Pre Bid Clarification for EOI No. Advt. No.04/2023, Date: 18.08.2023 "Engaging reputed Geospatial & IT Companies /Firms for generation of Large-scale GIS Layers/ Databases from Very High-Resolution Satellite Images using latest Sate of Art Technologies like Artificial Intelligence (AI) & Machine Learning (ML) for the State of Odisha."					
Sl. No.	Firm Name	EOI Document reference, Section and Page No.	Content of EOI requiring clarification(s)	Points of clarification(s)Question	Clarifications
1	RMSI		General	Please can you let us know whether the system that will be built, needs to be integrated with any other system.	As it is the development of ORSAC, ORSAC may integrate with the existing applications bassed on the requirements.
			General	Do our resources have to work inside ORSAC in Bhubaneswar for training & building models on the images OR they can work from their home office with visits to ORSAC offices on need basis. Please clarify in detail.	The Firm shall work iniside ORSAC premise where the workspace will be provided by ORSAC for model building and training. And it is to be tested and hosted in the ORSAC server.
			General	Please can you confirm whether the task is limited to Pilot Study areas as mentioned in EOI.	The study area as mentioned in EOI is for pilot purpose later it will be done for whole Odisha state.
			General	Will the generated output layer required to be transformed into a vector as well? Please clarify.	Yes, the final output will be in the form of vector with feature type and area mentioned in it.
			General	Please clarify in details whether ORSAC will provide ground truth support as well.	The selected firm shall provide the app for ground truth collection and will be hosted in ORSAC account and server. The GT shall be conducted in collaborative mode with ORSAC.
			Scope of Work	Please clarify the list of features/objects that should be captured in Mining.	The minimum list of features are given in the EOI.
			Scope of Work	As defined the Pilot area, Urban, Non-Urban, and Mining. There will be various features like road networks, buildings, water bodies, etc. included in Urban areas. Similarly, there will be various features like roads, buildings, water bodies, rivers, agriculture, and plantations included in non-urban areas, so it includes a lot of features for the pilot. Please clarify whether these features are included in the scope of the pilot study.	It depends on the firm how many features they can extract inside the pilot area. Accordingly the marks will be awarded comparing the output with the mannual interpretation done by ORSAC Scientist.
			Scope of Work	As mentioned in the EOI, there are high resolution imageries are available for this pilot study. In this case deep learning and computer vision-based approach will be most effective way for feature extraction. This approach is an iterative process and required more time to train & tune the algorithms for optimum result. So, it is looking difficult to complete this pilot in 2-3 days. We request you to please allow us the sufficient time to compete and demonstrate the same.	The time required by the Firms are to be mentioned during the bidding, accordingly the Committee will allot time to all the participating Vendors taking average of the time requirements sought by the Firms.
			Scope of Work	As mentioned above, it is a time and resource consuming process. We request you to share the imagery of pilot area 15 days before, so the imagery can analyse and develop a robust machine learning model. The prediction and post processing steps can be demonstrated during the presentation.	The Firm can utilise his technical manpower on and off campus of ORSAC. But the work is to be executed here at ORSAC laboratory. Once, ORSAC knows the bidding Firms in the EOI and sees their methodologies, the imageries can shared with those Firms and agreed time can be alloted to complete the exercise.
			Scope of Work	Please clarify about the list of features from urban, non-urban areas and common features in both.	Minimum required features are listed in the EOI but again it depends on the firm how many features they are able to exttract and with what accuracy.

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2	Hexagon		2. Objectives:	Kindly confirm if ORSAC shall bear the cost of the pilot project.	There is no provision for the cost bearing by ORSAC for pilot area. The firm should have their own Machines where they will upload and process the Imagery. If the firm is using the cloud infra then the charges shall be bear by the firm only. As it is the evaluation process, cost is tobe borne by the Firms.
			2. Objectives:	Please include proprietary COTS image processing platform as well, which shall have inbuilt AI/ML technology.	The Firm may utilise COTS Image Processing Software and its AI/ML platform, but ORSAC requires a full automated moduleto execute the extraction of layers from HRSI Data.
			2. Objectives:	We request you to amend the clause as "The Source Code / SDK will be the property of ORSAC after completion of the Project." In case of any non-proprietary or proprietary software, either source code or SDK can be provided post project completion. Kindly amend.	The software is to be built for ORSAC and ORSAC will pay for it, thus it can not be compromised.
			3. Scope of Work; Feature List:	We understand that all the features mentioned in "Feature List" has to be extracted from HRSI image using AI / ML technology. We assume that reference data shall be provided by ORSAC. Kindly confirm.	The firm need to prepare the training datasets from the satellite imagery, the training sets are to be collected from Field, where ORSAC may help in collecting Ground Truth by the Mobile App developed by the Firm in collaberation with the Firm.
			3. Scope of Work; Feature List:	We understand that large amount of training samples are required to extract features using AI / ML technologies. As most of the features in the list are heteregeneous in nature, large amount of training samples shall be required in such situation. Please clarify if ORSAC shall provide the training samples or the selected agency shall arrange the same.	Already clarified.
			3. SCOPE OF WORK; Input Source/Imagery:	We assume that drone imagery shall be provided by ORSAC. Kindly confirm.	Basically, ORSAC requires extraction of features from High-Resolution Satellite Imageries (HRSI). The sample Data of HRSI are to be provided to the Firms.
3	Protech Infosystems Pvt. Ltd		**2. OBJECTIVES:** a. To provide a fillip to the development of new and innovative AI/ML Solutions that directly impact quality and production time for generating large scale GIS Databases using very High-Resolution Satellite Imageries.	Please mention specific AI/ML algorithm which department is looking for to prepare the GIS Databases using very High-Resolution Satellite Imageries.	The firm need to suggest the algorithm.
			2. OBJECTIVES: b. The AI/ML Solutions should be designed in a maximum period of 6 months from the date of announcement of Selected Bidder. **3. SCOPE OF WORK:** Pilot Areas: - Urban area – 25 Sqkm of 15cm HD Satellite Imagery - Non-Urban Area - 100 Sq.km 0f 30 / 50 cm HD /HR Satellite Imagery - Mining area – 5 Sq. km of 30/50 cm Drone Imagery	We assume that Pilot area GIS data preparation (as mentioned in EOI scope of work) is considered under the designed phase of the AI/ML enable solution within 6 month from announcement of Selected Bidder.	Pilot area will be processed during the presentation and the after selection of the firm within 6 months they have to make it scalable and fully functional for whole state.

31-08-23
Administrative-cum-Accounts Officer
Odisha Space Applications Centre
Bhubaneswar

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3	Protech Infosystems Pvt. Ltd		2. OBJECTIVES: c. To create an AI/ML production platform which will be used for next 4-5 years inside ORSAC Campus to create GIS databases using very High-Resolution Satellite Imageries for the entire State in every year.	As per our understanding GIS database preparation will be done by the department user after deployment, The scope of bidder is to provide software having AI/ML algorithm and provide proper training to the department user. please confirm our understanding.	After processing the image the final output will be in the form of vector data which then will be used by ORSAC for further processing at our end. The selected firm shall extract the feature in the form of vector file with the provided schema.
			3. SCOPE of WORK:	Please elaborate the scope	Already explained.
4	PAN India		General	Kindly confirm, will service provider have to provide only AI/ML Solution based program to execute the Scope of Work?	The firm need to suggest the algorithm.
			General	Kindly confirm, whether service provider must execute satellite image interpretation or any quality check, after applying AI/ML concept?	The quality checking will be done by both the firm and the ORSAC committee with respect to the mannualy interpereted dataset generated by ORSAC
			General	How many workstations /servers have to deployed at ORSAC premises. Other facilities provided by ORSAC like space, electricity, internet etc..	It depends on the firm how many resources they need at ORSAC for processing the whole state. For pilot they may use their infrastratucre remotely.
			General	How much cloud coverage in you procure HRSI data?	We have zero cloud coverage annual procured HRSI data.
			General	Any orthorectification or Aerial Triangulation need to be done by service provider?	The HRSI image is already orthorectified, so the firm just need to run their model and extract the features.
			General	Please confirm about the data capturing in 2D or 3D?	The ouput shall be 2D vector data only.
			General	Is there a specific format or data structure expected for the GIS layers/databases generated from the satellite images?	The expected schema shall be shared with the selected firm against the RFP. For pilot area no schema GIS dataset required, only the feature with class name.
			General	Indicative commercials kindly elaborate	A per unit area rate (@per sqkm) shall be suggested by the firm.
5	Stesalit Systems Limited		2. OBJECTIVES: a. To provide a fillip to the development of new and innovative AI/ML Solutions that directly impact quality and production time for generating large scale GIS Databases using very High-Resolution Satellite Imageries.	Please mention specific AI/ML algorithm which department is looking for to prepare the GIS Databases using very High-Resolution Satellite Imageries.	Already clarified
			2. OBJECTIVES: b. The AI/ML Solutions should be designed in a maximum period of 6 months from the date of announcement of Selected Bidder. 3. SCOPE OF WORK: Pilot Areas: - Urban area -- 25 Sqkm of 15cm HD Satellite Imagery - Non-Urban Area - 100 Sq.km 0f 30 / 50 cm HD /HR Satellite Imagery - Mining area – 5 Sq. km of 30/50 cm Drone Imagery	We assume that Pilot area GIS data preparation (as mentioned in EOI scope of work) is considered under the designed phase of the AI/ML enable solution within 6 months from announcement of Selected Bidder.	Already clarified

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5	Stesalit Systems Limited		2. OBJECTIVES: c. To create an AI/ML production platform which will be used for next 4-5 years inside ORSAC Campus to create GIS databases using very High-Resolution Satellite Imageries for the entire State every year.	As per our understanding GIS database preparation will be done by the department user after deployment, The scope of bidder is to provide software having AI/ML algorithm and provide proper training to the department user. please confirm our understanding.	Already clarified
6	Amnex Infotechnologies Pvt. Ltd.		e. The solutions should be amenable to replication and scale-up upon successful demonstration of pilot	Kindly Confirm if ORSAC shall bear the cost of the pilot project.	Already clarified
			f. The technology proposed to be used should be general and non-proprietary wherever possible. Reasons for choice of technology should be clearly specified as part of the proposal	Please include proprietary COTS image processing platform as well, which shall have inbuilt AI/ML technology.	The Firm may utilise COTS Image Processing Software and its AI/ML platform, but ORSAC requires a full automated moduleto execute the extraction of layers from HRSI Data.
7	Scanpoint Geomatics Limited	2. OBJECTIVES: Page No. 2	2. OBJECTIVES: a. To provide a fillip to the development of new and innovative AI/ML Solutions that directly impact quality and production time for generating large scale GIS Databases using very High-Resolution Satellite Imageries.	Please mention specific AI/ML algorithm which department is looking for to prepare the GIS Databases using very High-Resolution Satellite Imageries.	Already clarified
		ORSAC_EOI.pdf 2. OBJECTIVES: Page No. 2 Page No. 3	2. OBJECTIVES: b. The AI/ML Solutions should be designed in a maximum period of 6 months from the date of announcement of Selected Bidder. 3. SCOPE OF WORK: Pilot Areas: - Urban area – 25 Sqkm of 15cm HD Satellite Imagery - Non-Urban Area - 100 Sq.km 0f 30 / 50 cm HD /HR Satellite Imagery - Mining area – 5 Sq. km of 30/50 cm Drone Imagery	We assume that Pilot area GIS data preparation (as mentioned in EOI scope of work) is considered under the designed phase of the AI/ML enable solution within 6 month from announcement of Selected Bidder.	Already clarified
		ORSAC_EOI.pdf 2. OBJECTIVES: Page No. 2	2. OBJECTIVES: c. To create an AI/ML production platform which will be used for next 4-5 years inside ORSAC Campus to create GIS databases using very High-Resolution Satellite Imageries for the entire State in every year.	As per our understanding GIS database preparation will be done by the department user after deployment, The scope of bidder is to provide software having AI/ML algorithm and provide proper training to the department user. please confirm our understanding.	Already clarified

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7	Scanpoint Geomatics Limited	ORSAC_EOI.pdf 2. OBJECTIVES: Page No. 3	**3. SCOPE OF WORK:** **Feature List:** - Road network - Buildings - Water bodies (lakes/ponds) - River Network - Forest - Mining - Agriculture - Coastline - Aqua Culture/Ponds - Sand areas - Banana plantations - Coconut Plantations - Palm Plantations **Pilot Areas:** - Urban area – 25 Sqkm of 15cm HD Satellite Imagery - Non-Urban Area - 100 Sq.km 0f 30 / 50 cm HD /HR Satellite Imagery - Mining area – 5 Sq. km of 30/50 cm Drone Imagery	1. Kindly provide maximum time allocation to prepared the layers mentioned in EOI for the given pilot area 2. Is it mandatory to extract all the layers mentioned in EOI during Pilot project? 3. What are the details need to be extracted from the mining area using the drone image. Please elaborate.	Already clarified
		General		1. Do we need to mention price rate in the EOI technical document or the price rate should be mentioned in RFP technical documents. Please clarify. 2. We assumed that department is asking price rate for AI/ML solution(software) that is going to supply, not for the GIS database preparation. Kindly confirm.	Already clarified
				1. As per the EOI the scope is to prepare a GIS databases using very High-Resolution Satellite Imagery. As per our understanding department will required full fledge GIS desktop software having AI/ML solution. So we request to add some more functionality of GIS and Image processing tool like Orthorectification, image enhancement, mosaicking, subset etc. and various other GIS and Image processing functionalities.	Not necessary.
8	Vassar Labs IT Solutions Pvt Ltd.	General	General	Kindly Provide the Eligibility criteria with the required Specification with document required for Selection at this EOI Stage.	Any Firm can attemp. ORSAC requires result only. The scope already explained.
		General	General	We recommend considering the below Evaluation Criteria for the Selection at EOI Stage: 1. Experience of AI/ML based analytics implementation with live URL (Multiple projects are encouraged) 2. Experience of using Hi Resolution Satellite imagery / Drone with live URL (Multiple projects are encouraged) 3. Experience of extracting features for sectors (Multiple Sectors experience is encouraged) 4. Certifications like ISO, CMM Level 5. Empanelment with ISRO / State Remote Sensing Application Centers as on date	Already explained.
		3. Scope of Work Pg no: 3	AI/ML production Solutions	i) Is there any mandatory sample size to develop the trained Models? ii) Do we need to give pre-trained models or a system to train the models as per requirement?	Firm need to suggesst the model or algorithm.

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8	Vassar Labs IT Solutions Pvt Ltd.	3. Scope of Work Pg no: 3	Feature List: River Network	Is there any provision to get any DEM data? Please Clarify	It depends on your algorithm. If you require any DEM for the study area, you may use open SRTM DEM or ORSAC DEM with 5mt resolution.
		3. Scope of Work Pg no: 3	Feature List:	To identify the various type of Features mentioned in the EOI, is there any provision to get the multitemporal data? Please clarify.	No, ORSAC have annually procured HRSI dataset that will be used for processing
		3. Scope of Work Pg no: 3	AI/ML production Solutions	What is the expected time for training sample creation and model training, as deep learning model training takes a good amount of time per feature? If the demo has to be shown with pre-trained images, can the sample images for each feature be provided beforehand?	Firm shall perform all the task for pilot area within the time alloted for the presentation.
		3. Scope of Work Pg no: 3	AI/ML production Solutions	As the feature-specific model needs to be trained and training samples to be created as per requirement, please provide details on the sub-features to be detected for features like Mining and others during the demo.	Feature list is already provided in the EOI, other then that n numbers of features can be extracted from the HRSI dataset provided by ORSAC. It depends on the firm how many feature they are able to extract.
		3. Scope of Work Pg no: 3	AI/ML production Solutions	Since the model performance and compatibility would depend on the number of spectral bands and spatial resolution. Can you please provide details of the image to be provided like the number of spectral bands and spatial resolution during the demo?	Spatial resolution is already mentioned in the EOI. The spectral resolution is : HRSI : 4 bands (NIR, RED, GREEN, BLUE) Drone: 3 band (RED, GREEN, BLUE)
		3. Scope of Work Pg no: 3	Feature List:	Can you please provide details of the expected feature-wise output geometry type (Point, Line, or Polygon)?	Output shall be in the form of Polygon.
				What is the expected accuracy percentage expected during the demo? What would be parameters to calculate accuracy percentage?	Accuracy will be calculated based on the mannually derived feature with respect to the AI/ML based feature extracted. Accordingly, the firms shall be selected for RFP.
9	DroneAcharya Aerial Innovation. Ltd.	Objectives, Point (a), Page 2	To provide a fillip to the development of new and innovative AI/ML Solutions that directly impact quality and production time for generating large scale GIS Databases using very High-Resolution Satellite Imageries.	Information on whether there is a preference of the Image Processing softwares and if the company can use the image processing software of their choice.	No there is no preferable software solution.
		Pilot Areas : Mining area, Page no : 4	Mining area - 5 Sq. km of 30 / 50 cm Drone Imagery	Confirmation on this point as Drone Imagery resolution can be lesser than 30/50 cms	Please work on HRSI Data sets to be provided by ORSAC.
		Scope of Work, Page no : 4	Scope of Work	Technical Specifications of the hardware should be specified being used during the data acquisition and data processing	The demonstartion study to be done using your H/W and S/W.
		Requesting to add the following "Additional Requirement" to ensure a better list of bidders:	Eligibility & Qualification Criteria	Please specify if there is an eligibility criteria for the companies to be empanelled.	Any Firm can attemp. ORSAC requires result only.
			Consortium / Joint Venture	Request to specify whether consortium or joint venture is allowed	Consortium / Single Firm can attempt.
10	Arahas Technologies Private Limited	Page 1 of EOI	Expression of Interest shall be submitted in two copies, one Original and other copy of the Original in sealed envelope	No online submission is required, only Physical documents are accepted. We request you to Kindly confirm.	Yes only physical documents are accepted.
		Clause 2, objective, Page 2, Point (a) of EOI	To provide a fillip to the development of new and innovative AI/ML Solutions that directly impact quality and production time for generating large scale GIS Databases using very High-Resolution Satellite Imageries.	Whether any kind of training will be given to the qualified bidders to understand more on how ORSAC wants to integrate these technologies to generate large scale GIS database? Please confirm.	The scope of EOI is clearly mentioned in the EOI document, for further query one can ask their queries at the presentation time. The selected firm shall be provided with the RFP with all details of the work for scalability.
		Clause 2, objective, Page 2, Point (b) of EOI	The AI/ML Solutions should be designed in a maximum period of 6 months from the date of announcement of Selected Bidder.	Whether any kind of inputs will be provided to the selected bidder before starting project?	Training set should be prepared by the selected bidder only, the bidder shall be provided with satellite imagery.

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10	Arahas Technologies Private Limited	Clause 2, objective, Page 2, Point (c) of EOI	To create an AI/ML production platform which will be used for next 4-5 years inside ORSAC Campus to create GIS databases using very High-Resolution Satellite Imageries for the entire State in every year.	We understand that the AI/ML platform will be used for 4to5 years, but the Empanelment given in Page 3 of EOI is for 3 years. The two points are contradictory, so, kindly confirm the actual timelines.	AI/ML shall run continuously even after three years but the maintenance or enhancement of the AI/ML model is for 3 years.
		Clause 2, objective, Page 2, Point (d) of EOI	To make available a large body of pilot- tested and proven AI/ML Solutions that can be adopted by ORSAC for their Future GIS databases generation as per their specific needs	Please elaborate more on the term used "specific needs".	Full requirement shall be mentioned in the RFP document.
		Clause 3. SCOPE OF WORK, Page 3 of EOI	Input Source/Imagery: - High resolution Satellite Imagery: 0.15 meter to 0.5 meter (GSD)	Whether the HRSI is provided by the department or bidder needs to procure the Satellite images.	No the sattelite data shall be provided by ORSAC.
		Clause 3. SCOPE OF WORK, Page 3 of EOI	Feature List: - Road network, Buildings, Water bodies (lakes/ponds), River Network, Forest, Mining, Agriculture, Coastline - Aqua Culture/Ponds, Sand areas, Banana plantations, Coconut Plantations, Palm Plantations	Feature list is given in the EOI, but feature class is missing. Please provide the feature class also.	The work is extraction of the feature not classification under pilot mode of EOI. After issueing the RFP we will share the rest details or schema required for the GIS dataset.
		Clause 3. SCOPE OF WORK, Page 3 of EOI	Pilot Areas: - Urban area – 25 Sq. km of 15cm HD Satellite Imagery - Non-Urban Area - 100 Sq.km 0f 30 / 50 cm HD /HR Satellite Imagery - Mining area – 5 Sq. km of 30/50 cm Drone Imagery	1. Whether the satellite images will be provided by ORSAC for urban & non- urban areas. 2. Please provide more details on Satellite image specifications. 3. Please provide more specifications/ information on Drone Imagery.	It is clearly written in the EOI that ORSAC will provide the satellite data for the pilot area. It is already clarified above.
		Scope of work	Additional queries	What is the positional accuracy requirement for the final output?	The positional accuracy dpends upon the Satellite positional accuracy, the input used for this work. You may not worry about that. The layers generated shall sit on the HRSI Data sets provided by ORSAC.
		Scope of work	Additional queries	As the POC is required at the ORSAC campus, so the POC will be paid by ORSAC, or bidder has to do his own arrangements.	No, POC is only for the area mentioned in the EOI. No payment will be paid to ORSAC.
		Scope of work	Additional queries	Whether Sample data (like Satellite Images, Drone imagery etc.) will be given by the ORSAC to the bidder for POC.	Yes it will be provided, by ORSAC during the POC period.
				If yes, then whether the provided Satellite images would be cloud free and orthorectified.. Kindly confirm.	Yes the dataset which will be provided is cloudfree and orthorectified.
				Do our resources have to work inside ORSAC in Bhubaneswar for training & building models on the images OR they can work from their home office with visits to ORSAC offices on need basis. Please clarify in detail.	Yes
		Scope of work	Additional queries	Please provide more details on the POC, that is missing in the EOI document.	Clarified as above
				Do our resources have to work inside ORSAC in Bhubaneswar for training & building models on the images OR they can work from their home office with visits to ORSAC offices on need basis. Please clarify in detail.	Yes
		POC	Additional queries	We request you to please provide the details as mentioned below: 1. How much time will be given per bidder during POC? 2. How much area will be given per bidder for POC? 3. What is the software's, hardware, machines will be required for the POC? 4. How many nos. SW, machines are required?	Time slot will be provided to the firms submiited the EOI documents in time. For study area of POC it is already mentioned in the EOI. The firm shall suggest run their model on their machines may be available in cloud or remote, it is to be taken care by the firm participating.

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10	Arahas Technologies Private Limited	Additional queries	Additional queries	How many companies/ firms will be empaneled under this project? Kindly confirm.	It is not an empanellment process. The selected Firms will have to participate in the RFP after EOI. The Firms will be selected on Financial criteria to be specified by ORSAC.
		Additional queries	Additional queries	We need to submit technical documentation only; no commercials are required for the submission of this EOI.	A suggested rate need to submitted by the firms participating in the EOI.
11	SATRA Services and Solutions Private Limited		EoI submission	a. Is there any specific format for EoI submission b. Whether EoI can be submitted through email or Physical copy submission	No Specific Format is provided by ORSAC. You may describe about your Firm, consortium or single, who will be the leading Firm and who will be seconadary. The methodology and indicative price.
			Number of vendors	How many vendors are supposed to work on the envisaged solution? If more than one vendor is expected to work, whose mode of AI and ML will be considered?	The prospective bidders may participate, there is no limit.
			Output Evaluation What are the criteria for output evaluation? When AI&ML output is compared	with the manual output the results may vary, what is the threshold considered?	Why? We will see, what percetage your work is matching with ORSAC.
			Proof of Concept (PoC)	When does ORSAC require Vendors to perform PoC, Is it before issuing RFP or after issuing RFP? Please Clarify?	POC is only for the EOI, so it need to done during the presentation slot provided to the firm.
			Commercials	What is the unit considered for a commercial quote? Is it a square kilometer-wise for the whole area? Or Feature/Layer-wise?	Unit considered is per unit sqkm.
			Consortium/ JV	Can we apply for empanelment in Consortium or Joint Ventures? Please Clarify?	Already explained.
			Experience criteria	In order to promote MSEs, firm order/execution of any internal software products using AI/ML would also be considered. Please confirm?	There is no bar for any kind of Firm.
			System Development	Whether development of application system is required in this assignment? Please Clarify?	Already explained.
			Submission date	Please provide at least 2 weeks' time for submission after	Already explained.
12	Azure Cloud Services Pvt. Ltd.	1.Background Page No. 2	ORSAC is planning to generate state-wide Large-scale GIS Layers / Databases of Natural Resources and Infrastructures from 30 /50 cm and 15 cm High-Definition----	In the EOI, the Scale of mapping is not defined to generate state-wide Large-scale GIS Layers / Databases. Also, we request you to kindly clarify the positional accuracy acceptance from the 2D Feature mapping. We presume that the provided satellite data is Ortho rectified, seamless cloud free of recent vintage to perform ML Algorithm.	All dataset shall be genrated at cadastral scale level i.e. 1:4000 - 1:2000. rest details are clarified above.
		3.Scope of Work, Input Source/Imagery: Page. No. 03	High resolution Satellite Imagery: 0.15 meter to 0.5 meter (GSD)	Kindly Confirm.	ORSAC is having 0.15, 0.3 and 0.5 resolution Satellite Imagery. ORSAC will provide 0.15 for Urban areas, 0.3/0.5 for rest areas.
		3.Scope of Work, Feature List Page. No. 03	- Road network - Buildings - Water bodies (lakes/ponds) - River Network - Forest - Mining - Agriculture - Coastline - Aqua Culture/Ponds - Sand areas - Banana plantations	We presume that the feature list provided here is only the under the Scope of the Work. List of features for example; Agriculture only needs to identified and further classification like; scrub land, barren land, cultivated land etc. are not required. Kindly Confirm.	Already clarified.

Pre Bid Clarification for EOI No. Advt. No.04/2023, Date: 18.08.2023 "Engaging reputed Geospatial & IT Companies /Firms for generation of Large-scale GIS Layers/ Databases from Very High-Resolution Satellite Images using latest Sate of Art Technologies like Artificial Intelligence (AI) & Machine Learning (ML) for the State of Odisha."					
Sl. No.	Firm Name	EOI Document reference, Section and Page No.	Content of EOI requiring clarification(s)	Points of clarification(s)Question	Clarifications
13	ALTZ Technologies			What will be the selection criteria for shortlisting the vendors?	Any Firm can attemp. ORSAC requires result only. The scope already explained.
				ORSAC should provide the shortlisted vendors with the satellite data beforehand and provide atleast 15-20 days to prepare the POC. This enables each and every vendor to work on the platforms more efficiently.	The Firm can utilise his technical manpower on and off campus of ORSAC. But the work is to be executed here at ORSAC laboratory. Once, ORSAC knows the bidding Firms in the EOI and sees their methodologies, the imageries can shared with those Firms and agreed time can be alloted to complete the execise.
				Please mention the number of vendors to be empanelled for this project.	Already explained.
				Will the sample dataset provided for POC be the same for all vendors?	Yes
				The EOI states that the task should be completed in six months but the empanelment would last for three years. Can we assume that different bids will be floated during this time period in which only registered vendors will be permitted to participate? Please clarify.	Already explained.
				You mentioned during the pre-bid meeting that we must provide the budgetary in our proposal. However, since we do not yet have all of the information regarding the scope of work, we think that this should not be included in the proposal. Anything related to commercials should be asked after publishing the RFP.	Already explained.

Sri P.K. Parida 31-08-23

Sri P.K. Parida
Scientist 'F' & A.A.O, ORSAC