion, the act of foreign countries, hostilities, or war-like operations before or after declaration of war, rebellion, military power which prevent performance of the contract and which could not be foreseen or avoided by a prudent person.

13. Payment Terms and Condition:

13.1 Price as Per Bid Document

The Contract Price shall be paid in the manner specified in the BID DOCUMENT. No invoice for extra work/ change order on account of change order will be submitted by the Bidder unless the said extra work/ change order has been authorized/ approved by ORSAC in writing.

13.2 Invoice Address To

The Contractor's request for payment shall be made to Chief Executive, ORSAC in writing, accompanied by invoices, describing, as appropriate, the relevant component of the Solution performed, accompanied by all sign off documents by relevant ORSAC officials as well as any other documents as mandated by ORSAC.

13.3 ORSAC Payment

All payments shall be made by ORSAC in favor of the Bidder.

13.4 Payment Measure

The release of payments shall be progressive, and performance / output based as per the Payment Schedule given below, where the payments shall be made for measured

deliverables and outputs on acceptance by ORSAC.

13.5 Milestone Sign-Off

The selected Bidder shall obtain sign-off for each milestone completed from the Purchaser and raise invoice against the same.

13.6 Payment Timeline

Payments shall be made promptly by ORSAC, no later than Forty-Five (45) days after submission of an invoice completed in all respect, and admission by ORSAC.

13.7 Power To withhold

Notwithstanding anything contained in the Payment Schedule mentioned below, if in the opinion of ORSAC, Project Implementing Agency is deficient in any manner in comparison to the prescribed standards, ORSAC shall be at liberty to withhold a reasonable portion of the payments due to the Bidder, till such work/ supply/ service is made conforming to the prescribed standards. These powers to withhold payments shall be without prejudice to any other power/ right of ORSAC under this Contract.

13.8 Excess Payment

If any excess payment has been made by ORSAC due to difference in quoted price in proposal and Bidder invoice, ORSAC may without prejudice to its rights recover such amounts by other means after notifying the Bidder or deduct such excess payment from any payment subsequently falling due to the Bidder.

13.9 Project Currency

The currency in which payment shall be made to the Contractor under this contract is Indian Rupees (INR).

13.10 Payment Schedule

All payments shall be made by ORSAC to the Contractor as per the following Payment Schedule. No payment will be released without submission of the necessary Performance Security for the entire project:

Progressive /Milestone based payment for Project will be regulated as under:

13.11 Payment Milestone:

Sl.	Milestones	Payment (% of the Contract Value)
1.	Advance towards infrastructure mobilization against Bank Guarantee	10
2.	P-PAS Farmer Database Standardization, Cadastral editing & geo-referencing, Farmer DB linking for past 3 same crop seasons (Rabi or Khariff) & Crop/ Non-crop land classification for the crop season	10
3.	Cadastral Mapping of plots reported in the crop season	15
4.	AI & ML based HRSI analysis (supervised classification) using Image change detection and classification with feature class extraction, for paddy crop growth monitoring with respect to cadastral data of P-PAS registered farmers	15
5.	Cadastral/ Paddy classified image integration and validation of reported crops with 1st round qualification for issue of tokens along with Tahsil/ Village/ Plot wise list of misreporting/ doubtful crop reporting	10
6.	AI/ML based HRSI analysis (supervised classification) of crop growth and field confirmation for 2 nd (Final) Round issue of tokens.	10
7.	Integration with P-PAS system and Crop season wise integration of village/ plot level crop validation data, operation support & maintenance of the existing Web GIS and Mobile application	20
8.	After 6 Months of Commissioning of the Web GIS Application	10
	Total	100

14. Proforma/ Bid Submission Format

List of Proforma Forms for The Bidder Bidders:

GF-1: BIDDER'S PROFILE

GF-2: BIDDER'S UNDERTAKING STATEMENT

GF-3: CERTIFICATE OF COMPLIANCE (NO CONFLICT OF INTEREST)

GF-4: CONFIDENTIALITY/ NON-DISCLOSURE UNDERTAKING

GF-5: PERFORMANCE BANK GUARANTEE

GF-6: FORMAT FOR QUERIES

GF-7: FORMAT OF AGREEMENT (SHALL BE SIGNED AFTER AWARD OF THE CONTRACT)

TF-1: TECHNICAL BID LETTER

TF-2: DETAILS OF ENTERPRISE CLASS GIS/MIS APPLICATION

TF-3: DETAILS OF RS/GIS MAPPING IN CADASTRAL MAP

TF-4: DETAILS OF SATELLITE IMAGE BASED VALIDATION OF AGRICULTURAL CROP AT CADASTRAL LEVEL

TF-5: DETAILS OF PROJECT TEAM MEMBERS

CF-1: COMMERCIAL BID LETTER

CF-2: FORMAT FOR FINANCIAL BID

GF-1: BIDDER'S PROFILE:

RFP No. ...

Name of Project: - Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II

Sl. No.	Required Details of the Bidder	Bidder Response
1.	Name of the Bidder	
2.	Bidder registered office address Telephone number Fax number e-mail	
3.	Correspondence/ contact address	
4.	Details of contact person (Name, designation, address etc.) Telephone number Fax number e-mail	
5.	Is the bidder a registered c bidder? If yes, "submit documentary proof. Year and place of the establishment of the bidder	
6.	Former name of the bidder, if any.	
7.	Is the bidder? <ul style="list-style-type: none"> ➤ A Government/ Public Sector Undertaking? ➤ A proprietary bidder? ➤ A partnership bidder (if yes, give partnership deed)? ➤ A limited bidder or limited corporation? ➤ A member of a group of companies (if yes, give name and address, and description of other companies)? ➤ A subsidiary of a large corporation (if yes give the name and address of the parent organization) If the bidder is subsidiary, state what involvement if any, will the parent bidder have in the project? ➤ A joint venture consortium (if yes, give name and address of each partner)? 	
8.	Is the bidder registered with sales tax department? If yes, submit valid sales tax clearance certificate.	
9.	Is the bidder registered for service tax with Central Excise Department (Service Tax Cell)? If yes, submit valid service tax registration certificate.	
10.	Attach the organizational chart showing the structure of the organization including the names of the directors and the position of the key officers.	

	What is the total number of employees?	
11.	Number of years in the relevant field?	
12.	Is the bidder registered with any Government/ Department/ Public Sector undertaking? (if yes, give details)	
13.	How many years have your organization been in business under! your present name? What were your fields when you established your organization? When did you add new fields (if any)?	
14.	What type best describes your bidder? (Documentary i proof to be submitted) - Manufacturer - Supplier System Integrator Consulting Bidder Implementation Agency (pl. specify details) Software Development Total Implementation Agency (Design, Supply, Integration, etc.)	
15.	Please give details with contact no. of staff those will be involved in this project.	
16.	Number of offices / project locations in • India: • Odisha:	
17.	List the major projects of ORSACs with whom your organization has been/ is currently associated.	
18.	What is the total year of experience of handling Government projects?	
19.	Have you ever been denied RFPing facilities by any Government? Department/ Public sector Undertaking? (Give details)	
20.	Submit receipt of latest Income Tax Return filed with Income Tax Department and PAN no.	

Name of the Authorized signatory:

Bidder Seal: -

Signature:



GF-2: BIDDER’S UNDERTAKING STATEMENT:

“Selection of Bidder for the project titled (Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II)” (RFP No..... /2024) We,

M/S

.....
..... hereby confirm that we have read and understood the entire RFP Document and accordingly submitted our RFP as follows:

1. Commercial Proposal (Format of RFP, Schedule of Prices) in hard copy.
2. —Ditto- digital word/excel format — Total Pages
3. Technical Proposal consisting of the following documents in digital pdf format and hard copy:
 - a. Total pages
 - b. Total pages
 - c. Total pages
 - d. Total pages
 - e. Total pages
 - f. Total pages
4. We understand that the entire RFP document and the technical and commercial proposal including RFP circulars and addenda shall form part of the Contract Document and we undertake to sign and stamp each and every page of these documents if our offer is accepted.

Signed by duly Authorized signatory
..... On behalf of
M/S
.....
.....

Bidder Stamp

Signature





GF-3; CERTIFICATE OF COMPLIANCE (NO CONFLICT OF INTEREST)

Bidder's Name...

Address:

.....

.....

.....

We hereby certify and consider that the entity named above, including all members, partners and persons associated with it shall not have any corporate, commercial or other links, relationship or agreements with any of the entities who will be entrusted with Bidder for the project titled "Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II" under the scope of this RFP.

(Authorized signatory): Name:

Designation:

Signed this Day of 2024 For the entity

Seal



GF-4: CONFIDENTIALITY/ NON-DISCLOSURE UNDERTAKING

This Confidentiality Undertaking (this “Undertaking”) is made by [] a corporate entity registered under the laws of [], whose address is [] (hereinafter referred to as the “Recipient”).

WHEREAS, the Recipient is entrusted to Bidder for the project titled “Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II” WHEREAS, ORSAC has agreed to make available to the Recipient certain information to enable the “Recipient” to carry out the required services;

NOW, THEREFORE, the Recipient undertakes the following:

1. The above preamble shall form an integral part of this Undertaking.
2. For the purpose of this Undertaking the term “Confidential Information” shall mean any and all information, data or records of ORSAC or entrusted to ORSAC by any third party presented, given, sent or delivered to the Recipient whether in print, text, writing, via computer diskettes, compact disks, computer files of all kinds, or through any other audiovisual, tangible or intangible medium whatsoever, and designated in writing by ORSAC or its affiliates or Employers or which, under the circumstances surrounding disclosure, ought to be treated as confidential and shall include but shall not be limited to, any and all information, data, records, statements, processes, formulae, techniques, financial, technical, operational, commercial, staff, management, sales strategies, desires, goals or expansions and other information, data and expertise of whatever kind of ORSAC, including all lists of potential or existing Employers or customers, organizational information, contracts or agreements, proprietary business or management methods, marketing data, fee schedules, know-how, designs, concepts, techniques, inventions and ideas, business plans, computer software and programs, database technologies, systems, structures and architectures, research projects or trade secrets of ORSAC or its affiliates or Employers and shall include all computer files, documents, data and analyses prepared by ORSAC or its agents or its affiliates or Employers, which contain or are based upon Confidential Information. Confidential Information shall also include any information which can be obtained by examination testing or analysis of any such hardware, any component or part thereof, and software or material samples, provided or given access to the Recipient by ORSAC.
3. The obligation to maintain the confidentiality of Confidential Information shall continue to apply for five years after signature of this Undertaking. However, the said obligation does not apply to Confidential Information:
 - a) If the Confidential Information is generally available in the public domain (unless available as a result of breach of this Undertaking).
 - b) If the Confidential Information is lawfully in the Recipient’s possession (as evidenced by the Recipient’s written records) and was not acquired directly or indirectly from ORSAC:

- c) If the disclosure of Confidential Information is required by any applicable law or by any supervisory or regulatory body to whose rules the Recipient is subject, or with whose rules it is necessary for the Recipient to comply.
4. If any proceedings are commenced or action taken which could result in it becoming compelled to disclose Confidential Information, the Recipient will, to the extent that it is lawfully able, immediately notify ORSAC of such proceedings or action in writing and will take all available steps to resist or avoid such proceeding or action, including all steps that may reasonably be requested by ORSAC and keep ORSAC fully and promptly informed of all matters and developments relating thereto. If the Recipient is obliged to disclose Confidential Information to any third party, the Recipient will disclose only the minimum amount of information consistent with satisfying its obligation. Furthermore, the Recipient will give prior written notice of the information it proposes to disclose, the notice containing a copy of the proposed disclosure, and will give ORSAC an opportunity to discuss the relevant notice prior to any disclosure.
5. The Recipient will immediately upon receipt of a written demand from ORSAC:
 - a) Return to ORSAC all Confidential Information (and all and any copies thereof or of any part thereof);
 - b) Expunge all Confidential Information from any computer or other similar device and all documents, forms, diskettes, compact discs, computer files or other tangible or intangible item containing Confidential Information together with all relevant samples and models which it has in its possession into which it was entered by it or on its behalf or by its advisers or representatives or on their behalf; and
 - c) Destroy all notes, analysis or memoranda containing Confidential Information prepared by ORSAC or on its behalf or by its advisers or representatives or on their behalf,
6. The Recipient hereby expressly, unconditionally and irrevocably agrees that it shall:
 - i. Hold ORSAC's Confidential Information in strict confidence to itself and restrict access to such Confidential Information to only its employees who need to know it and shall further ensure that any such employees are bound by the obligations of confidentiality as stated in this Undertaking, and to hold all Confidential Information of ORSAC in strict confidence.
 - ii. Treat such Confidential Information with at least the same care and precaution that the Recipient affords to its most confidential, valuable, and secret information.
 - iii. Not use, exploits, access or benefit from such Confidential Information for any reason or purpose whatsoever
 - iv. Not use such Confidential Information in any way detrimental to ORSAC (it being acknowledged that any use or exploitation by the Recipient of the Confidential



- Information for any purpose whatsoever other than its own internal and non-commercial use, will be deemed detrimental to ORSAC)
- v. Not to copy, keep, preserve, store or retain in any medium whatsoever any Confidential Information of ORSAC for any reason whatsoever, to that effect, the Recipient hereby expressly undertakes that it shall immediately upon the request of ORSAC, destroy any and all of the Confidential Information of ORSAC, which the Recipient has received from ORSAC
 - vi. Release such Confidential Information to a concerned “Recipient Representative” requiring such information only after advance written notification to ORSAC stating the name, address, telephone number and relationship to the Recipient of such Recipient Representative, and notifying such Recipient Representative to whom any disclosure of the Confidential Information is made that the disclosure is made in confidence, that the Confidential Information must be kept in strict confidence by the Recipient Representative and that the Confidential Information as well as the Recipient Representative is subject to the terms of this Undertaking
 - vii. Not to release, circulate, publish, expose, distribute, reveal, issue or disclose such Confidential Information through any medium or means whatsoever to any other person, persons, entity or entities without the prior express and explicit written consent of ORSAC, in which event the Recipient shall require such person or entity to enter into a confidentiality agreement acceptable to ORSAC.
 - viii. Take all reasonable steps to protect the Confidential Information from unauthorized access, production, publication, distribution, circulation, exposure, copying or disclosure by any party, in any manner, any means and any medium whatsoever.
 - ix. Comply with any and all instructions that ORSAC may issue in relation to the manner through which the Recipient may utilize the Confidential Information for the purposes of this article.
 - x. Notify ORSAC immediately upon discovery of any unauthorized use or disclosure of Confidential Information, or any other breach of this Undertaking by the Recipient and will cooperate with ORSAC in every way to help in regain possession of the Confidential Information and prevent any further unauthorized use of such.
7. The Recipient hereby expressly and unconditionally agrees that any and all of the terms, conditions and provisions contained within this Undertaking relating to the Confidential Information are of the essence, reasonable and necessary in order to protect ORSAC's business, reputation, best interests and goodwill. To that effect, the Recipient hereby expressly and unconditionally declares, understands and accepts that should the Recipient breach any of the term's conditions and/or provisions of this Undertaking, ORSAC shall





suffer grave loss, damage and lost profits to its businesses, reputation, best interests and goodwill.

8. The recipient acknowledges and agrees that damages would not be an adequate remedy for any breach of this undertaking and that either party shall be entitled to the remedies of injunction, specific performance and other equitable relief for any threatened or actual breach of any such undertaking.
9. The Recipient hereby expressly and unconditionally understands and accepts that nothing in this Undertaking is intended to grant the Recipient any form of right, title or interest in or to any of the Confidential Information of ORSAC whatsoever, or to any invention, trade secret or intellectual property based thereon. By disclosing, presenting or providing Confidential Information to the Recipient, the Recipient fully and unconditionally understands and accepts that ORSAC does not grant any express or implied right interest or title to the Recipient or the Recipient Representative to any Confidential Information.

This Undertaking shall be governed by and construed in accordance with the laws of Republic of India. Any dispute arising out of or in connection with this Undertaking shall be referred to the Hon'ble High court of Odisha.

..... Signed by
authorized signatory of
M/S (The
Bidder)





GF-5: PERFORMANCE BANK GUARANTEE

(To be stamped in accordance with Stamp Act)

Ref:

Bank Guarantee No.

Date:

To,

The Chief Executive

Odisha Space Applications Centre, Government of Odisha.

Dear Sir / Madam,

WHEREAS (Name of The Bidder) herein after called “the Bidder” has undertaken, in pursuance of Contract, dated 2024 (hereinafter referred to as “the Contract”) to Bidder for the project titled “Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II” AND WHEREAS it has been stipulated in the said Contract that the Implementation Partner shall furnish a Bank Guarantee (“the Guarantee”) from a nationalized bank for the sum specified therein as security for the project/performance of proposed solution as per the agreement. WHEREAS We..... (“The Bank”, which expression shall be deemed to include it successors and permitted assigns) have agreed to give Odisha Space Applications Centre (ORSAC) the Guarantee. THEREFORE, the Bank hereby agrees and affirm as follows:

1. The Bank hereby irrevocably and unconditionally guarantees the payment of all sums due and payable by the Implementation Partner to ORSAC under the terms of _ their Agreement dated _____ On account of full or partial non- implementation and/ or delayed and/ or defective implementation. Provided, however, that the maximum liability of the Bank towards ORSAC under this
2. In pursuance of this Guarantee, the Bank shall, immediately upon the receipt of a written notice from ORSAC stating full or partial non-implementation and/ or delayed and/ or defective implementation, which shall not be called in question, in that behalf and without delay/demur or set off, pay to ORSAC any and all sums demanded by ORSAC under the said demand notice, subject to the maximum limits specified in Clause 1 above. A notice from ORSAC to the Bank shall be sent by Registered Post (Acknowledgement Due) at the following address:

.....
.....
.....
3. This Guarantee shall come into effect immediately upon execution and shall remain in force for a period of 24 months from the date of its execution. However, the Guarantee shall. not less than 30 days, prior to its expiry, be extended by the Bank for a further period of 12 months. The Bank shall extend the Guarantee annually in the manner herein before provided for a period of five years from the date of issue of this Guarantee.





4. The liability of the Bank under the terms of this Guarantee shall not, in any manner whatsoever, be modified, discharged, or otherwise affected by:
- i) Any change or amendment to the terms and conditions of the Contract or the execution of any further Agreements.
 - ii) Any breach or non-compliance by the Bidder with any of the terms and conditions of any Agreements/credit arrangement, present or future, between Implementation Guarantee shall not, under any circumstances exceed Partner and the Bank.

The BANK also agrees that ORSAC at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against Implementation Partner and not withstanding any security or other guarantee that ORSAC may have in relation to the Bidder's liabilities.

6. The BANK shall not be released of its obligations under these presents by reason of any act of omission or commission on the part of ORSAC or any other indulgence shown by ORSAC or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the BANK.
7. This Guarantee shall be governed by the laws of India and only under the Appellate Jurisdiction of Hon'ble High court of Odisha, in the adjudication of any dispute which may arise hereunder.

Dated this the Day of 2024.

Witness

(Signature)

(Signature)

(Name)

Bank Rubber Stamp

(Name)

(Official Address)

Designation with Bank Stamp

Plus, Attorney as per Power of

Attorney No:

Dated:

Dated:





GF-6: FORMAT FOR QUERIES:

Bidders requiring specific points of clarification may communicate with ORSAC during the specified period using the following template in MS Word Files as per the enclosed format.

RFP No:

Name of Project: “Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase-II”

Name of the Bidder:

Contact Address of the Bidder, with e-mail Id & Mobile No.

Sl. No.	Section No.	Page No.	Excerpt of RFP Clause	Query

Signature:

Name of the Authorized signatory:

Bidder seal:

Note: Consolidated and only Relevant Pre-Bid Clarifications shall be issued by ORSAC. ORSAC is not bound to issue Clarifications to Individual queries.





GF-7: FORMAT OF AGREEMENT (SHALL BE SIGNED AFTER AWARD OF THE ONTRACT)

1. THIS AGREEMENT made on the Day Of 20__ BETWEEN; 1. ORSAC (hereinafter referred to as the “ORSAC”), having address at represented by the (Which expression shall, unless repugnant to the context meaning thereof, include his successors, assignees) who is duly authorized by ORSAC to execute this agreement of the FIRST PART
2. M/S whose registered office is at and are duly registered as Implementation Bidder under the laws of Republic of India hereinafter referred to as “Bidder (SP)” (which expression shall, unless repugnant to the context or meaning thereof, include its successors and assigns) of the SECOND PART.

WHEREAS the ORSAC is desirous that the agreement be rendered in accordance with the Conditions of this Agreement as contained herein and the SP is willing and capable to render the said Services and has submitted an offer and the ORSAC has accepted the same for the following: Services: Bidder for the project titled “Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase - II”. NOW THESE PRESENT WITNESSES and it is hereby agreed and declared by and between the parties hereto as follows:

- i. In this Agreement the words and expressions shall have the same meanings as are respectively assigned to them in the Instruction to Bidders & RFP Forms, Special Conditions of Contract and General Conditions of Contract hereinafter referred to.
- ii. The following documents shall be deemed to form and be read and construed as part of them Agreement viz:
 - a. The RFP Document issued by ORSAC
 - b. The said Offer
 - c. Conditions of the Contract
 - d. The Appendices
 - e. Letter of Acceptance/Award
 - f. All pre-RFP circulars & addenda issued during the RFPing stage
 - g. All post-RFP clarifications, confirmations and correspondence (letters, faxes, emails) and minutes of meetings, in consideration of the payment to be made by the ORSAC to the SP as hereinafter mentioned, the SP hereby covenants with the





ORSAC to perform the Services in conformity in all respects with the provisions of this Agreement.

- ii. The ORSAC hereby covenants to pay the SP in consideration of the above Services the remuneration at the times and in the manner prescribed by this Agreement.
- iii. The Contract Sum for the Project has been agreed between the ORSAC and SP to be INR The same amount shall be the value for the purpose of furnishing Professional Indemnity Insurance by the SP.

IN WITNESS whereof the parties hereto have hereunder set their respective hands and seals on the day and year first above written.

Signed by a duly authorized signatory for and on behalf of the ORSAC

M/S

Chief Executive, ORSAC

Signature (Name & Designation)	Signature (Name & Designation)
Witness	Witness
Signature	Signature





TF-1: TECHNICAL BID LETTER

To,
The Chief Executive
Odisha Space Applications Centre, Government of Odisha.

Reference. RFP No.

Letter no.

Dated

Sir,

3. We hereby offer to provide the Services at the prices and rates mentioned in the Financial Bid
4. We do hereby undertake, that, in the event of acceptance of our bid, the Services shall be provided as stipulated in the schedule to the Bid document and that we shall perform all the incidental services.
5. We enclose herewith the complete Technical Bid as required by you. This includes:
 - i) This Bid Letter
 - ii) Bid Particulars
 - iii) Documents in support of Technical Bid Evaluation Criteria
 - iv) Details of the proposed solution, proposed Methodology & Timeline We agree to abide by our offer for a period of 180 days from the actual date of opening of the Technical

Bids and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and conditions of the RFP and the conditions of the Contract applicable to the RFP and we do hereby undertake to provide services as per these terms and conditions. Certified that the RFPer is a Bidder and the person signing the RFP is the duly constituted attorney. Bid Security (Earnest Money) for an amount equal to Rs. _____ (Rs. _____ Lakhs Only) is enclosed in the cover containing Part-I of the bid.

We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof or placement of letter of intent awarding the contract, shall constitute a binding contract between us.

Dated this _____ Day of 2024 (Signature) (In the capacity of)

Duly authorized to sign the RFP Response for and on behalf of: (Name and Address of Bidder)
Seal/Stamp of Bidder

Witness Signature:

Witness Name:

Witness Address:



TF-2: DETAILS OF ENTERPRISE CLASS GIS/MIS APPLICATION

Sl.	Client	Project	Value (in Rs. Lakhs)	Project Start & End Date	Refer Supporting Documents
1.					
2.					
n.					

TF-3: DETAILS OF RS/GIS MAPPING IN CADASTRAL MAP

Sl.	Client	Project	Area (in sq.km)	Value (in Rs. Lakhs)	Project Start & End Date	Refer Supporting Documents
1.						
2.						
n.						

Signature

TF-4: DETAILS OF EXPERIENCE IN SATELLITE IMAGE BASED VALIDATION OF AGRICULTURAL CROP AT CADASTRAL LEVEL IN ANY CROP SEASON FOR ANY GOVERNMENT ORGANISATION IN INDIA

Sl.	Client	Project name, start and end date	Value (in Rs. Lakhs)	Area covered (sq.km)	Refer Supporting Documents
1.					
2.					
n.					

Signature

Seal

TF-5: DETAILS OF PROJECT TEAM MEMBERS

A. Number. of IT/Software Professionals (on Regular Payroll)

Sl.	Name	Qualification	Yrs. of Exp.	EPF Code	ESI Number
1					
2					
3					
n.					



B. Number. of GIS & Remote Sensing Professionals (on Regular Payroll)

Sl.	Name	Qualification	Yrs. of Exp.	EPF Code	ESI Number
1					
2					
3					
n.					

Note: Provide relevant experience of the above team members, if any, in agricultural/ crop reporting monitoring system & crop mapping/ analysis using high resolution satellite imagery at a cadastral scale.

Signature

Seal





CF-1: COMMERCIAL BID LETTER

To,
The Chief Executive
Odisha Space Applications Centre
Government of Odisha

Ref. RFP No.....

Sir,

1. We hereby offer to provide the Services at the prices and rates mentioned in the Commercial Bid in CF2
2. We enclose herewith the complete Commercial Bid as required by you. This includes:
 - i. This Bid Letter
 - ii. Price Schedule

We agree to abide by our offer for a period of 180 days from the actual date of opening of the

Technical Bid and that we shall remain bound by a communication of acceptance within that time. We have carefully read and understood the terms and conditions of the RFP and the conditions of the Contract applicable to the RFP and we do hereby undertake to provide services as per these terms and conditions.

Herewith we consider to undertake the mark as per the RFP documents without any objection in time,

Dated this Day of..... 2024 (Signature) (In the capacity of)

Duly authorized to sign the RFP Response for and on behalf of:

(Name and Address of Bidder) Seal/Stamp of Bidder

Witness Signature:

Witness Name:

Witness Address:



CF-2: FORMAT FOR FINANCIAL BID

Commercial Bid for Village wise Plot Level Analysis of Paddy Crop growing areas in different Crop Seasons for the state of Odisha Phase - II

Sl.	Item of work	Unit	Unit Rate (Rs.)	GST 18%	Unit rate including GST(Rs.)
A.	Village wise plot level compilation and analysis of paddy crop reporting by farmers, validation of reported paddy crop involving digitized cadastral records (map and RoR) integrated with crop classification map generated from geo-referenced HRSI including all necessary GIS, Remote sensing works in 1:4000 scale, comparison of paddy crop reporting by farmers and HRSI analysis using B.I. tools and integration with Paddy Validation Portal and P-PAS system.	Sq. km.			
B.	Crop season wise incorporation of plot level image validation results in the developed Web GIS Portal with Dashboard facility for querying, analysis and visualization of Paddy Verification including maintenance of geo-database and developed web application	LS			
C.	Crop season wise configuration of village/ plot wise suspect plots in the Mobile Utility for Tracking & Monitoring, support to field validation team and maintenance of the android mobile application	LS			

NB: The total bid price shall be derived from above quoted unit rates and quantum of work (sq.km. of areas as per workload enumerated at Section 5), including Tax.

Accepted all terms and conditions of the RFP document.

Signature

Seal of the Bidder

Chief Executive