



**FOREST HEADQUARTERS, ODISHA, OFFICE OF THE
PRINCIPAL CHIEF CONSERVATOR OF FORESTS cum HoFF,
ARANYA BHAWAN, CHANDRASEKHARPUR, BHUBANESWAR,
ODISHA, PIN-751023**

**RFP / Tender for Procurement of
GAGAN-SBAS Enabled Rugged GPS PDAs
For
GIS Applications in Forestry & WL
By
PCCF cum HoFF, Odisha,**

RFP No. 612 / 2017/GIS

Dtd. 18th May, 2017

Chapter-1

1.1: Invitation of the Tender

Forest IT and Geomatics Centre is successfully running a Web-GIS System backed by 600 numbers of GPS PDAs in field spread all over Odisha, geospatially collecting Forestry and Wildlife Management Data. This GPS PDA System is primarily used for decision support, documentation and monitoring various Forestry and WL activities in the state. At present there is a need to expand the numbers of field devices to the level of all Forest Sections and the Critical Forest Beats.

Keeping the above in view, Chief Conservator of Forest, IT & GIS, (the Authorized Officer) invites RFP/Tender on behalf of the Principal Chief Conservator of Forests cum Head of the Forest Force (PCCF cum HoFF), Odisha, (Purchaser), from established and reputed OEMs / Authorized Distributors of OEMs / Device Systems Integrators to Procure Rugged GPS PDAs under a three years of full comprehensive warranty period, with extendable provisions for field data capture & its use in Web-GIS GIS Applications.

The RFP Document may please be downloaded from www.odishaforest.in or the tender section of www.odisha.gov.in. The bidder has to submit a nonrefundable amount Rs.5, 000/- in shape of bank draft drawn in favour of Principal Chief Conservator of Forests, Odisha, Bhubaneswar towards cost of RFP document along with all necessary bid papers as per this RFP / Tender. Any late bid response or Incomplete or ambiguous or conditional or is liable to be summarily rejected.

1.2: SCHEDULE OF EVENTS OF THE RFP/TENDER FOR RUGGED GPS PDAs

S. No	Events	Schedule / Details
1.	Hosting of the document on the Notice Board/ Website / News paper	18 th May 2017
2	Address for Submission of Bid	Chief Conservator of Forests, IT & GIS, O/o PCCF, Odisha, Aranya Bhawan, CS Pur, Bhubaneswar
3	Cost of RFP Document (Nonrefundable)	Rs. 5000/- in form of DD from any nationalized Bank in favour of PCCF, Odisha, Bhubaneswar.
4	Earnest Money Deposit	In the form of a Bank Guarantee for Rs. 5.00 Lakh, from a local branch of any nationalized Bank, in favour PCCF, Odisha, Bhubaneswar, valid for 1 Year from the date of opening the bid.
5	Last date of receipt of Pre-Bid Queries	28 th May 2017
6	Date & Time of Pre-Bid Conference	11.00 Hrs, 31 st May 2017
7	Last Date & Time of receipt of Bids	16.00 Hrs, 17 th June 2017
8	Opening of General Bids	10.30 Hrs of 19 th June, 2017 onwards
9	Opening Technical Bids & Technical Presentations	
10	Opening of Financial Bids	It will be duly intimated after the completion of Technical Bid Evaluation process

1.3: Minimum Technical Specifications, Functionalities, Scope of Works and Service Support benchmark / SLA of the Rugged GPS PDA System (Device along with its Ecosystem) to be procured through this RFP / Tender:

1.3.1: Specifications for GAGAN-SBAS Enabled Rugged GPS PDAs to be supplied
(Minimum Procurement is 600 Numbers of Devices):

Sl. No	Criteria	Minimum Technical & Functional Requirements	Whether Complied Yes / No	Remarks
1	Operating System	Stable Open Source Mobile Linux LTS Ver-3.2 or higher with LTS		
2	Processor	Industrial grade Mobile Processor with Min Clock Speed of 1 GHz with Max Operating temp of 85 degree centigrade.		Spec sheets of the Components OEMs are to be provided.
3	RAM	Industrial grade DDR-3/4, 1 GB or Higher		
4	User Non-removable Internal Memory cum Storage	<ol style="list-style-type: none"> Internal, fixed to motherboard , Non-Volatile Memory of Min 8 GB, eMMC 5.1 / 5.0 standard (High Temp Industrial grade eMMC) to enable the device to host 20-25 Applications & running 4-5 Apps simultaneously, including <u>automatic and all time GPS tracking</u> in the background. Auto freeing the storage space after conclusive upload of data to server. Stored contents not at all accessible to device users; for view, edit or delete. Any removable SD Card in any form is not allowed, it shall be fully user non-removable. 		
5	Display	<ol style="list-style-type: none"> Size 5 Inch or more, TFT; True Colour, Transmissive Sunlight readable, high-brightness display with Corning Gorilla Grade / Type, high toughened Glass Enclosure. 		

Sl. No	Criteria	Minimum Technical & Functional Requirements	Whether Complied Yes / No	Remarks
		<ol style="list-style-type: none"> 4. FSTN Backlighting Enabled 5. Display must not Degrade or Fade on Prolonged Use for minimum 5 years. 6. Min Resolution: 800x480 Pixel. 		
6	Geolocation Position Format	Latitude & Longitude having all option of display in Degree, Minute & Second, Degree Decimal, UTM and other Grids including user defined grids.		
7	Built & Constructions	<ol style="list-style-type: none"> 1. 6 Feet Drop Resistant 2. Dust Proof, Ports are adequately Protected. 3. Fully gasketed, Waterproof / Water-resistant (IP 65-67 grade) Compliant. 4. Ergonomic Form Factor 5. Integral Protective Casing of high impact tolerant material, with rubberized non-removable exterior padding. 6. Power button should be secured from accidental shutdown due to inadvertent pressing the button. User has to press the power button for minimum 10-15 second for Power shutdown. 		
8	Operating Conditions	-10 to 60 Deg. Celsius, Up to 95% Humidity (Non-Condensing)		
9	Connection Interface to PC, MAC and other Devices	<ol style="list-style-type: none"> 1. USB and Mini USB under authentication 2. Supports Plug & Play under strict Admin control only. 3. Bluetooth 2 under authentication 		
10	Internet Data Communication	<ol style="list-style-type: none"> 1. Secured Wi-Fi on 802.11 b, g & n Architecture. 		

Sl. No	Criteria	Minimum Technical & Functional Requirements	Whether Complied Yes / No	Remarks
	Interface	<ol style="list-style-type: none"> 2. Auto-Connect to Known & Registered Networks 3. Manual selection of Known & Registered Networks 4. On home screen constant display / alert of Internet Status with minimum one second refresh rate: (Whether Connected to Internet or & Internet Speed with respect to a Server only located at FITGC, Forest Hqrs Odisha) 5. Minimum 50 Mbps Upload and Download speed capability 6. Extremely easy to operate directly from a home screen Icon. 7. Data Monitor App on Home Screen with background refresh. 		
	GNSS / GPS Performance:			
11	GNSS Receiver Characteristics:	<ol style="list-style-type: none"> 1. GPS , GLONAS with GAGAN & Others SBAS Support . 2. High Sensitivity GPS Antenna to Capture GNSS Signals in dense canopy condition 3. GNSS Signal Multipath Rejection & Correction 4. High performance GNSS Receiver Chips on U-BLOX M8 Platform / SiRF Prima II / <i>SiRFstarIV</i> / <i>SiRFstarV</i> Grade Chipsets having integrated SBAS Support. 5. Fully & Natively SBAS Enabled on GNSS Chip level. 6. 16 parallel channel or more 		

Sl. No	Criteria	Minimum Technical & Functional Requirements	Whether Complied Yes / No	Remarks
		<ol style="list-style-type: none"> 7. RECEIVER: L1, C /A 8. GNSS Receiver Continuously track and uses up to 16 Satellite to compute and update position in addition to the GAGAN-SBAS Signal 9. It must capture and utilize GAGAN-SBAS Signal as a DGPS Correction, as and when available. 10. Display of GNSS Location Data, accuracy and other important data on home screen. 11. Clear display of DGPS Symbol or Icon on home screen and application screens or when SBAS DGPS Correction is available on the device. 12. Display of Satellite Signal Strength & Skyplot. 13. GAGAN SBAS supported DGPS Correction, with default and builtin option of NMEA, RINEX, RTCM 104 DGPS and RS 232 formatted GNSS Data Output. 14. Should support most widely used 100 numbers of Map Datums. 15. SI Units Supported 		
12	GPS Location Acquisition Time	<ol style="list-style-type: none"> 1. Warm: 15 second Max 2. Cold: 45 Second Max 3. Assisted Cold Start Support, based on Continuously Updated Ephemeris, auto-pushed into the device from the servers of the GPS Chip's OEM as and when 		

Sl. No	Criteria	Minimum Technical & Functional Requirements	Whether Complied Yes / No	Remarks
		the device is connected to Internet.		
13	GPS Location Update Rate	In every 1 Second, Continuous		
14	Compass	<ol style="list-style-type: none"> 1. Electronic Compass with Standard Navigation Features as provided in standard GNSS Handhelds. 2. Display of True north and Mag-North, Speed, Pitch, Roll & Yaw (3 Axes Movements) 		
15	Waypoints	>1000 with names and graphic symbol, >10 nearest (automatic), >10 proximity		
16	Routes	>100 reversible routes with up to 50 points each, plus MOB & Track Back Mode		
17	Tracks	Automatic Track log; > 100 saved Tracks; retrace your path in both directions.		
18	Alarm	Approach & Arrival, Off-Course, Proximity Waypoint, Low Battery, High Temperature etc.		
19	SBAS Accuracy, DGPS and GPS Signal Security	<ol style="list-style-type: none"> 1. Position: < 3 Meter, 95% typical in clear sky condition 2. Velocity: Min 0.05 meter/sec steady state 3. Must Receive GAGAN-SBAS Signals of PRN 127 & 128 as and when available. 4. Inbuilt GNSS Anti Spoofing Mechanism. 5. SBAS / GAGAN Signal Display Icon and accuracy in Home Screen 		
20	Antenna	Appropriate Built-in Quadrifilar Helix, high sensitive, and high gain antenna to		

Sl. No	Criteria	Minimum Technical & Functional Requirements	Whether Complied Yes / No	Remarks
		work under thick forest canopy condition.		
21	Battery	<ol style="list-style-type: none"> 1. Fully Internal Rechargeable Lithium-Polymer, 5.0 -7.5 V, Min Capacity of 7000 mAh; 2. Battery Drain out time: Min. 8-10 hours in full & continuous field working conditions with active display time 5-6 Hrs 		
22	Charger & cable	<ol style="list-style-type: none"> 1. A high quality USB to micro USB, 2-pin charger of 10 W & 0.5 Amps output, with an input of 100-240 V & 50 Hz power Supply. 2. Cable length 1.5 m 3. The charger must full charge the battery within 3 Hrs. 		
23	Keypad	Min. 39 keys, Touch Screen Qwerty / Alphanumeric keyboard can be operated using finger touch and stylus.		
24	USB	Minimum one standard USB port to interface the device with PC or MAC.		
25	Desktop Interface App	Desktop interface SW (Both on Windows & MAC) for Device OS, App Update and Data Sync.		
26	Camera with GPS and Compass Integrated	<ol style="list-style-type: none"> 1. Fully Integrated embodied back Camera, Minimum 8 MP auto focus, enabled with Powerful 5m capable LED Flash. 2. Auto Geotagging support. 3. GPS (Lat, Long, Alt), Heading & Time Stamp on the Photos. 4. By default Camera is integrated natively with the Electronic Compass and Handheld PDAs to 		

Sl. No	Criteria	Minimum Technical & Functional Requirements	Whether Complied Yes / No	Remarks
		display GNSS Location, Time, Camera direction & Gyroscopic (Pitch, Roll & Yaw) Stamps on the Photos.		
27	Device Controls & Settings, Application Management, and Application Interface with servers.	<ol style="list-style-type: none"> 1. All Current GPS PDA Apps of FD Odisha must be supported by the device and are to be ported to the device and all the Apps are to seamlessly integrate with the GPS PDA Servers System and its Enterprise Class Web-GIS Platform. 2. It must Support Min. 25 Embedded Apps for Various types of Forestry / Land Base Activity Data Collection, including All current Apps. 3. All Apps are to be built on the framework of the Current GPS PDA Apps to avoid server side integration conflicts. 4. Provision of a reliable HTTP or HTTPS framework for the GPS PDA System (Device & Server System) for data transfer and onboard software /firmware updates / all device management function etc. 5. IoT based commandeering the Device including control of camera and microphone of the device if necessary. 6. Auto-connect of the device to FITGC server to provide continuous locational intelligence. 7. Provision to Lock the Administrator defined default settings of the device. (Default / User or Admin 		

Sl. No	Criteria	Minimum Technical & Functional Requirements	Whether Complied Yes / No	Remarks
		<p>defined Setting Lock)</p> <p>8. Protection of Software Installation & Delete through a Password Locking Provision for the Administrator.</p> <p>9. Internet enabled Wi-Fi Based / Over the Air Updates for OS, Apps and Data Sync, under HTTP or HTTPS only.</p> <p>10. No FTP is allowed for any data or file transfer.</p> <p>11. User has no control over the Device or App Management Settings, except the Brightness or Volume Control of the Device.</p> <p>12. Desktop interface SW (Both on Windows & MAC) for Device OS, App Update and Data Sync.</p>		
28	Weight	Max 700 Grams including Battery.		
29	Physical Look and Feel and GUI of the Device & its Applications.	To ensure familiarity of usage and ease of operating the device by field staffs, the Physical Look and Feel and the GUI (Application Screens and App Interface) of the Device should be exactly similar to the 600 GPS PDA Devices in use by the FD Odisha,		
30	Accessories	Data downloading cable (Original), External Power-pack cum Charger, Carry Case, Vehicle Dashboard Mounting Bracket, Safety Strap, User Manual, and Training Video CD and YouTube Training Video on Web etc .		
31	SW Architecture of the Entire GPS PDA System: Device and Server Side Components	The entire System should be built on Open Source Products, without any Proprietary Product Cost Implications to Forest Department.		

1.3.2: Server Side Integration and Application Development:

- A. Porting of all Existing GPS PDA Apps of FD Odisha to the new devices in a fully compatible SW development framework to avoid conflicts in server side integration.
- B. Porting of all future GPS PDA Apps to be developed on the Old Devices.
- C. Developments of New GPS PDA Apps as per FD's Requirements.
- D. All changes in old and new GPS PDA Applications are to be incorporated.
- E. Web-GIS based Server Side Integration of all the supplied GPS PDAs; for access, visualization and customization of the captured and uploaded data as per the requirement of FD Odisha, in consonance with the existing GPS PDA System & its Web-GIS.
- F. Internet base remote commandeering of the Devices through GPS PDA Server System.
- G. Development of all required Web GIS Application components for GPS PDA System on a fully Open Source Based GIS Server and DB Platform on the existing framework of hosting and development, and future requirement of FD Odisha.
- H. Access, visualization, utilization and customization of all GPS PDA Application data from its Web-GIS Server by all field clients on an open source based desktop GIS SW (On Linux, MAC & Windows).
- I. The server side integration should be designed in such a manner that; for all field clients, the entire Web GIS interface of GPS PDA System will function with a dedicated background support of an installed Open Source GIS SW on their Desktops and Mobiles.
- J. Uploading of all necessary GIS Layers (Both Vector & Raster) in GPS PDA's Web GIS with due customization as required by FD Odisha.
- K. Necessary Satellite Image Processing work for Web-GIS functionalities as required by FD Odisha.
- L. Map Composition Service features on the Web-GIS of GPS PDA System
- M. Integration of bulk SMS services for login authentication and delivery of alerts generated by the Web GIS of GPS PDA System.
- N. IT Related Services, Supports and Maintenance of GPS PDA Server System & its

Web –GIS at FITGC, O/o PCCF Odisha.

- O. Ensuring Cyber Security of the GPS PDA System.
- P. Ensuring DR & Backup of GPS PDA System.
- Q. Designing and Provisioning of all web services from GPS PDA Server to other systems of FD Odisha like FAMA & FWM etc. as per requirements.
- R. Designing web services, which are to be sourced from other servers of Govt. Departments and to be consumed by GPS PDA Server for its Web-GIS purpose.
- S. Generation of customized reports from GPS PDA System as per requirements.
- T. Training FD Odisha Staffs in operating and managing all the functionalities of Server Side Integration works of GPS PDAs.

1.3.3: Minimum Service Level Benchmarks:

1. The complete supply inclusive of hardware and software to be deployed should be completed within a 90-day period.
2. In normal circumstance at no point of time within the contract period, the number of faulty device should be more than 10% of the total numbers of the device supplied by the firm.
3. All issues of Device maintenance, support is to be resolved by the firm maximum within 48 Hours of raising the issues by the field clients.
4. All issues of server / web side issues are to be resolved by the firm maximum within 12 Hours of raising the issues by FITGC and field clients.
5. A Minimum 10 % Extra of the supplied devices is to be maintained by the firm in its local office at Bhubaneswar for effective services and replacements of spares.
6. All types of regular Device maintenance shall be carried out in the field or Bhubaneswar local office only.
7. The firm must deploy minimum one technically competent person per 100-150 devices, for training, service, maintenance and support.
8. Cost of transport and security of the transport of faulty devices for maintenance is to be borne by the firm only.

CHAPTER 2

2.1 Pre-Qualification Criteria:

- A. The responding firm should be registered as a Company in India and is in continuous operations for a period of at least 5 years as on the last date of response submission.
- B. The average annual turnover of the responding firm should be more than Rs. 5.00 Crores in IT Sector for the last three consecutive financial years ending on 31.03.2017 or 31.03.16. This should be backed by audited balance sheets and profit & loss account for the same period.
- C. Over the past three years the responding firm should have supplied IT Products and / or Services with a cumulative value of Rs. 1.00 crores and with any single order exceeding Rs. 25.00 Lakhs, to any State Govt. / PSU / Central Govt. / Govt. Educational Institution / Reputed Corporates in India.
- D. The responding firm should submit all valid documentary proof of Certificate of Registration of Company, Service Tax, Sales Tax / VAT / GST and the details of Income Tax Registration Number (PAN), and Audited Balance Sheet for last three financial years.
- E. The responding firm needs to submit profile with all contact details, list of clients, assignments undertaken / under progress / completed and Equipments Supplied (with scope of works undertaken).
- F. The responding firm should have an ISO certification for IT Business and Minimum 5 Years of Continuous Business and Experience in IT Hardware Manufacturing / Integration or Sales / Survey & Scientific Hardware Manufacturing or Sales / Software Development / IT or ITES Services. (Attached copy of certification / credentials are to be provided).
- G. No Consortium or Collaborative Bid is allowed in this tender.
- H. The responding firm shall be the Single Point of Contact for PCCF, Odisha and shall be solely responsible for all warranties, upgrades, patches and guarantees etc. offered by the OEM / Exporter / Reseller etc. An undertaking must be attached to this effect.
- I. The responding firm should have a fully functional local office in Bhubaneswar or should give an undertaking to establish a local office in Bhubaneswar within three months of signing the contract with FD Odisha. Full details of local office are to be provided.

- J. The bidder must specify its complete compliance regarding the Minimum Technical specification and functionality of the Devices as mentioned in the Specifications, Functionality and Service Benchmark in this tender.
- K. Demo & Presentation of the Device System:
The bidder must Present the device in the Presentation of Technical Bid Opening:-
1. Two Numbers of Fully Working Devices and cross-reference of their readings with respect to predefined points.
 2. Spec. Sheets of the Onboard Components of the Device with respect to Min. Tech Spec.
- L. The bidder must give an undertaking mentioning that it can complete the project inclusive of all hardware and software components within 90 days of issue of Purchase order.
- M. The Bidder must undertake to abide by the IT Policy 2014 of Govt. of Odisha.
- N. The Bidder must not be blacklisted by any state Govt., Central Govt., PSUs, Govt. Institutions and Corporate Organizations. An undertaking to this effect is to be provided by the firm's Authorized Signatory.
- O. All submitted documents are to be signed by the authorized signatory of the firm who is duly approved by the Company's Board or Proprietor himself.
- P. The respondent must fulfill the above qualification conditions for evaluation of their responses. Technical bids will be evaluated only for participants who are meeting the Pre-Qualification Criteria only.
- Q. Bid Selection shall be based on Least Quoted Cost Criteria Only.
- R. Response of responders fulfilling the above eligibility/ pre-qualification Conditions will only be evaluated by the duly constituted evaluation committee. Responses of the responders not fulfilling the eligibility/ pre-qualification conditions given above shall be summarily rejected.
- 2.2** The authority reserves all right to change/amend any requirements or clauses as is required for the execution of the project and such changes would be notified only to the participants of this Tender.
- 2.3** The authority reserves the right to accept or reject the part of the tender or whole tender at any stage of the tender.

CHAPTER 3

3.1 Responses to this RFP / Tender:

A. Envelop 1: RESPONSE TO PRE QUALIFICATION CRITERIA:

1. A Sealed envelope marked as PRE- QUALIFICATION CRITERIA and containing proof of all items mentioned in **Section 2.1** organized serially.
2. It must contain a copy of the original tender document, with a sign of the bidder on each page as consent to bid as per this tender's T & C.
3. Bank Draft of Rs. 5,000/ drawn in favour of PCCF, Odisha as cost of the Tender Paper.
4. EMD in the form a Bank Guarantee from a Local Branch of a Nationalized Bank, in favor of Principal Chief Conservator of Forest, Odisha, for an amount of **Rs. 5,00,000/-**

B. Envelope-2: RESPONSE TO TECHNICAL CRITERIA:

1. Sealed Envelope marked as TECHNICAL RESPONSE containing the Technical Compliance, Support and Service Compliances, Service Level Bench Marks, Proposed Solutions, and Product / Components Brochures.
2. Proof & Compliance of the documents should be organized exactly in the same serial as mentioned in the section of **1.3.1, 1.3.2, 1.3.3 of Chapter-1** of this tender and the technical bid should mandatorily comprise of the followings:
 - a. Technical Details of the Products, System Integration and the Deployment Architecture.
 - b. Detailed Technical Specifications of the Products and Technical Solutions
 - c. Training, Maintenance, Support and Service Framework
 - d. Submission of Product Models for Evaluation and Testing.
 - e. Demonstration of Similar Projects undertaken by the Firm (Full Blooded Live demo is preferred)
 - f. Demonstration of other IT Service Project Undertaken by the Firm (Full Blooded Live demo is preferred)
 - g. Completion and Delivery Schedule in consonance with the tender requirements.

C. Envelope 3 – FINANCIAL BID (RESPONSE):

1. Sealed Envelope marked as FINANCIAL BID and should have the Financial Offerings exactly in the exact Format as illustrated in **this tender document only** (signed by Authorized signatory) along with Power of Attorney.
2. Financial bid submitted in any other format shall not be evaluated leading to a non-responsive bid.

D. Tender BID Envelop- 4: On this envelop, Tender Number, respondent's name & address should be clearly marked on the top of all the envelopes. All other envelopes prepared as described above (Envelop 1, 2 and 3) shall be put in this sealed envelope and submitted on or before the last date of submission by Registered Post / Courier / Authorized Person.

3.2 Bid Evaluation Process:

1. Bidders will first be evaluated for Prequalification Criteria containing in Envelope 1.
2. If successful in General Bid, then only the technical bid Envelope 2 will be opened for technical evaluation.
3. Technical Evaluation involves the verification of submitted documents of technical compliances in the technical bid, and also a technical presentation of the proposed solution by the Bidder to the technical / purchase committee of the tender evaluation.
4. Financial Bid Envelope 3 will only be opened for those bidders, who are successful in Technical Bids.
5. Time of opening the financial bid will be duly intimated only after the evaluation of all technical bids.
6. Bids submitted after the last date will be summarily rejected and only those offers which are submitted within the date and time of submission as mentioned in this tender document will be evaluated.
7. Any deviation by bidders in organizing the documents as mentioned above may lead to cancellation of such bids.
8. Financial Bid should be Valid for a Period of One Year from the date of opening the Financial Bid, failure of which the bid will be treated as non-responsive.
9. Financial Bid will be evaluated only as per the Purchase of Goods Guidelines of Finance Department, Govt. of Odisha.
10. Lowest cost bidder doesn't have any claim to supply the goods as PCCF Odisha and Govt. have full right to terminate the bid at any point of time.

Prescribed Financial Bid Format:

**Financial BID Format
(To be submitted on Company's Legal Letterhead)**

Item	Pre-Tax Cost Per Device (Rs)	Taxes Per Device * (Rs)	Total Cost Per Device (Rs)
GAGAN-SBAS Enabled Rugged GPS-PDA per unit, inclusive of three years full comprehensive warranty and field support from date of supply of fully working devices as per intended Specifications, functionalities, all server side integrations, all scope of works and service level bench mark as per this tender No.....Dtd. Of PCCF Odisha. The quoted cost is valid for a period of One Year from the date of Opening the BID.	(In Figure and Words)	(In Figure and Words)	(In Figure and Words)

Signature of the Authorized Signatory

Seal of the Company

Contact and Address of the Authorized Signatory and Company

* Current Tax Rate & Its Types are to be clearly mentioned.

Chapter-4

4.1 General Terms and Condition of the Tender

- A. **Amendments to Invitation of Bid:** At any time prior to the deadline for submission of bids, Authorized Officer reserves the right to add / modify / delete any portion of this document by issuance of an addendum, which would be published on the web site and will also be made available to the all the bidders who have indicated their intention to bid. The addendum shall be binding on all bidders.
- B. **Pre-Bid Queries:** The purchaser is not bound to answer all pre-bid queries. All relevant queries will be clarified in the scheduled pre-bid conference. If any amendment takes place with respect to pre-bid queries, it will be published in the website of the department only as mentioned in the previous clause and bidders are requested to visit the website to ascertain the updates on the tender.
- C. **Financial Bid** - Unsigned, unstamped or illegible financial bids would be summarily rejected. Financial bids should be submitted only in the official letterhead of the company. Financial bids should be signed by the authorized signatory of the company and **Power of Attorney** for the same needs to be provided along with the RFQ document. All pages of the blank original RFQ document and the Response of the Bidder need to be signed by the authorized signatory or else the bid will stand cancelled.
- D. **Submitting Bids in format other than prescribed format shall lead to a non-responsive Bid and is liable for rejection**
- E. **Performance Guarantee:** Successful Bidder awarded the project would have to provide a Performance guarantee of 10% from a Scheduled nationalized Bank in India in the form of an unconditional bank guarantee favoring PCCF and any failure of the bidder to adhere to the terms of delivery and technical requirements or as enumerated in the agreement to be signed between the successful bidder and PCCF would lead to encashment of the bank Guarantee and blacklisting of the firm.
- F. **Support Services:** The devices to be transported at the cost of the firm to the firm's registered service Centre at Bhubaneswar for scheduled and unscheduled maintenance during the warranty period of three Years. For onsite maintenance of the devices within warranty period if necessary, only the available Govt. accommodation will be

provided by the Odisha Forest Department.

G. Submission and Opening of Responses:

- A. The responses complete in all respects addressed to The Chief Conservator of Forest, IT & GIS, o/o PCCF Odisha, Aranya Bhawan, Bhubaneswar and should reach him by the date and time fixed as per the Schedule of Events of this Tender only.
- B. All the Events of the bidding process will be conducted as per the date and time stipulated in the Schedule of Events of this RFP only.
- C. PCCF Odisha, reserves the right to accept or reject the whole; accept or reject part of any or all responses at its sole discretion without assigning any reason whatsoever.
- D. Duly constituted evaluation committee set up by PCCF, Odisha will evaluate the responses including the proposed supply.
- E. The tenders will be opened as per the schedule of the events mentioned in the tender. These respondents may be called to present the solution proposed by them to the said committee at their own cost at a specified date, time and venue to be communicated to them at least three days in advance.
- F. The PCCF, Orissa and Government reserves all and the exclusive the rights to cancel this tender and call for fresh tender for the procurements of Rugged GPS PDAs at any stage and/or time.
- G. The PCCF, Orissa reserves the right to modify, expand, restrict, scrap, refloat the tender and /or float a new and/or separate tender without assigning any reason for the same.
- H. PCCF, Orissa at his discretion may use the complete proposed solution and/or a part of, technical specifications as submitted by any responder(s) with the response(s) for tendering. The said usage does not confer any right and/or claim of any sort and/or manner on the responder(s) for this RFQ and/or tender irrespective of the outcome of this RFQ.
- I. The respondent shall bear all costs associated with the preparation and

submission of its response, and PCCF will in no case be responsible or liable for these costs, regardless of the conduct or the outcome of the RFQ process.

4.2 Payment Terms

- A. 60 % payments will be released within 120 days of receipt of the complete GPS PDA System with all necessary server side integrations from the vendor under perfect functionality, integrity and working conditions. Balance will be released within next 2 years with half yearly equal installments based on the performance of the Supplied GPS PDA System.
- B. The above Payment term is subject to modification before the supply contract is finalized, as per the sole direction of PCCF Odisha / Govt. of Odisha.

4.3 Governing Law and Disputes

- A. The responses and any contract resulting there-from shall be governed by and construed according to the Indian Laws.
- B. All disputes or differences whatsoever arising between the parties (i.e. the PCCF and the Respondent) out of or in relation to the construction, meaning and operation or effect of this RFQ Document or breach thereof, shall be settled amicably. If, however, the parties as above are not able to resolve them amicably, the same shall be settled by arbitration in accordance with the applicable Indian Laws, and the award made in pursuance thereof shall be binding on the parties, as above.
- C. The Arbitrator/s shall give a seasoned award. Any appeal will be subject to the exclusive jurisdiction of the courts of Bhubaneswar, Odisha Only.
- D. The successful Responder shall continue work under the contract during the arbitration proceedings unless otherwise directed in writing by the PCCF, Odisha
- E. The venue of the arbitration shall be in Bhubaneswar, Odisha and shall be governed by the rules as specified by Indian Council of Arbitration.

4.4 Corrupt or Fraudulent Practices

- A. Responders & Vendors shall observe the highest standard of ethics, professionalism

and conduct during the procurement and execution of this contract.

- B. PCCF, Odisha will reject a proposal for award if it determines that the Responder recommended for award is engaged in corrupt or fraudulent practices in competing for the contract in question.
- C. PCCF, Odisha will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm was engaged in corrupt or fraudulent practices in competing for this response, or in executing the contract.

4.5 Indemnity Clause

- A. The firm should sign an indemnity bond to safeguard against any pirated software, equipment, design etc. being supplied to the PCCF, Odisha.
- B. The selected vendor shall indemnify PCCF, Odisha against all third party claims of infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied software/ hardware/manpower etc. and related services or any part thereof.

4.6 Force Majeure Clause:

If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics quarantine restrictions, strikes, lockouts or acts of God (hereinafter referred to as "events"), provided notice of happenings of any such event is duly endorsed by the appropriate authorities /chamber of commerce in the country of the party giving notice, is given by party seeking concession to the other as soon as practicable, but within 21 days from the date of occurrence and termination thereof and satisfies the party adequately of the measures taken by it, neither party shall, by reason of such event, be entitled to terminate this contract, nor shall either party have any claim for damages against the other in respect of such nonperformance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist and the decision of the purchaser as to whether the deliveries have so resumed or not, shall be final and conclusive, provided further, that if the performance in whole or in part or any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, the purchaser may at his option, terminate the contract.

Chapter-5

Innovations:

The successful vendors/firms needs to be proactive while rendering services and must be innovative while doing the developments & consulting. They should suggest various enhancements to the existing scope, functionality and Tech. Spec. of the GPS PDA which would be useful for PCCF Odisha and Citizens in terms of development & integration of GIS Operation in Forest Department of Odisha. It is expected that the firms will provide an artistic touch of perfection in conceptualization, design, production and servicing of the device.

Like the previous procurement of 600 numbers of Rugged GPS PDAs, the Present RFP / Tender is an attempt by the Odisha Forest Department to promote Indian Firms to be innovative and competitive in indigenizing GNSS / GPS Products and Services under our “Make in India Initiatives” catering to Forest and Wildlife Conservation.

We request that the firm may please venture the following Innovations in future:

- A.** Integrating a Spotting Scope, Laser Range Finder, GPS and Camera into an all-in-one device (LRF-GPS-Scope) to range, image and geo-locate distant and in accessible objects. This device must be Wi-Fi & Mobile NW enabled for transmitting field data to a central server. Such products does exist in the current market but very few Hi-tech Multinational Corporations manufacture and sale them at an exorbitant price. Primarily these are largely used by military and paramilitary organizations. There are vast scope of use of such a devices in Forestry and Wildlife Management.
- B.** Automated and High speed Satellite Image Processing using Open Source SW Products for detection of changes in land use pattern and geo-morphological changes, using High Performance GPU based Computing and the automated delivery of change detection information to client desktops and mobiles using mobile Internet and standard GSM messaging platform. This particular need arises from the huge time lag between our satellite image procurement and delivery of change detection information to the decision makers and enforcement agencies.

Though the above works are not within the scope of procurement under this RFP / Tender, still the vendor can quote a suggested price with the demonstration of prototypes

of above innovations, which may be on his anvil, but with a definite possibility of small-scale commercial production. Innovations of the Firms / Vendors is highly respected by Odisha Forest Department and it will be used to rate the vendors for Future Procurements. It is to be noted that the innovation are to be carried out by the firm at their own expenses only. Bearing the cost of Product or Service Innovation is not at all under the scope of this RFP / Tender.

We expect Rational and Competitive Biddings for Supplying GAGAN-SBAS Rugged GPS PDAs as per this tender's T & C from all Eligible and Innovative Firms.

With Best Wishes

Bhubaneswar:
Dtd. 18th May, 2017

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