



Selection of Service Provider for Establishing Continuously Operating Reference Stations (CORS) Network System in Jaggayyapeta Mandal, Krishna District, Andhra Pradesh

**For
Survey, Settlement and Land Records (SSLR) Department**

Request for Proposal

October 2018

**Volume I and Volume II
Functional Specifications and Commercial and Bidding Terms**

**Andhra Pradesh Technology Services Limited
R&B Bldg, 3rd Floor, Labbipet, Vijayawada - 520010, India.
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RFP Structure

This RFP is meant to invite proposals from interested companies capable of delivering the services described herein. The content of this RFP has been documented as a set of three volumes explained below:

Volume I: Functional, Technical and Operational Requirements (Multiple sub-volumes)

Volume I of RFP intends to bring out all the details with respect to solution and other requirements that Survey, Settlement and Land Records (SSLR) department deems necessary to share with the potential bidders. The information set out in this volume has been broadly categorized as Functional, Technical, and Operational covering multiple aspects of the requirements.

Volume II: Commercial and Bidding Terms

Volume II of RFP details the General Terms and Conditions with respect to bid process management including Project Implementation, Financial Terms, Evaluation Criteria and Bid Submission forms to be adopted for the proposed project.

Volume III: Contractual and Legal Specifications

Volume III of RFP details out the Draft Contract for the proposed engagement and outlines the contractual, legal terms & conditions applicable for the proposed engagement.

This volume is Volume I & II.

Kindly note that all three volumes of the RFP have to be read in conjunction as there are cross references on sections in these volumes. The selected System Integrator will be solely responsible for any gaps in scope coverage caused by not referring to all three volumes.

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RFP Datasheet

S. No	Information	Details
1.	Publishing of RFP through e-tender	16.10.2018
2.	RFP reference No and Date	APTS-20021/12/2018-E PROC-APTS
3.	Last date and time for submission of queries for clarifications	24.10.2018, 05.00PM
4.	Date, time and venue of pre-bid meeting	25.10.2018, 10.00AM at APTS R&B Bldg, 3rd Floor, Labbipet, Vijayawada - 520010
5.	Release of response to clarifications for the queries received	29.10.2018
6.	Last date, time (deadline) and venue for receipt of proposals in response to this RFP notice through e-procurement portal, GoAP	12.11.2018, 3.00PM
7.	Date and Time of submission of original copies of EMD (Physical Copy), tender document fee(Physical Copy)and 1 hard copies of Technical Proposal and One Softcopy to the O/o MD APTS	12.11.2018, 3.30PM
8.	Date and time of opening of Pre-Qualification Bids on e-Procurement platform bids	12.11.2018, 4.00PM
9.	Date and time of opening of Technical Bids on e-Procurement platform bids	To be communicated through email.
10.	Time and Date Technical Presentations by the bidders	Detailed Agenda and other details for the presentations would be shared separately to the bidders.
11.	Date and Time of Opening of Financial Bid on e-Procurement platform	To be communicated to the TQ qualified bidders through email.
12.	Non-Refundable Tender Cost	Rs.25,000/- (Rupees Twenty Five Thousand only) (DD in the name of Managing

		Director, Andhra Pradesh Technology Services Limited payable at Vijayawada.
13.	EMD	Rs.5,00,000/- (Rupees Five Lakhs only) (BG in the name of Managing Director, Andhra Pradesh Technology Services Limited payable at Vijayawada. BG shall be in the prescribed format only. Scanned copy of EMD document should be uploaded on e-Procurement website. The Original Copy of EMD should be submitted to APTS as mentioned above.
14.	Contact person for queries	Mr P Venkateswara Reddy, Venkateswarareddy.P@gov.in; 9963029410
15.	Locations for opening of technical bids and Financial bids	On e-procurement Website
16.	Contract period	The Contract Period is of 2 Years from the date of Commissioning of CORS for Phase I Locations The contract may be extended on yearly basis if the Government intends for AMC and O&M as per the contract prices. The bidder may also be given additional locations in addition to Phase I based on the performance in Phase I Locations.
17.	Commissioning of CORS for Phase –I Locations	2 Months
18.	Implementation cum Performance Guarantee Value & Validity Period	<ol style="list-style-type: none"> 1. PBG validity: 90 days beyond contract period 2. PBG value: 10 % of the total value of the bid. 3. Submission of PBG: Within 10 days of receipt of letter of notification of award
19.	Bid Validity Period	180 working days from the date of submission of online bids

1 Scope of Work

1.1 Introduction

The Commissioner of Survey, Settlements & Land Records (SSLR), Andhra Pradesh proposes to adopt modern technology in cadastral survey to facilitate faster and accurate survey of lands in Geo-Coordinate system to create uniqueness for a land parcel and to assign a unique number called “Bhudhaar” for the first time in India.

As part of this endeavour, it is proposed to set up Global Navigation Satellite System (GNSS) Continuously Operating Reference Stations (CORS) Network (RTK) system in a phased manner in Andhra Pradesh and thereafter, to carry out survey work using Differential Global Position Systems (DGPS) equipment's in open/ semi- open areas and using ETS in built-up areas/ areas covered by foliage.

The Project is envisaged in two different Phases:

- a) Phase 1: As a Pilot basis, in the 1st phase it is proposed that network will be established initially in Jaggayyapeta Mandal of Krishna District. The Network and outsourcing of survey subdivision work will be extended to entire Krishna District after proof of concept is developed and established.
- b) Phase 2: Once the system is stabilized in Jaggayyapeta Mandal and subsequently in Krishna district and after developing of proof of concept, the same Network will be extended and established in whole of Andhra Pradesh in the 2nd phase by a separate tender.

This tender is called for the implementation of 1st Phase only.

It is a turnkey project to

- a) Design, Procure, Install and Commission a suitable GNSS CORS Network for Real time Kinematic (RTK) system with the central server and related software, initially in Jaggayyapeta Mandal(271.39 Sq.km), and extendable on same terms and conditions to entire Krishna District (8727 Sq Km).
- b) Operate & maintain the established Network system for specific period as mentioned in Bid Data Sheet
- c) Take up survey subdivision of Agricultural lands on need based on incremental approach by way of geo-referencing of land parcels.

This RFP is limited to establishing (4) Network CORS Base stations to cover entire Jaggayyapeta Mandal and Krishna District.

The selected agency shall also provide service to carry out need based survey on incremental approach for work based on geo referencing on payment of prescribed Fee as per fixed unit cost through this Tender process.

1.2 Establishing CORS Network System and Design and Install GNSS Receivers by CORS Network

- a) **Establishing CORS Network (RTK) System** in Jaggayyapeta Mandal and subject to its successful completion and realization of expected outcomes, rolling out to cover the entire Krishna district.
- b) Detailed field study to identify suitable locations preferably rooftops (based on location information provided by the CSSLR) to design and install (4) GNSS receivers to cover the entire Jaggayyapeta Mandal and Krishna District by CORS network. The location could be any of the Government buildings or as chosen within Krishna District.
- c) **Planning and designing of network RTK system of CORS** for the entire Jaggayyapeta Mandal and Krishna District and a Network Operation Center to be established in the Government of Andhra Pradesh Data Centre. It should include Central Server with all accessories, hardware and software required for operating CORS network. The design will be subjected to the approval of the expert committee to be appointed by the CSSLR.
- d) The design, quality and specifications should be as per UNAVCO guidelines and the bidder should give detailed specifications to establish the Network Operation Center (Control Center) with a capability to handle at least 1000 Network users and 350 concurrent users.
- e) Supply, installation, integration and commissioning of (4) numbers of GNSS CORS Receiver, Choke Ring Antenna, Central Server, Software and all other accessories and Control center as per the detailed specifications given in **this RFP**. However, the CSSLR may increase or decrease the order quantity up to 25% on same terms and conditions.
- f) The proposed Network shall be compatible with the available infrastructure, namely, 20 Receivers of Leica brand made as Rovers, which have already been procured by the department, and survey sub-division work will be carried out by utilizing these Receivers initially.
- g) The GNSS receivers of CORS supplied should be compatible with all the DGPS equipment's of RTCM protocol available in the department (specifications given

- in Annexure A) and also available in market. i.e. they should be vendor neutral with respect to the GNSS base and receivers to be used in cadastral survey.
- h) The Geo-coordinates of all vertices of a land holding shall be recorded using high precision Differential Global Positioning system in network RTK using prescribed CORS network.
 - i) The geo-referenced data generated by observation with using CORS network will be maintained in database format integrated with the spatial data available in the department and Record of Rights.
 - j) The Bidder or any member of consortium should have Manufacturer's authorization and a direct back to back support agreement with OEM for the equipment and also carry the required survey and sub-division work by geo-referencing of the land parcel.
 - k) Once the concept is proved and stabilised in Jaggayyapeta Mandal within expected stipulated period (3 months), the same Network and the arrangement of out sourcing of survey sub-division work will be extended to entire Krishna district and will be entrusted to the same agency on the similar terms & conditions finalised through this Tender. Phased implementation of works is given in the Project Schedule.
 - l) The end goal of the project involves Geo-referencing the individual parcels of agricultural land and assigning permanent Bhudhaar numbers to each parcel, using the CORS network and GPRS technology. A diagram showing the proposed process flow and workflow to depict the geo-referencing methodology, is provided in **Annexure** for ready reference.

1.3 Control Center Software

The bidder shall provide GNSS CORS network software to meet the requirements at the receivers and control center with proven compatibility between all components of the whole system. The design is subject to the approval of the expert committee appointed by the CSSLR. The bidder shall Develop and/or customize the application software for providing cadastral services and to integrate the same with BhuSeva portal. (www.bhuseva.ap.gov.in). The bidder should include Central Server with all accessories, hardware and software required for operating CORS network. Some of the key specifications of Control Center Software are as follows:

- a) Should support all the existing GNSS constellations. Software upgrades for new constellations should be done as and when it becomes operational in

- future.
- b) User management module with Administrators, Users and Guest users given different privileges of usage.
 - c) The software shall create the logs of individual actions and transactions of all the users and events. User access shall be web based with provisions to register for service and follow up online.
 - d) Computes in real-time a global adjustment of the network for best estimation of all GPS errors. GNSS Software shall apply Ocean Tide Loading and Earth Tide Loading.
 - e) Generates Network RTK and DGPS corrections for end-users following different service levels.
 - f) The GNSS Software shall generate different type of corrections to allow different kind of services like DGPS corrections in RTCM v2.x format, RTK corrections in various standard format (RTCM v2.x, RTCM v3.x) and automatic selection of best cell for Network RTK corrections.
 - g) Graphical representation of all the receivers.
 - h) Map-views must include background map for a better visibility of the network.
 - i) "Drag and Drop" option for better configuration and organization of system setup in UI.
 - j) Shall have option to control GNSS receivers directly and remotely. The reference station receivers shall be accessed for firmware up-gradation or data remotely.
 - k) Downloads raw data, analyzes, reformats, archives and distributes GPS data via a ftp and web-server.
 - l) Generates event logs, alarms & warnings on receiver status, network status and data quality status.
 - m) Provision to restore transit data if there is any failure in real time data transfer and watchdog support for automated restart of services in case of failure.
 - n) Software shall have the facility to communicate to field users via NTRIP Caster/Server/Client, Cellular, Radio modem, Individual dial-up connection, Internet, Intranet and LAN.
 - o) Support for data formats and files generated by Industry standard receivers of other vendors and facilitate initialization in less than one minute with accuracy of 1-3cm.
 - p) Mobile Browser Support on all available Mobile OS.
 - q) Mobile App (Android & iOS): if available, to be customized or if not available, to be developed. The mobile app is for usage of field surveyors and back office MIS work.
 - r) The Application Should be capable of handling at least 1000 Network users and 500 concurrent users.
 - s) Should have provision to integrate with Payment Gateways or Mobile Wallet set.

- t) The software should conform to security standards prescribed by GoI, DeitY.
- u) Availability of network RTK service shall be 24X7 with a reliability of more than 95% computed on monthly basis. The above specifications are minimum requirements. The bidders should offer software strictly meeting the above requirements or with better specifications.
- v) The software should be from OEM. All the licenses for software should be perpetual and valid for life long
- w) Any item specifically stated in the specification but which are necessary for satisfactory operation shall deem to be included in the scope of supply and hence should be supplied
- x) Absolute ownership rights of the CORS network and software and licenses shall be with CSSLRs.
- y) Intellectual Property Rights of the Proof of Concept shall be with SSLR and the department shall register the IPR with concerned Authority.

1.4 Operations and Maintenance

- a) The bidder shall operate and maintain the established CORS Network system for a period as specified in the Bid Data Sheet.
- b) The bidder shall deploy two persons in the control center to be set up at the office of the CSSLR of Survey & Settlement during office hours on full time basis.
- c) Seamless operation and maintenance of the network should be ensured 24X7 for entire duration of the contract from the date of establishing the network.
- d) All equipment and its accessories should have a warranty and onsite maintenance support for a period of 2 years from the date of Commissioning and acceptance by the CSSLR. During the warranty and maintenance period, the bidder should provide all necessary support services as and when required by the CSSLR.
- e) All equipment's should be supplied to the designated locations free from breakages, malfunctions and manufacturing defects. If any equipment is found defective, at the time and place of supply, it should be replaced.
- f) Firmware should be updated for all global constellations as and when it becomes operational at free of cost.
- g) During warranty period, the successful bidder should attend any call from CSSLR of Survey, Settlements & Land Records immediately, in case of any problems, related to operation or malfunctioning of equipment's supplied, without any delay for regular functioning of the equipment's. The above services should be done at free of cost
- h) The bidder shall provide training (Capacity building) to staff of the Survey & Land Records Department and Land Revenue Department. As prescribed by the

CSSLR at least 5 persons per Receiver Station should be provided training on the operation and maintenance of equipment's and CORS system including software.

1.5 Need Based Survey

- a) To provide need-based incremental survey services to the Citizens, conforming to the standards and QoS norms specified for the following:

S.No	Description	Unit
1.	Patta sub-division creation after mutation/while mutation	up to Acre 2.00
		Acre 2.00 to Acre 5.00
		Above Acre 5.00
2.	Land Acquisition	
a)	Canal/Roads/Railways etc.. (narrow fields)	1 kilometre
b)	APIIC/Other Industrial Purposes	1acre
c)	Submerged areas in irrigation projects	1acre
d)	R&R Packages(Layout)	10 Plots
e)	Submerged Habitations Survey	10 Plots
3.	Land Alienation	1 Acre
4.	Rebuilding of FM Sketches by ground survey	1 Acre

- b) To create an open Standards based eco-system of geo-referencing that can be leveraged by entrepreneurs, start-ups and developers to provide wide range of innovative location based services to the Citizens, Businesses and Government.
- c) To create an enabling environment for other departments of the Government to leverage the infrastructure created.
- d) The details of work load for Geo-referencing in Mutation cases and Govt./Govt. related lands in Jaggayyapeta Mandal and Krishna district are given in **Annexure C to Annexure F**

1.6 Roles of Service Provider/Consortium Partners

Keeping in view the varied nature of the different activities involved in the geo-referencing of land parcels on an efficient, cost-effective and sustainable manner, this RFP permits bidding by a consortium of Service Providers

- a) OEM of the CORS/ GPRS Equipment or an authorized Service Provider thereof, who shall act as the Principal Bidder and be solely responsible to the CSS&LR, for the execution of the project;
- b) GIS Service Provider, with expertise and experience in development of GIS maps, basing on the geo-referencing work done in the field surveys, on an incremental

- manner, and also developing a GIS layer, mosaicking the individual parcels in an incremental and progressive manner;
- c) GPRS Service Provider, who shall be responsible for conducting field surveys in an incremental/ need-based manner to measure, report and record the geo-coordinates of all the vertices of each land parcel assigned to him in an incremental/ need-based manner.

While the following paragraphs describe the overall responsibility of the Service Providers in completing the work on an end-to-end basis, which may involve the members of the Consortium at different points of the project work/ tasks, it is reiterated that the **Principal Bidder (OEM / Authorized Dealer thereof) shall be solely responsible to the CSS&LR for the completion of the entire scope of work defined in this RFP.**

- d) Design suitable architecture of CORS Network(RTK) system to supply, install, commission, operate and maintain entire Network system including Control center, Central Server, Software, Hardware and all accessories.
- e) Deploy the qualified DGPS survey experts to attend the survey subdivision work entrusted by the Survey /Revenue officers and District Administration from time to time. The existing and anticipated workloads in Jaggayapeta mandal and in Krishna District are shown in **Annexures C to Annexures F**
- f) To attend the geo-referencing work relating to survey applications entrusted to them as and when people apply through Mee-Seva.
- g) Shall appoint a designated person who should be available at District/Revenue Divisional Level to facilitate the quality check by the departmental officer and supervise the day to day work. (There are xx Revenue Divisions in Krishna District)
- h) The designated persons thus appointed shall also be available to RDO / Dy.IoS at Divisional Level and Joint Collector / Assistant Director(S&LR) at District Level.
- i) Shall attend any survey work entrusted by the respective Joint Collectors/AD S&LRs as per the need based and ongoing requirements with the prior approval of CSSLRs.
- j) Shall cooperate with Revenue or Survey officials conducting quality check operations.
- k) The Service Provider has to conduct survey as per the procedure prescribed in A.P.Survey & Boundaries Act, 1923, A.P. Survey Manual, BSO-34A and

- instructions issued by the Govt./DSSLR from time to time. Copies of these documents can be downloaded from www.bhuseva.ap.gov.in
- l) Rectifying the defects pointed out by the department during quality check with in the stipulated time (within 7 days) and resubmit the survey records wherever necessary.
 - m) To appoint required number of monitoring officers to ensure proper supervision to ensure the quality of work and complete with in the time lines.
 - n) The bidder is responsible for payment of Electricity Bills at the locations where CORS is commissioned.
 - o) The Service Level Agreement is 30 working days from the date of application filed by the applicant in any MeeSeva center or through online or by orders issued by any competent authority to conduct survey. The Service Provider shall aim to complete the geo-referencing work within 15 days and make further effort to reduce time lines to less than a week.
 - p) The Service Provider shall establish at least one Primary GCP per Revenue Village as a Bench Mark to do QC work by Service provider and the Dept.
 - q) The Service Provider shall Integrate with existing MeeSeva Application.

1.7 Roles of Director/Commissioner of SSLR

- a) The Director/ Commissioner, SSLR acts as a State Level Nodal officer at state level to implement the proposed system.
- b) Issue instructions to the Service Provider and the field officials of Survey and revenue Departments, from time to time wherever and whenever necessary.
- c) Director/ Commissioner shall conduct review of overall performance of the service provider from time to time.
- d) Issues instructions to provide required support and availability of domain knowledge to the service provider in execution of the project and clarifications during the stabilization of the system.
- e) The Department shall provide Power at Mains for identified locations where CORS will be commissioned.

1.8 Roles of District Administrator and Tahsildar

- a) The Joint Collector acts as Nodal Officer at District level assisted by the Assistant Director(SSLR) and Tahsildar concerned as Nodal Officer at Mandal for conducting survey sub-division work.

- b) Joint Collector with the assistance of Asst Director SSLR shall coordinate with Tahsildar concerned for resolving any issues.
- c) The AD(SSLRs) issues clarification relating to survey work entrusted to the service provider in consultation with Joint Collector/RDD within the prescribed time.
- d) The Tahsildar who is the custodian of survey records shall provide necessary records & information about the survey work entrusted to the service provider, if not available on online duly informing the AD SSLR and Joint Collector
- e) Maintain Log register for issue & receiving of FMBs/files, if hard copies are provided.
- f) The completion report submitted by the service provider shall be updated online immediately by the Surveyor/Tahsildar concerned as per the SOP.
- g) The AD(SSLR) and Surveyors shall extend necessary assistance to the service provider in matters requiring domain knowledge.
- h) The AD(SSLRs) establish Helpdesk with Technical support to clear doubts of Service provider/agency at any point of time.
- i) The Joint Collector releases the prescribed fee to the selected Service Provider as per the terms and conditions of the agreement. The AD(SSLRs), Dy.IoS and Mandal Surveyor are the contact persons at District, Division and Mandal level respectively to clarify any survey related issues.
- j) The payment shall be monthwise and within a period of 30 days of submission of invoice by the service provider. Payments will be made through an online payment system basing on deliverables, and duly applying the relevant SLAs.
- k) The QC work shall be taken up by the SLR dept. as per norms.

1.9 Roles of MeeSeva

Meeseva shall make provision to forward the applications received in addition to the existing process flow to the concerned Service Provider/agency as and when received from the applicants and the Agency is liable to be paid only if the work is completed before the time lines specified by the Government. The service provider shall work out compatibility of both Softwares.

2 Instructions to the Bidders

2.1 Introduction

The section aims to provide guidelines/Instructions for Bidders, while submitting the proposals. These are generic in nature, but Bidder is required to abide by them during the proposal submission and Project execution.

The bidder is expected and shall be deemed to have examined all instructions, forms, terms and specifications in this tender document. The bid should be precise, complete and in the prescribed format as per the requirement of the tender document. Failure to furnish all information required by the tender document or submission of a bid not responsive to the tender document in every respect will be at the Bidder's risk and may result in rejection of the bid. The Andhra Pradesh Technology Services Limited (APTS) shall at its sole discretion be entitled to determine the adequacy/ sufficiency of the information provided by the Bidder.

2.2 Language of bid

The proposal and various documents related to the RFP should be in English language only. All correspondence between APTS and the bidder would also be in English language. Supporting documents and printed literature furnished by the bidders shall be in English language or in case in another language they should be accompanied by an accurate translation in English language.

2.3 Validity of proposal

APTS requires that the proposal submitted in response to this document remain valid for acceptance for a period as specified in the RFP Datasheet from the date of submission of online bids. The bidders should state in their response, any longer period for which their response remains valid.

A proposal valid for shorter period may be rejected as non-responsive. APTS may seek the selected applicant's consent to an extension of proposal validity (but without the modification in proposals). Where the applicant claims confidentiality or seeks to reserve intellectual property rights in respect of any part of its response or requests such part should be treated as "confidential" or "commercial in confidence", they must:

- Clearly mark the part of the document in respect of which the claim is made
- State the basis of claim for confidentiality for each item marked (a blanket claim cannot be reasonably made)
- Convince APTS that such a claim is reasonable

2.4 Acceptance of Proposal

APTS reserves the right in its absolute discretion in relation to:

- Accepting or rejecting a response
- Seek written clarification from any or all of the bidders in relation to their responses, during the evaluation of bids
- Varying or discounting the procurement process if it deems reasonable conditions exist to do so
- Providing additional information to any or all bidders
- Cancelling, adding to or amending the information, requirements, terms, procedures or processes set out in this document. In such a case APTS shall publish these on the website and notify the bidders
- Identifying opportunities for collaborative responses to be offered for the delivery of specified services
- Re-Issue an open tender/RFP
- Waive any small/ minor informalities in the process

2.5 Fraud and corruption

APTS require that Bidder (Firm) selected through this RFP must observe the highest standards of ethics during the performance and execution of such contract. In pursuance of this policy, APTS define, for the purposes of this provision, the terms set forth as follows:

- “Corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of APTS or any personnel of Bidder in contract execution
- “Fraudulent practice” means a misrepresentation of facts, in order to influence a procurement process or the execution of a contract, to APTS , and includes collusive practice among Bidder designed to establish bids at artificially high or non-competitive levels and to deprive APTS of the benefits of free and open competition.

- “Unfair trade practices” means supply of services different from what is ordered on, or change in the Scope of work, which was given in this RFP.
- “Coercive practices” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the execution of contract.
- APTS will reject a proposal for award, if it determines that the Bidder/ recommended for award is engaged in corrupt, fraudulent, unfair, or coercive trade practices.

APTS will declare a Firm Blacklist either indefinitely or for a stated period of time, for awarding the contract, if it at any time determines that the Firm has engaged in corrupt, fraudulent and unfair trade practice in competing for, or in executing, the contract.

2.6 Amendment of Tender Document

At any time before the deadline for submission of bids, APTS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Tender Document by amending, modifying and/or supplementing the same. All prospective Bidders who have received this tender document shall be notified of any amendments by e-mail, and all such amendments shall be binding on them without any further act or deed on APTS part. Such amendments will also be available on the websites on which RFP notification is published. In the event of any amendment, APTS reserves the right to extend the deadline for the submission of the bids, in order to allow prospective Bidders reasonable time in which to take the amendment into account while preparing their bids. If APTS deems it appropriate to revise any part of this RFP or to issue additional data to clarify an interpretation of provisions of this RFP, it may issue supplements to RFP. Any such supplement shall be deemed to be incorporated by this reference into this RFP.

2.7 Clarification on RFP Response

During Technical and Commercial evaluation of the Proposals, APTS may, at its discretion, ask any Bidder for clarifications on their proposal.

2.8 Purchase of RFP documents

- i. The detailed bid documents would be made available online and interested bidders can download the detailed tender documents. Interested bidders can obtain the same upon payment of the non-refundable payment as mentioned in

- the bid data sheet while submitting their Bids/Responses in the form of Demand Draft drawn from any nationalized bank / scheduled bank in favor of “**The Managing Director Andhra Pradesh Technology Services Limited**”, Payable at Vijayawada towards bid document charges.
- ii. The bidder can directly take a DD and upload the scanned copy of the same at the time of submission of bids. However, the original has to be received at APTS before the deadline as mentioned in the BDS.
 - iii. The bids submitted by the bidder without furnishing the receipt of purchase of bid document will be summarily rejected. Also, the relevant bids submitted online will not be opened.
 - iv. The bid documents purchased by the bidders from APTS are not transferable.

2.9 Bid Participation

The Firm/ Applicant responsible for providing the overall solution shall be referred to as the Bidder

The Bidder will be the single point of contact under this contract and the responsibility for implementing and commissioning the complete solution shall lie with the Bidder. In case of any delays from any of the partners, Bidder shall be liable and should take complete ownership for execution of contract.

2.10 Bid Format

The Bid shall be submitted as per the formats provided in the RFP, shall be page numbered and Indexed with content table in the beginning.

2.11 Information for Proposal Submission

2.11.1 Contact Details

All inquiries concerning this procurement other than pre-bid queries are to be directed to the Managing Director, APTS for meetings, conferences or technical discussions. Unauthorized contact will be cause for immediate rejection of the proposer’s RFP response. Substantive questions will be dealt with in writing.

For further details and Bid documents please contact:

**Managing Director,
Andhra Pradesh Technology Services**

**R&B Bldg, 3rd Floor, Labbipet,
Vijayawada - 520010, India**

2.11.2 Authentication of Bid

The Proposal should be accompanied by a power-of-attorney in the name of the signatory of the Proposal by the bidder. A scanned copy of the power-of-attorney should also be uploaded on the e-Procurement portal along with the other documents.

2.12 Pre-Qualification Criteria

S. No	Particulars/ parameters	Documents to be submitted
Legal Entity		
1	The Prime Bidder should be a Company registered under the Indian Companies Act and shall be primarily in the business of manufacture/sales of GNSS/DGPS receivers. The Company should have been in business for at least 3 (three) financial years as on 31st March 2018.	Certificate of Incorporation of the Prime Bidder to be enclosed as per Form P2
2	Consortium partner(s) being an entity, it shall be either a Company or a Partnership (including LLP) under the Indian Companies Act or Partnership Act, respectively. Such entity or entities as the case may be, should have been in the business at least for 3 years as on 31st March 2018.	Certificate of Incorporation (for Companies) or copy of Partnership Deed (for Partnership) to be enclosed where Consortium partner is an entity as per Form P2 .
Consortium Composition		
3	This Bid mandatorily requires a Consortium. The Prime Bidder (System Integrator) has the option of collaborating with two entities as consortium partner. <ul style="list-style-type: none"> a) Consortium Partner with experience in GIS b) Consortium Partner with experience in domain of cadastral survey using DGPS 	Letter of association from consortium partner and MOU between consortium partner and prime bidder to be submitted along with the proposal.
Blacklisting		
4	The prime and consortium partners declared blacklisted/ ineligible/ debarred by any State/ Central Government or PSU or has been found to be engaged in activities or practices, which	Self-Declaration from the Prime and consortium partner as per the Form P5 in the Volume II of the RFP from authorized signatory of the firm to be

	are corrupt, fraudulent, Non Satisfactory work performed or any other unethical business practices, as on date of bid submission, shall not be eligible.	submitted
Financial Criterion for Prime Bidder and Consortium Partners		
5	The OEM Minimum annual sales per year should be at least Rs.10 Crores globally. The revenues should have accrued from GNSS/DGPS/ Installation of the equipment quoted in the bid.	The bidder should submit audited financial statements and a certificate of revenue composition for each of the 3 years as per Form P6 by the Auditor for FY 17-18, FY 16-17 and FY 15-.
6	In case of the Consortium Partner with experience in GIS, the Minimum annual turnover per year should be at least Rs.5 Crores in INDIA. The revenues should have accrued from GIS related activities.	The bidder should submit audited financial statements and a certificate of revenue composition for each of the 3 years as per Form P6 by the Auditor for FY 17-18, FY 16-17 and FY 15-.
7	In case of the Consortium Partner with experience in domain of cadastral survey using DGPS, the Minimum annual turnover per year should be at least Rs.5 Crores. The revenues should have accrued from GNSS/DGPS/ Installation of the equipment quoted in the bid.	The bidder should submit audited financial statements and a certificate of revenue composition for each of the 3 years as per Form P6 by the Auditor for FY 17-18, FY 16-17 and FY 15.
8	Prime Bidder and consortium members shall have positive net worth as on 31/03/2018 for the last three years.	The Prime Bidder and consortium Partners should submit audited financial statements and a certificate of revenue composition for each of the 3 years as per Form P6 by the Auditor for FY 17-18, FY 16-17 and FY 15.
Prior Experience		
9	The Prime Bidder/OEM/ OEM authorized distributor should have successfully commissioned or executing the supply and installation of a) at least 3CORS projects with each containing at least 5 reference stations in the past 3 years (FY 17-18,FY 16-17 and FY 15-16) globally.	Details of Experience of responding firm/ Project Citation for projects as per Form P8 supported with Work order and Proof of Go-live/ Project completion certificates/ Purchase Order/Authorized Dealership Certificate(in case of distributor) from client
10	The Prime Bidder/OEM/ consortium partner should have successfully executed atleast 1 Project in Cadastral Surveys using DGPS/CORS in the past 3 years globally (FY 17-18,FY 16-17 and FY 15-16).	Details of Experience of responding firm/ Project Citation for projects as per Form P8 supported with Work order and Proof of Go-live/ Project completion certificate from client

	<p>a) 1 Project in Cadastral Survey of 1 Crores (or)</p> <p>b) 2 Projects in Cadastral Survey of 60 Lakhs each (or)</p> <p>c) 3 Projects in Cadastral Survey of 40 lakhs each</p>	
11	<p>The Prime Bidder/OEM/ consortium partner should have successfully executed atleast</p> <p>d) 1 Project in GIS of 1 Crores (or)</p> <p>e) 2 Projects in GIS of 60 Lakhs each (or)</p> <p>f) 3 Projects in GIS of 40 lakhs each</p> <p>in the past 3 years in INDIA (FY 17-18,FY 16-17 and FY 15-16).</p>	<p>Details of Experience of responding firm/ Project Citation for projects as per Form P8 supported with Work order and Proof of Go-live/ Project completion certificate from client</p>
12	<p>The GIS Consortium partner should have minimum of 10 GIS Professionals as on bid calling date.</p>	<p>Self-Declaration from HR from GIS Consortium Partner</p>
13	<p>The Bidder should have Service support centers managed by own staff in all the Districts of Andhra Pradesh</p>	<p>The list of support centers containing Office Address, Telephone nos., contact person etc., shall be submitted as per Form P6</p> <p>In case if there is no support center, the bidder should give an undertaking to establish within 30 days from the date of award of contract.</p>
Declaration on PQ documents		
14	<p>Declaration as Per the G.O MS 12</p>	<p>Declaration to be submitted</p>
Conflict of Interest		
15	<p>The Prime Bidder shall not possess any conflict of interest with the Project that would adversely impact the ability of the Prime bidder or the Consortium Partner or both to complete the requirements as given in the RFP.</p>	<p>Prime bidder shall furnish an affirmative statement as to the absence of, actual or potential conflict of interest on the part of the SI or any prospective subcontractor due to prior, current, or proposed contracts, engagements, or affiliations with APTS.</p>
Bid Purchase		
16	<p>Proof of Bid Purchase</p>	<p>Receipt to be Submitted</p>
Local Presence		
17	<p>Local Presence</p>	<p>If the Prime bidder is not operating from Andhra Pradesh, should give an undertaking that the company would be establishing office and be working from</p>

		Andhra Pradesh and establish office within 30 days from the signing of contract.
Manufacturer's Authorization Form (MAF)		
18	Manufacturer's Authorization Form (MAF) to all the products as proposed in the Proposal.	The bidder should submit the MAF as per Form P10 for every product that is being proposed/ used as part of the project, as per the Form P10 attached in the RFP, specific to this tender issued by OEM/ Principal authorizing the bidder to submit the bid for tendering which is deemed as an agreement in between the bidder and OEM/ Principal for the support and spares till the warranty period.

Note: (The foreign exchange rate to be used for conversion in INR should be average of last 3 months as per the exchange rates of the Reserve Bank of India (<http://www.rbi.org.in/scripts/referenceratearchive.aspx>), from the date of issue of the RFP document)

Definitions

S No	Parameter	Qualification Criteria
1	Prime Bidder	<ul style="list-style-type: none"> - Prime bidder Shall be the SI - Prime bidder shall be responsible for discharging the responsibilities as per contractual obligations. - Prime Bidder shall submit the bid which is complete in all aspects. - Payments will be released to Prime bidder only. - Foreign bidder are not permitted - The authorized representatives should submit the latest authorization from manufacturer's/ OEM / Product developer.
2.	Office in AP	The Prime bidder should have a office in AP or will establish within 30 days from the date of award of contract.
3.	Billing	The Prime bidder shall raise the bills from his office/ development center in AP only

Note:

- As per G.O MS No 12 , dated 08.06.2016 , AP Procurement Policy for e-Governance

- Bidders can submit their bids with self-declarations in respect of the pre-qualification criteria prescribed in the RFP
- The procuring agency shall evaluate the bids based on the self-declaration and select the successful bidder
- The successful bidder should submit the documents to prove their pre-qualification as specified in the RFP, within 5 working days from the date of declaration of successful bidder
- APTS will receive support documentations, verify the compliance with the requirements of the RFP and if they are in order, issue the award notification
- Failure to submit all support documents by the successful bidder within specified time or non-compliance with the self-declaration or non-fulfilment of the pre-qualification criteria specified in the RFP, upon their verification, shall entail forfeiting the EMD and Blacklisting of such bidder for a period of two years. In such cases, the procuring agency may proceed further with the next-ranked bid.
- However, Bidder should submit the following support documents mandatorily as part of the bid response
 - Power of Attorney (POA) or Board Resolution authorising the person signing the proposal to sign on behalf of the firm or Letter of Authorization issued by Competent Authority of the bidder.
 - Self-declaration confirming the truth of the data or information furnished by the bidder.
- In case if the Bidder is not having office in anyone of the 13 districts of Andhra Pradesh (AP), the Bidder should furnish an undertaking that the same would be established within thirty days of signing the contract.
- In case of prior projects referenced as part of the citations by the Bidder, executed and declared in foreign currency, the exchange rate as on the date of floating RFP would be considered for evaluation.

2.12.1 Conflict of Interest

As it require that the bidder must provide professional, objective, and impartial advice and at all times hold APTS interests paramount, strictly avoid conflicts with other assignments/jobs or their own corporate interests and act without any consideration for future work.

2.12.2 Right to Terminate the Bid Process

APTS may terminate the Bid process at any time without assigning any reason. APTS makes no commitments, express or implied, that this process will result in a business transaction with anyone.

This RFP does not constitute an offer by APTS. The bidder's participation in this process may result in APTS selecting the bidder for APTS to engage in further discussions toward execution of a contract. The commencement of such discussions does not, however, signify a commitment by APTS to execute a contract or to continue negotiations. APTS may terminate discussions at any time without assigning any reason.

2.12.3 Earnest Money Deposit

- i. Bidders shall submit, along with their bids, EMD of amount as specified in the RFP Datasheet in the form of Bank Guarantee (BG) drawn from any scheduled/nationalized bank in favor of **"The Managing Director, Andhra Pradesh Technology Service Limited"** payable at Vijayawada valid for 6 Months from the date of submission of the bid. EMD in any other form shall not be entertained.
- ii. The EMD shall be denominated in Indian Rupees only. No interest will be payable to the bidder on the amount of the EMD.
- iii. Unsuccessful bidder's EMD will be discharged/ returned as promptly as possible, but not later than 30 days after the award of the contract to the selected implementation agency.
- iv. Scanned copy of the receipt of bid purchased from APTS should be uploaded through e-Procurement process.
- v. The physical copies of EMD fee shall be submitted to the concerned as per the details mentioned in the data sheet. Bids submitted without adequate EMD will be liable for rejection.
- vi. The EMD may be forfeited:
 - a. If a bidder withdraws his bid or increases his quoted prices during the period of bid validity or its extended period, if any; or
 - b. In the case of a successful bidder if the bidder fails to sign the contract for any reason not attributable to the APTS or to furnish Performance Bank Guarantee (PBG) within specified time in accordance with the format given in the RFP.

- c. Bids Submitted with EMD not valid in the specified period will also be rejected
- d. During the bid process, if any information is found wrong / manipulated / hidden in the bid. The decision of APTS regarding forfeiture of the EMD and rejection of bid shall be final & shall not be called upon question under any circumstances.

3 Bidding Process

3.1 Pre-Bid Meeting and Clarifications

After release of the RFP, APTS will accept Request for Clarification from the interested parties. All clarifications should be sent in writing as per the format provided in the table below. The request for clarifications should be provided separately for respective volumes of the RFP.

S. No.	Bidding Document Reference(s) (section number/ page)	Content of RFP requiring clarification	Points of clarification required

All clarifications should be sent from email ID of Prime contact person of the bidder on or before the deadline mentioned in the RFP. Telephone calls will not be accepted for clarifying the queries.

All enquiries / clarifications from the prospective bidders for this RFP must be directed to the contact person notified by APTS as given in the data sheet. In no event will APTS be responsible for ensuring that Bidders' inquiries have been received by APTS. APTS may at its option share the replies to the queries by publishing it in the website www.pts.gov.in. However, APTS makes no representation or warranty as to the completeness of any response, nor does APTS undertake to answer all the queries that have been posed by the Bidder. The bidders or their designated representatives may attend the Pre-Bid Meeting at their own cost, at the venue on date specified in the RFP Datasheet. It is not mandatory for all the prospective bidders to attend the pre bid meeting to participate in the pre bid discussions & to receive the clarifications issued during the pre-bid.

The purpose of the meetings will be to clarify issues and to answer questions on any matter relating to the RFP that may be raised at that stage. Participants to the Pre-Bid meeting should carry-

- 1. Proof of purchase of the bid document**

- 2. An Authorization Letter issued from their company.**
- 3. An identity proof issued by their company**
- 4. Not more than 4 representatives for the Bidder**

It may be noted that participants not carrying the above documents will not be allowed to attend the Pre-Bid meeting. The participants are advised to be present 30 minutes in advance to the scheduled time of the Pre-Bid Meeting.

- Please note that not attending the Pre–Bid Meeting will not be a cause for disqualification of a bidder.
- No queries will be answered in regard to the tender document before the Pre-Bid meeting.
- After issue of pre bid clarifications, no further clarifications shall be entertained.

3.2 Supplementary Information/ Corrigendum / Amendment to the RFP

- i. If APTS deems it appropriate to revise any part of this RFP or to issue additional data to clarify an interpretation of the provisions of this RFP, it may issue supplements/corrigendum to this RFP. Such supplemental information will be communicated to all the bidders who participated in the pre-bid meeting by e-mail and will also be made available on www.aps.gov.in. Any such supplement shall be deemed to be incorporated by this reference into this RFP.
- ii. At any time prior to the deadline (or as extended by APTS) for submission of bids, APTS, for any reason, whether at its own initiative or in response to clarifications requested by prospective bidder, APTS may modify the RFP document by issuing amendment(s). All bidders who have attended the pre-bid meeting will be notified of such amendment(s) and will also be made available on www.aps.gov.in, and these will be binding on all the bidders.
- iii. In order to allow bidders a reasonable time to take the amendment(s) into account in preparing their bids, APTS, at its discretion, may extend the deadline for the submission of bids.

3.3 Cost of Bid Preparation

The bidder shall bear all costs associated with the preparation and submission of its bid and APTS shall in no event or circumstance be held responsible or liable for these costs, regardless of the conduct or outcome of the bidding process. All costs incurred in connection with participation in the bidding process, including, but not limited to, costs

incurred in participation in meetings/ discussions/ presentations, preparation of proposal, in providing any additional information required by APTS to facilitate the evaluation process and in negotiating a definitive contract or all such activities related to the bid process will be borne by the bidder. This RFP does not commit APTS to award a contract. Further, no reimbursable cost may be incurred in anticipation of award. Bidders shall furnish the required information on their technical and commercial proposals in the enclosed formats only. Any deviations in format will make the tender liable for rejection.

3.4 Bid Submission

3.4.1 Late Bids

Bids received after the due date and the specified time (including the extended period if any) for any reason whatsoever, shall not be entertained. The bidders have to adhere to the timings mentioned in the RFP datasheet for submitting the bid through e-Procurement portal.

3.4.2 Availability of Tender Documents

For the detailed tender notice, please visit our website <https://tender.apecurement.gov.in> and www.pts.gov.in. For participation in e-tender please visit e-tender website <http://www.apecurement.gov.in>. The bidders are expected to purchase the tender documents as per the details mentioned in section 3.8 of this Volume II of RFP and examine all instructions, forms, terms, project requirements and other information in the RFP documents. Failure to furnish all information required as mentioned in the RFP documents or submission of a proposal not substantially responsive to the RFP documents in every respect will be at the bidder's risk and may result in rejection of the proposal and forfeiture of the bid Security.

3.4.3 Registration of vendors

For registration and online bid submission bidders may contact help desk, www.apecurement.gov.in or <https://tender.apecurement.gov.in>

3.4.4 Digital Certificate authentication

The bidder shall authenticate the bid with his Digital Certificate for submitting the bid electronically on e-Procurement platform and the bids not authenticated by digital certificate of the bidder will not be accepted on the e-Procurement platform. For

obtaining Digital Signature Certificate, in case the bidder does not have, they may contact the persons named in the RFP datasheet

Contact Registration Authorities of any Certifying Authorities in India. The list of CAs is available by clicking the link: <https://tender.apecurement.gov.in/DigitalCertificate/signature.html>

3.4.5 Payment of Transaction fee

All the participating bidders shall pay transaction fee @ 0.03% of quoted value in the commercial bid with a cap of Rs.10,000/- (Rupees Ten Thousand Only) quoted value in the commercial bid up to Rs.50 Crores and Rs,25,000/- (Rupees Twenty Five Thousand Only) for quoted value in the commercial bid above Rs.50 Crores at the time of bid submission, electronically, For tenders wherever ECV is not available (i.e.) for goods and services, the transaction free shall be calculated on quoted values.

3.4.6 Corpus fund

In addition to the above, the successful bidder shall pay corpus fund to APTS at 0.04% of the contract value with a cap of Rs.10,000/- (Rupees Ten Thousand Only) for contract value up to Rs.50 Crores and Rs.25,000/- (Rupees Twenty Five Thousand Only) for the contract value above Rs.50 Crores to sustain 'e' procurement initiatives, Research and Development of software application for automation for processes is user departments.

3.4.7 Mode of Submission

Bids have to be submitted through e-Tendering process (Online – www.apecurement.gov.in) which shall be digitally signed. However, the EMD shall be submitted to the concerned person as per the details mentioned in the data sheet. Bids submitted without EMD will be liable for rejection. Bidders are requested to submit the bids after issue of minutes of the pre bid meeting duly considering the changes made if any, during the pre-bid meeting. Bidders are totally responsible for incorporating/ complying the changes/ amendments issued if any during pre-bid meeting in their bid. However, one (1) hard copies of Pre-Qualification bid& Technical Qualification bids separately and one (1) softcopy preferably in a Pen Drive with password protection consisting of Pre-Qualification bid & Technical Qualification separately to be submitted to APTS in separate sealed covers with appropriate titles as per timelines given in the bid data sheet.

3.4.8 Bid Submission Acknowledgement

The bidder shall complete all the processes and steps required for Bid submission. The system will generate an acknowledgement with a unique bid submission number after completing all the prescribed steps and processes by the bidder. Bidders may also note that the bids for which an acknowledgement is not generated by the e-Procurement system are treated as invalid or not saved in the system. Such invalid bids are not made available to the Tender Inviting Authority for processing the bids. The GoAP and APTS are not responsible for incomplete bid submission by bidders.

3.4.9 Deactivation of Bidders

As per the GO. Ms. No. 174 - I&CAD dated: 1-9-2008, if the bidder fails to submit the original hard copies of uploaded certificates/documents, DD/BG towards EMD within stipulated time or if any variation is noticed between the uploaded documents and the hardcopies submitted by the bidder, as the successful bidder will be suspended from participating in the tenders on e-Procurement platform for a period of 3 years. The e-Procurement system would deactivate the user ID of such defaulting bidder based on the trigger/recommendation by the Tender Inviting Authority in the system. Besides this, the department shall invoke all processes of law including criminal prosecution of such defaulting bidder as an act of extreme deterrence to avoid delays in the tender process for execution of the development schemes taken up by the government. Other conditions as per tender document are applicable.

3.4.10 Submission of original EMD, Tender document fee and Proposal Documents

After uploading the documents, the copies of the uploaded statements, certificates, proposal documents (except for the Commercial Proposal) are to be submitted by the bidder to the O/o The Managing Director, Andhra Pradesh Technology Services R&B Bldg, 3rd Floor, Labbipet, Vijayawada - 520010, India as per the timelines given in the RFP data sheet.

- a. Submission of original DD/ BG which were scanned and uploaded towards EMD and tender document fee by participating bidders should be submitted to the tender inviting authority on or before date and time as per the details mentioned in the data sheet.
- b. All the bidders shall invariably upload the scanned copies of BG in e-Procurement system and this will be the prime requirement to consider the bid responsive.
- c. The APTS shall carry out the technical evaluation solely based on the uploaded certificates/documents, BG towards EMD and DD towards tender document fee

- in the e-Procurement system and open the pre-qualification bid of the responsive bidders.
- d. Failure to furnish any of the uploaded documents, certificates, will be entitled in rejection of the bid. The APTS shall not hold any risk on account of postal delay. Similarly, if any of the certificates, documents, etc., furnished by the Bidder are found to be false/ fabricated/ bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the Bid Security will be forfeited.
 - e. APTS will not hold any risk and responsibility regulating non-visibility of the scanned and uploaded documents.
 - f. The Documents that are uploaded online on e-procurement platform will only be considered for Bid Evaluation.
 - g. Important Notice to Contractors, Suppliers and Department users
 - (i) In the endeavor to bring total automation of processes in e-Procurement, the Govt. has issued orders vide G.O.Ms.No. 13 dated. 5.7.2006 permitting integration of electronic Payment Gateway of ICICI/ HDFC/ Axis Banks with e-Procurement platform, which provides a facility to participating suppliers/ contractors to electronically pay the transaction fee online using their credit cards.

3.5 Proposal Format

The bidder is expected to examine all the instructions, guidelines, terms and conditions and formats in the RFP. Failure to furnish all the necessary information as required by the RFP on submission of a proposal not substantially responsive to all the aspects of the RFP shall be at bidders own risk and may be liable for rejection. The proposal as mentioned shall be submitted in three parts. Information to be included, formats required in each part are given below:

3.5.1 Pre-qualification Proposal

This part shall contain the following documents

- a. Pre-Qualification Compliance requirements as per format given in section 7.1 of this document
- b. Application form as prescribed in RFP **Form P1 (Section 6.1.1)**
- c. Details of the Bidder /OEM/Consortium Members in **Form P2 (Section 6.1.2)**
- d. Pending Litigations for Bidder /OEM/Consortium Members as per **Form P3(a) (Section 6.1.13)**
- e. Declaration regarding clean track record for Bidder/OEM/Consortium Members as per **Form P3 (b) (Section 6.1.4)**

- f. Self-declaration on blacklisting form for Bidder/OEM/Consortium Members as prescribed in **Form P4 (Section 6.1.5)**
- g. Financial strength for Bidder/OEM/Consortium Members details as prescribed in **Form P5 (Section 6.1.6)**
- h. Details of local presence for Bidder/OEM/Consortium Members in **Form P6 (Section 6.1.7)**
- i. Relevant general Project experience for Bidder/OEM/Consortium Members as prescribed in **Form P7 (Section 6.1.7)**
- j. Manufacturers Authorization Form as prescribed in **Form P8 (Section 6.1.9)**
- k. Other documents as may be deemed fit by the bidder for proving their eligibility

3.5.2 Technical Bid

- i. The Technical Bid will comprise of a cover letter, documents/annexure as proof against technical evaluation criteria, details of COTS Product & maintenance facilities, project staffing plan, undertaking (as given in RFP). Please note that no price information should be indicated in the Technical Bid and shall only be quoted in the Commercial Bid. Failure to comply with the same may result in the rejection of the Bid. In submitting additional information, please mark it as '**Supplemental**' to the required response. If the bidder wishes to propose additional services (or enhanced levels of services) beyond the scope of this RFP, the proposal must include a description of such services as a separate attachment to the proposal.
- ii. APTS may seek clarifications from the Bidder on the technical proposal. Any clarifications by the Bidder on the technical proposal should not have any commercial implications.
- iii. Technical approach, methodology and work plan are key components of the technical proposal. Bidders shall present their technical proposal containing:
 - A. **Compliance requirements:** Technical Compliance requirements as per section 7.2
 - B. **Understanding of Project:** This section shall contain a clear and concise understanding of project requirements along with activities to be performed and deliverables to be provided based on the scope of work.
 - C. **Technical Approach and Methodology:** In this part, bidders should explain their understanding of the objectives of the assignment, approach to the assignment, proposed solution, proposes technology methodologies for carrying out activities and obtaining the expected outputs, and the degree of detail of such output. Bidders should also explain the proposed

methodologies and highlight the compatibility of those methodologies to the proposed approach and the needs of the project. Applicant shall also include the risk management plan, security, business continuity plan, disaster recovery plan and quality assurance plans as a part of approach and methodology, Work methodology & Work Plan: In this part the applicant should propose the main activities of the assignment, their content and duration, phasing and interrelations, meetings, milestones (including interim approvals by the client), and delivery dates of the reports/ documents. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the scope of work and ability to translate them into a feasible working plan. A list of the final documents, including reports to be delivered as final output, should be included here. The work plan should be consistent with the work schedule, milestones, deliverables, meetings and presentations shall be clearly mentioned

- D. **Organization and staffing:** In this part the applicant should propose the structure and composition of team for the main disciplines of the assignment, the key expert/ firm responsible, and proposed technical and support staff may be provided. Capacity building: Bidder should submit a brief approach note on training of APTS/SSLR Department staff during implementation and post-implementation. Bidder should provide hands on training before requesting for acceptance and completion of implementation. Training and manual details should be provided to all the users.
- E. **Approach for Project implementation:** Detailed approach for carrying out the project implementation along with the support and maintenance during the contract. Bidders should submit a detailed approach for both first and second phase implementation. Bidders need to give detailed approach how they would implement complete project with integration plan.
- F. **Company profile:** Details of the point of contact along with brief work profile of the Bidder as well as other partner firms including relevant experiences of executing similar projects. Bidder may include relevant case studies and attested copies of completion certificates from clients in support of the case studies.
- G. **Innovation:** If any, on the RFP to improve performance in carrying out the project. Innovativeness in terms of proposing the functional services that can be taken up by the APTS/SSLR Department beyond what is already provided in the RFP shall be appreciated.

- H. **Other Information:** Any other information relevant to the solution as preferred by the bidder can also be placed in the document.
- I. **Technical Forms:** The Bidder shall submit the technical Forms as per the list given below
- i. Form T1: Relevant Project Experience in GNSS/DGPS/ Installation of the equipment as quoted in the bid **(Section 6.2.1)**
 - ii. Form T2: Relevant Project Experience in Cadastral Surveys using DGPS/CORS **(Section 6.2.2)**
 - iii. Form T3: Relevant Project Experience in GIS **(Section 6.2.3)**
 - iv. Form T4: Proposed Solution **(Section 6.2.4)**
 - v. Form T5: Declaration for Bill of Material – Infrastructure **(Section 6.2.5)**
 - vi. Form T6: Proposed Approach and methodology for the solution proposed **(Section 6.2.6)**
 - vii. Form T7 : Proposed Formation/Location of Helpdesk & other manpower support **(Section 6.2.7)**
 - viii. Form T8: Project Management **(Section 6.2.10)**
 - ix. Form T9: Work Plan and Resource allocation **(Section 6.2.12)**
 - x. Form T10::Key resources proposed **(Section 6.2.13)**
 - xi. Form T11: Team Composition **(Section 6.2.14)**
 - xii. Form T12 Team Deployment Structure **(Section 6.2.15)**
 - xiii. Form T13: Team Profiles (CV Format) **(Section 6.2.16)**

3.5.3 Commercial Proposal

Bidder must submit through e-procurement mode only, in absence of which the proposals will be rejected.

- A. The commercial bid form as prescribed in the e-Tendering website and in section 6.3 of Volume 2 of the RFP as per the Financial Proposal submission form as prescribed:
- i. Establishing CORS Network System **(Form C2)**
 - ii. Infrastructure Cost for Supply, Installation of Infrastructure **(Form C2 (a))**
 - iii. Need Based Survey Cost **(Form C4)**

- B. Bidder shall clearly mention unit rates and total amount for each component. Any discrepancy between words and figures noted against each item of the RFP and between unit rates and total amount, the decision of APTS will be final and binding on the proposals (in case of discrepancy, the amount in words will be considered as final).
- C. No variation in prices will be allowed under any circumstances during the entire period of project. **No Conditional and open ended bid shall be evaluated and the same is liable for rejection.**
- D. The commercial proposal submitted by the bidder should be inclusive of all the items in the technical proposal and should incorporate all the clarifications provided by the bidder on the technical proposal during the evaluation of the technical proposal.
- E. Prices shall be quoted in Indian Rupees (INR) only.
- F. The bidder shall quote the price for all the components, the services to meet the requirements as listed in this RFP.
- G. Bids with price adjustment shall be rejected.
- H. The price quoted in the commercial proposal shall be the only payment, payable by APTS to the successful bidder for completion of the contractual obligations by the successful Bidder under the Contract, subject to the terms of payment specified as in the proposed commercial bid or the one agreed between APTS and the Bidder. The price would be inclusive of all taxes, duties, charges and levies as applicable.
- I. The prices, once offered, must remain fixed and must not be subject to escalation for any reason whatsoever within the period of the validity of the proposal and the contract (for successful bidder). A proposal submitted with an adjustable price quotation or conditional proposal may be rejected as nonresponsive.
- J. Bidder should provide all prices, quantities as per the prescribed format given in volume II of this RFP. Bidder should not leave any field blank. In case the field is not applicable, Bidder must indicate "0" (zero) in all such fields.
- K. It is mandatory to provide breakup of all taxes, duties and levies wherever applicable and/or payable. All the taxes of any nature whatsoever shall be borne by the Bidder.
- L. The bid amount shall be inclusive of packing, forwarding, transportation, insurance, delivery charges and any other charges as applicable till the end of the contract period.

- M. APTS / ITE & C Department reserves the right to ask the Bidder to submit proof of payment against any of the taxes, duties, levies indicated within specified time frames.
- N. Price Commitment and Validity: As part of the technical proposal, the Bidder will be asked to provide a complete Bill of Materials (along with the complete technical specifications for each of the individual items) for the procurement of the components required for APTS/SSLR Department and for their maintenance as specified in this RFP. In the Commercial bid, the Bidder will be asked to provide pricing for the same.

3.6 Modification and Withdrawal of Bids

- a. No bid may be withdrawn, substituted, or modified in the interval between the bid submission deadline and the expiration of the bid validity period specified by the Bidder in the Bid Submission Form, or any extension thereof agreed to by the Bidder. Modification/Withdrawal of the Bid sent through any other means shall not be considered by the Purchaser
- b. The Bidder may withdraw, substitute, or modify its bid on the e-procurement portal, in accordance with the process specified below, no later than the date and time specified in the BDS
- c. The process of modification & withdrawal of bid:
 - i. The bidder can withdraw/modify the bid submitted by him previously. However, if a bid is withdrawn, the bidder can't participate in the bid again.
 - ii. After entering with the Login ID and Password, the bidder can modify or resubmit the bid for any number of times till the last date of submission by clicking on the option "My bid". The lists of tenders which the bidder participated previously are displayed here with the bid ID.
 - iii. Each Bid ID has a corresponding "Action" column containing the list of icons for 'Rebid Submission, EMD Resubmission, Tender Fee Resubmission, Financial Bid Resubmission, Bid Withdrawal' are displayed.
 - iv. After resubmission, the bidder will get an acknowledgment with Re-Bid Attempts Counter Number for that particular bid. As the bidder attempts further rebid submissions, the Re-Bid Attempts Counter number goes on increasing.

- v. In Case of withdrawal of bid, the bidder need to click the “Withdraw Bid” Icon under “Action” column of respective bid ID in ‘My Bid’ Section. Once the bidder with draws the bid, he/she cannot participate in the bid again. For further details please refer ‘Bidders Manual KIT’ by logging into <https://eprocure.gov.in/eprocure/app>
- d. No bid may be modified subsequent to the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of period of bid validity specified by the Bidder on the bid form. Withdrawal of a bid during this interval may result in the forfeiture of EMD of the bidder.

3.7 Conditions under which this RFP is issued

- a. This RFP is not an offer and is issued with no commitment. APTS reserves the right to withdraw the RFP and change or vary any part thereof at any stage. APTS also reserves the right to disqualify any bidder should it be so necessary at any stage.
- b. Timing and sequence of events resulting from this RFP shall ultimately be determined by APTS
- c. No oral conversations or agreements with any official, agent, or employee of APTS/ ITE & C Department shall affect or modify any terms of this RFP and any alleged oral agreement or arrangement made by a bidder with any department, agency, official or employee of Andhra Pradesh shall be superseded by the definitive agreement that results from this RFP process. Oral communications by Past bidders shall not be considered binding on APTS, nor shall any written materials provided by any person other than MD, APTS
- d. Neither the bidder nor any of the bidder’s representatives shall have any claims whatsoever against APTS or any of their respective officials, agents, or employees arising out of or relating to this RFP or these procedures (other than those arising under a definitive service agreement with the bidder in accordance with the terms thereof).
- e. Until the contract is awarded and during the currency of the contract, bidders shall not, directly or indirectly, solicit any employee of APTS or any other officials involved in this RFP process to leave APTS in order to accept employment with the bidder, or any person acting in concert with the bidder, without prior written approval of APTS.

3.8 Rights to the Content of Proposal

All proposals and accompanying documentation of the Technical proposal will become the property of APTS and will not be returned after opening of the technical proposals. APTS shall not be bound by any language in the proposal indicating the confidentiality of the proposal or any other restriction on its use or disclosure.

3.9 Non-Conforming Proposals

A proposal may be construed as a non-conforming proposal and ineligible for consideration:-

- a. If it does not comply with the requirements of this RFP. Failure to comply with the technical requirements, and acknowledgment of receipt of amendments, are common causes for holding proposals non-conforming
- b. If a proposal appears to be “canned” presentations of promotional materials that do not follow the format requested in this RFP or do not appear to address the particular requirements of the proposed solution, and any such bidders may also be disqualified

4 Bid Opening and Bid Evaluation Process

4.1 Bid Opening

APTS will open all the bids submitted online, in the presence of bidders' representatives who choose to attend the Bid opening as per the RFP Datasheet. Bid opening will be performed at three stages as per the dates specified in RFP data sheet

- i. Pre-Qualification Bid
- ii. Technical Bid
- iii. Commercial Bid

4.2 Bid Evaluation Process

4.2.1 Preliminary Scrutiny

The APTS will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

The tenders that do not conform to the tender conditions and tenders from firms without EMD, Bid document fee shall be straight away rejected.

Subsequent to the preliminary scrutiny and identification of qualified bidders, further evaluation of the bids will be done in three stages and at the end of every stage short listed bidders will be informed of the result to have a fair and transparent competition.

4.2.2 Evaluation of Pre-Qualification Criteria

The evaluation committee as per the GO Ms.12, dated 08-06-2015, ITE&C Department, issued by Government of Andhra Pradesh, will evaluate all pre-qualification bids to determine if they are responsive and meeting all the pre-qualification requirements of the RFP. APTS will prepare a list of firms based on the compliance to the pre-qualification criteria. The tenders that do not conform to the tender conditions and tenders from firms without adequate capabilities as per pre-qualification criteria in Volume II of this RFP shall be straight away rejected. All eligible tenders will be considered for further evaluation. The decision of APTS will be final in this regard.

4.2.3 Evaluation of Technical Bids

The evaluation of the Technical bids will be carried out in the following manner for both

- a. The technical bid will be examined by an evaluation committee as per the GO Ms. 12, dated 08-06-2015, ITE &C Department, Government of Andhra Pradesh, based on the evaluation criteria and the points system specified in section 4.2.4 of volume II of the RFP.
- b. Non Compliance of any technical specification in the hardware proposed from the RFP requirements, the proposal shall be summarily rejected.

4.2.4 Criteria for Technical Evaluation

The Evaluation Committee feels that the following parameters are critical for the success of an e-governance project and expects the bidders to provide accurate and precise information in their responses.

Technical proposal of the bidders will be opened and evaluated who meets all the prequalification criteria. The evaluation committee will evaluate the Technical Proposals on the basis of the technical evaluation criterion as provided below. The bidder has to follow the structure while drafting the RFP as per the Forms provided against each criterion. The bidders, who score an aggregate technical score of **70**, will qualify for the evaluation of the commercial bid

S. No.	Evaluation Criteria	Max Score	Form No
I	Past Experiences and Technical Expertise	80	
A	Previous Similar Project Experience suppling, installation and commissioning of CORS Network (RTK) system including Software, hardware with all accessories	30	T1
B	Previous Similar Project Experience in executing at least 3 Project in Cadastral Surveys using DGPS/CORS	30	T2
C	Previous Similar Project Experience in Geo-referencing of land parcels for Cadastral purposes	20	T3
II	Project Management and Implementation Methodology	20	
A	Proposed Approach and Implementation methodology for the solution proposed	10	T4,T5 and T6
C	Project Management	10	T8
	Total (I+II)	100	

4.2.5 Detailed Evaluation Criteria

S. No.	Evaluation Criteria	Point System	Max Score
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S. No.	Evaluation Criteria	Point System	Max Score
1	Past Experiences and Technical Expertise– 60 Marks		
A	Previous Similar Project Experience in supplying, installation and commissioning of CORS Network(RTK) system including Software, hardware with all accessories	The Prime Bidder/ OEM/ OEM authorized distributor should have prior experience in supplying, installation and commissioning of CORS Network(RTK) system including Software, hardware with all accessories a) 3CORS projects with each containing at least 20 reference stations; - 20 Marks b) 4CORS projects with each containing at least 20 reference stations; - 25Marks c) More than 4CORS projects with each containing at least 20 reference stations; - 30 Marks d) (Or) else 0	30
B	Previous Similar Project Experience in executing at least 3 Project in Cadastral Surveys using DGPS/CORS	The Prime Bidder/ OEM/ OEM authorized distributor should have Similar Project Experience in executing Projects in Cadastral Surveys using DGPS/CORS a) 1 Projects (20 Marks) b) 2 Projects (25 Marks); c) 3 Projects (30 Marks); (Or) else 0.	30
C	Previous Similar Project Experience in Geo-referencing of land parcels for Cadastral purposes	The Bidder should have prior experience in Geo-referencing of land parcels for Cadastral purposes a) 1 Project (10 Marks) b) 2 Projects (15 Marks); c) More than 2 Projects (20 Marks); (Or) else 0.	20
2	Technically Solution Proposed – 20 Marks		
A	Proposed Approach and Implementation methodology for the solution proposed	a. Project requirement assessment, Equipment Deployment, Warranty and Maintenance, Facilities Management – 4 Marks b. SLA management methodology, SLA monitoring console for PMU –2 Marks c. Highlight the associated risks/ problems and plans for mitigation and explain the technical approach it would adopt to address them – 2 Marks d. Methodology for Implementation across	10

S. No.	Evaluation Criteria	Point System	Max Score
		district – 2 Marks	
B	Project Management	<p>The proposal shall clearly and concisely define the project management framework that shall be followed by the bidder. The framework should contain at least but not limited to the following:</p> <ul style="list-style-type: none"> a. The Project Organization & Quality Management Strategy – 2 Mark b. Communication Management Strategy – 2 Mark c. Configuration Management Strategy – 2 Mark d. Proposed timelines Activities, Sequencing and dependencies among activities – 2 Mark 	10
	Total		100

Note:

1. Please provide work order / testimonial / project completion certificate from the client for all the stated project experience
2. The value of the projects considered in the above criterion would be based on the Purchase Order or the LOI issued to the responding firm. In absence of the supporting documents, the projects would not be considered for evaluation

4.2.6 Technical Presentations

Bidder has to make presentations at APTS premises or at a place decided by APTS to facilitate the procurement committee in understanding the bidder's capabilities to execute the project. The date for presentation will be communicated in advance. Bidder are expected to communicate the requirements for conducting this exercise 2 days in advance to APTS. **Bidder shall ensure that the representative carries a valid photo ID and authorization letter from the bidder.**

The presentations should cover cases of installations of the software in an environment similar to APTS/SSLR requirements. The objective of the presentation to the committee is to assess the bid through the presentation to award the scores:

- Understanding of the RFP in greater detail

- Approach and Methodology
- Project plan
- Solution proposed in the technical bid
- Equipment deployment and maintenance
- Other important components of the proposal

4.3 Commercial Bid Opening and Evaluation Process

4.3.1 Bid Opening

Commercial Bids will be opened and compared after the technical evaluation has been completed for those bidders who are technically qualified as per section 4.2.4.

4.3.2 Announcement of Bids

The commercial bids will be opened, in the online presence of bidders or their representatives who choose to attend the commercial bid opening on date and time to be communicated to all the technically qualified bidders. In the event of the specified date of bid opening being declared a holiday for APTS, the bids shall be opened at the appointed time and location on the next working day.

The Bidders/Bidder's representatives present at the commercial bid opening shall sign a register evidencing their attendance.

4.3.3 Clarification on Commercial Bids

To assist in the evaluation, comparison and an examination of bids, APTS may, at its sole discretion, ask the bidder for a clarification of its bid including breakdown of unit rates. The request for clarification and the response shall be in writing. If the response to the clarification is not received before the expiration of deadline prescribed in the request, APTS reserves the right to make its own reasonable assumptions at the total risk and cost of the bidder

4.3.4 Evaluation of Commercial Bids

4.3.4.1 Change in the Quantities

The Contracting authority reserves it right to alter the scope (increase quantity / remove certain items) up to approximate ($\pm 10\%$) units

4.3.4.2 Commercial Evaluation Process

The Commercial Bids of the Bidders who qualify in the First Stage will be evaluated as per the Evaluation Criteria mentioned below:

- a. The prices should be all inclusive of taxes and Out of Pocket Expenses (OPEs.)
- b. All expenses related to travel, boarding, lodging etc. would be inclusive and no separate claims on any account would be entertained.
- c. All the taxes and other levies indicated in the price bid will be taken for the price bid evaluation.
- d. The total value of the price bid shall be arrived based on the total value quoted by the bidder for Capital expenditure and Operational expenditure
- e. The Operational expenditure shall be calculated on the Operations and Management cost proposed.
- f. The commercial evaluation would be based on the total value quoted by the bidder for Capex and Opex in the commercial bid. The evaluation will be done taking all the cost components into consideration

Note: Arithmetical Errors in Commercial Proposals - 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 there is a discrepancy between the rates in words and figures, the rate in words will govern. If the bidder does not accept the correction of errors, the bid will be rejected and EMD may be forfeited. Bidder is advised to exercise adequate care in quoting the prices. No excuse for corrections in the quoted figures will be entertained after the commercial proposals are received by APTS.

4.4 Total Bid Evaluation

- a) The evaluation will be 3 stages i.e., PQ, TQ & Commercial of the proposal submitted by the bidders.
- b) The bidders have to score a minimum/qualifying score in Technical evaluation to be considered for Financial Evaluation as per the criteria.
- c) The final bid evaluation is based on Cost as quoted by the bidder and the least cost bidder will be termed as L1 for both Forms C2 and C3 respectively as per RFP.
- d) The bidder who has quoted lowest rate for Form C2 (Primary Component of RFP) will be adjudged as **L1 for Form C2**

- e) The bidder who gets highest score as per the Weighted average mentioned in Form C3 will be adjudged as **L1 for Form C3**. The Weighted Score will be computed as follows:

$$\text{Total score of C3 (C3n)} = 25*(1aL/1a) + 20*(1bL/1b) + 25*(1cL/a3) + 3*(2aL/2a) + 5*(2bL/2b) + 5*(2cL/2c) + 5*(2dL/2d) + 7*(2eL/2e) + 2*(3L/3) + 3*(4L/4)$$

Where 1aL, 1bL, 1cL, 2aL, 2bL, 2cL, 2dL, 2eL, 3L, 4L represents the lowest bidder for respective cost element from the respective form C3

Where 1a, 1b, 1c, 2a, 2b, 2c, 2d, 2e, 3, 4 represents quotations of the bidder in consideration for respective cost element from the respective form C3

- f) In case, if the Bidder quoted L1 price for Form C2 is differed from L1 price for Form C3
- a. The L1 Bidder of Form C2 shall
 - i. Match the L1 unit rates of respective line items of Form C3, where applicable by comparing both the bidders rates.
 - ii. If the L1 Bidder of primary component (Form C2) does not match the L1 unit rates of respective line items of Form C3, then the L2 Bidder of primary Component (Form C2) will be given a chance to match the L1 Price of Form C1 and if matches follow the same process as point i for Form C2.
- g) The bidder who meets both the criteria above will be the successful bidder

4.5 Award of Contract

4.5.1 Notification of Award

Notification of Award shall be to the Best Value Bid. Prior to the expiration of the bid validity period, APTS will notify the successful bidder in writing or by fax or email, to be confirmed in writing by letter, that its proposal has been accepted. The notification of award will constitute the formation of the contract. Upon the successful bidder's furnishing of performance bank guarantee, APTS will promptly notify each unsuccessful bidder and return their bid security.

4.5.2 Performance Security

On receipt of notification of award from APTS, the successful bidder shall furnish the performance security in accordance with the conditions of contract, as mentioned in forms of volume II of the RFP.

- a. A PBG for an amount of 10% of Contract Value should be furnished by the bidder in the form of a Bank Guarantee as per the format provided in volume III of the RFP (Section 22) from Nationalized / scheduled banks in India
- b. The PBG should be furnished within the stipulated working days mentioned in the bid data sheet from the signing of the contract and should be valid for entire term of the contract.
- c. The Performance Bank Guarantee should be valid for the period specified in Bid Data Sheet
- d. The performance guarantee shall be returned to the Bidder within 30 days of the date of successful discharge of all contractual obligations at the end of the period of the agreement by the APTS
- e. In the event of any amendments to agreement, the bidder shall within 15 days of receipt of such amendment furnish the amendment to the performance guarantee as required.

Failure of the successful bidder to sign the contract in the specified period, proposed in this document and as may be modified, elaborated or amended through the award letter, shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event APTS may make the award to another bidder or call for new bids.

4.5.3 APTS's Right to accept / reject any proposal or all proposals

APTS 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 APTS action.

4.5.4 Signing of Contract

At the same time as APTS notifies the successful bidder that its proposal has been accepted, Managing Director, APTS shall enter into a contract, incorporating all agreements as indicated in this RFP and to be discussed and agreed upon separately, if necessary, between APTS and the successful bidder.

4.5.5 Failure to agree with the Terms & Conditions of the RFP

Failure of the successful bidder to agree with the Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of the award, in which event APTS may

award the contract to the next best value bidder as per this RFP or call for new proposals or invoke the EMD/PBG.

4.6 Disqualification

The proposal is liable to be disqualified under the following cases:

- a. Proposal not submitted in accordance with this document.
- b. Proposal is received in incomplete form.
- c. Proposal is received after due date and time.
- d. The bidder qualifies the proposal with his own conditions
- e. Proposal is not accompanied by all requisite documents/EMD/Tender cost.
- f. Information submitted is found to be misrepresented, 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.
- g. The price information, the pricing policy or pricing mechanisms or any document indicative of the commercial aspects of the proposal are either fully or partially enclosed or is part of the Pre-Qualification Bid/Technical Proposal Bid.
- h. Bidder fails to deposit the Performance Bank Guarantee (PBG) at the time of signing the contract.
- i. Bidder does not sign the contract within 15 days of the receiving the letter of acceptance from APTS.
- j. Bidder or any person acting on its behalf indulges in corrupt and fraudulent practices.
- k. If bidder provides quotation only for a part of the project
- l. In case any one bidder submits multiple proposals or if common interests are found in two or more bidders, the bidders are likely to be disqualified, unless additional proposals/bidders are withdrawn upon notice immediately
- m. Bidders may specifically note that while evaluating the proposals, if it comes to APTS'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 for a further period of three years from participation in any of the tenders floated by APTS
- n. The response to the pre-qualification criteria, technical proposal and the entire documentation submitted should not contain any information on

price, pricing policy, pricing mechanism or any information indicative of the commercial aspects of the bid.

- o. During validity of the proposal, or its extended period, if any, the Bidder increases prices quoted in the commercial proposal.

5 Delivery Schedule

SNo	Milestone	Timeline
I	PBG for the contract Value	
A	Issue of LOI	T ₀
B	Signing of the contract & Inception report	T ₀ + 7 Days
C	Kick off Meeting with all stakeholders	T ₀ + 10 Days
II	Supply, Installation, Commissioning of CORS Network Design, Approval and Selection of Locations of GNSS Receivers	
A	Phase –I 4 Nos	T ₀ + 15 Days
III	Installation of Servers and Development of Central Software	
A	Delivery of required Infrastructure at SDC for Control Center	T ₀ + 20 Days
B	Completion of development of Control Center Software	T ₀ + 45 Days
C	Training the specified number of Survey/Revenue Personal of GoAP	T ₀ + 60 Days
D	Third Party Audit of the Software	T ₀ + 55 Days
III	Survey for Sub Division Work	
A	Starting the Survey for Sub Division Work	T ₀ + 60 Days
B	Request for Survey for Sub Division Work	T ₁
C	Time to Complete the Survey for Sub Division Work	T ₁ + 30 Days
IV	Go-Live (Commissioning of entire Project)	
V	Operation and Maintenance (Project Management)	
A	Operation and Maintenance from the date of Go live of Phase I of Stage I	Starts from the Go-live (T ₀ + 2 Months) upto T ₀ + 26 Months
VI	Exit Management	
A	Exit Management, Knowledge Transfer and Acceptance by the department at INR 100	T ₀ + 26 Months

6 Bid Submission forms and Undertakings

6.1 Forms for Submission of Pre- Qualification

6.1.1 Form P1: Application Form

Date:

From	Managing Director, Andhra Pradesh Technology Services Andhra Pradesh Technology Services R&B Bldg, 3rd Floor, Labbipet, Vijayawada - 520010, India
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Ref: <Project Name>

Dear Sir,

We, the undersigned, apply to be pre-qualified for the above referred Project and declare the following:-

1. We have examined and have no reservations to the RFP Document.

Having examined the Bidding Documents, we, the undersigned, offer to provide the services specified as per section 6 of volume II of the RFP for the sum (here in after called total bid price) as quoted in commercial bid or such other sums as may be determined in accordance with the terms and conditions of the contract. We undertake, if our bid is accepted, to commence work as per the schedule and to achieve the effectiveness of the contract within the respective timelines stated in the Bidding Documents.

Construction of the Contract

- We have read the provisions of bid and confirm that these are acceptable to us.
- We further declare that bid is unconditional.
- We undertake, if our bid is accepted, to commence the work as per the schedule immediately upon your Notification of Award to us, and to achieve Completion within the time stated in the Bidding Documents.
- If our bid is accepted, we undertake to provide an Implementation cum Performance Security in the form and amounts, and within the timelines specified in the Bidding Documents.

- We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India.
 - We, hereby, declare that only the persons or firms interested in this proposal as principals are named here and that no other persons or firms other than those mentioned herein have any interest in this proposal or in the Contract to be entered into, that this proposal is made without any connection with any other person, firm or party likewise submitting a proposal, that this proposal is in all respects in good faith, without collusion or fraud
 - We agree to abide by this bid, which consists of this letter, EMD with technical bid, commercial bid, Pre bid meeting addendum if any and other attachments (specify the attachments) as per the bid document.
2. We, including suppliers for any part of the contract(s) resulting from this prequalification, do not have any conflict of interest in accordance with Data sheet
 3. We are entity (Public/Private/Government)

We understand that you may cancel the prequalification process at any time and that you are not bound either to accept any application that you may receive or to invite the pre-qualified bidders to bid for the contract(s) subject of this prequalification, without incurring any liability to the Bidders, in accordance with Data Sheet.

Name & Designation.....

Signature.....

Duly authorized to sign the Application for and on behalf of.....

Stamp / Seal.....

Attachments: As per the technical/commercial bid specifications

6.1.2 Form P2: Details of the Bidder/ OEM

Description	Details to be filled by Bidder
Name of the Organization	
Nature of the Organization Government / Public / Private / Partnership / Proprietorship	
Year of Establishment (Enclose any of the following for proof of establishment) <ul style="list-style-type: none"> • Certificate of Incorporation • Audited balance sheets • Registered Partnership deed if any 	
Regd. Office Postal Address with Phone & Fax Number	
Office Postal Address with Phone & Fax Number in Andhra Pradesh	
Contact person with Phone, Mobile Number & e-mail address	
TIN No /CST Regn No/ Service Tax Regn No.	
Append applicable credentials as per RFP	

Date:

Signature of the Bidder with seal

Place:

6.1.3 Form P3 (a): Pending Litigation

(EACH APPLICANT MUST FILL IN THIS)

Applicant Legal Name.....			
No pending litigation			
Pending litigation is indicated below			
Year	Matter in Dispute	Value of Pending Claim in INR Equivalent	Value of Pending Claim as a % of Net Worth

Date:

Name.....

In the capacity of.....

Signed.....

Duly authorized to sign the Application for and on behalf
of.....

Stamp / Seal.....

6.1.4 Form P3 (b): Declaration regarding Clean Track Record

Sir,

I have carefully gone through the Terms & Conditions contained in the RFP Document I hereby declare that my company/ has not been debarred/blacklisted during last five years as on Bid calling date by any Central or State Government/ Quasi Government Departments/ Banks (IBA) or Organisations in India for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices or not having any legal tangle with Govt. Organizations pending in any of the courts in India There are no cases between the bidder and quasi government or government organisations.

2. In the event of our organisation was debarred or black listed or got into legal tangle at any point of time, I am declaring and listing the same for your reference.

3. I further certify that I am authorised officer in my company to make this declaration.

Date:

Name.....

In the capacity of.....

Signed.....

Duly authorized to sign the Application for and on behalf of.....

Stamp /

Seal.....

6.1.5 Form P4: Format for Self-Declaration on Blacklisting

(Company Letterhead)

To,

[Date]

Managing Director,
Andhra Pradesh Technology Services
Andhra Pradesh Technology Services
R&B Bldg, 3rd Floor, Labbipet,
Vijayawada - 520010, India

Sir,

In response to the RFP No. _____
dated _____ for quoting against the RFP as an Director of M/s << Bidder>> , I /
We hereby declare that our Company / Firm _____ is having
unblemished past record and was not declared blacklisted or ineligible to participate for
bidding as on date of submission of the bid by **any State/Central Govt. or PSU** due to,
breach of general or specific instructions, corrupt /fraudulent , Non Performance or any
other unethical business practices.

Yours faithfully,

Authorized Signatory _____

Name _____

Designation _____

Company name _____

6.1.6 Form P5: Financial Strength Details

Financial Information			
Item/ Year	FY 2015-16	FY 2016-17	FY 2017-18
Revenue (in INR Crores)			
Profit Before Tax (in INR Crores)			
Profit after Tax (in INR Crores)			
Net worth			
Other Relevant Information			
Mandatory Supporting Documents: (a) Auditor Certified financial statements for the Last five financial years			

Note: Bidder must quote supporting document name, Section and page no. while referring all the financial details entered in Form P6. While entering net profit they must quote the Annual Report for the year (as supporting document name), Section and Page no. for quick reference during evaluation. Attested copies of Audited financial statements/ Certificate from Chartered Accountant for last 5 financial years in support of the above

Note: The primary bidder should provide details in the above table and supporting documents in separately

6.1.7 Form P6: Details of Local Presence

Date:

This is to certify that _____(company name) having its local office at (address)_____ has the following centre(s) in the State of Andhra Pradesh

Name and location of delivery centre	Contact person details	Number of projects handled	Skill sets	Indian Client List (Mention a few)

Name and location of the Organisation	Address	Number of employees

Signed: _____

Name: _____

Designation: _____

Stamp / Seal: _____

Note: In case, the bidder does not have local presence in AP at the time of bidding, a self-declaration has to be provided by the bidder that they will establish a project office in AP within 1 month from the issue of LOI if they are awarded the project.

6.1.8 Form P7: Relevant General Project Experience

Project/ Assignment Name:		Country:
Project Location within the Country:		Professional Staff provided by your Company:
Name of Funding Agency \ Client:		No. of Staff:
		No. of Person months:
Start Date:	Completion Date:	Approx. Value of Services:
Name of Associated Firms (s) if any:		No. of Months of Professional Staff provided by Associated Firms(s):
Name of Senior Staff involved and functions performed:		
Detailed Narrative Description of Project:		
Detailed Description of Actual Services Provided by your Company:		

Note: Work Order and Completion certificates shall be provided. Non-compliance to this shall lead to non-evaluation of the projects.

6.1.9 Form P9: Manufacturer Authorization Form

The authorization should be tender specific may be in the nature of a letter, memorandum or certificate regularly granted by the manufacturer to its channel partners, authorized solution providers, system integrators, distributors, or a specific letter issued for purposes of this bid. Such communication should include statements / undertakings from the said manufacturer to the following effect.

- i. Warranty coverage in respect of the goods and services manufactured by the said manufacturer shall be honored by that manufacturer, their channel partners, distributors, authorized service centers as the case may be.
- ii. The manufacturer updates the bidder and their technical personnel with relevant technical literature, training and skill transfer workshops etc., on a regular basis.
- iii. The manufacturer provide back to back technical support to the said bidder on a continuing basis.
- iv. The manufacturer should maintain necessary spares for a period of at least 5 years.
- v. The said bidder is authorized to provide service and solutions using hardware firmware and / or software as the case may be.

Note:

1. The letter of authority should be signed by a person competent and having the power of attorney to bind the manufacturer.
2. Ink signed copy of the MAF should be submitted in original along with the bid

6.2 Technical Forms Evaluation Format

6.2.1 Form T1: Relevant Project Experience in GNSS/DGPS/ Installation of the equipment as quoted in the bid

Project/ Assignment Name:		Country:
Project Location within the Country:		Professional Staff provided by your Company:
Name of Funding Agency \ Client:		No. of Staff:
		No. of Person months:
Start Date:	Completion Date:	Approx. Value of Services:
Name of Associated Firms (s) if any:		No. of Months of Professional Staff provided by Associated Firms(s):
Name of Senior Staff involved and functions performed:		
Detailed Narrative Description of Project:		
Detailed Description of Actual Services Provided by your Company:		

Note: Work Order and Completion certificates shall be provided. Non-compliance to this shall lead to non-evaluation of the projects.

6.2.2 Form T2: Relevant Proposed Experience in Cadastral Surveys using DGPS/CORS

Project/ Assignment Name:		Country:
Project Location within the Country:		Professional Staff provided by your Company:
Name of Funding Agency \ Client:		No. of Staff:
		No. of Person months:
Start Date:	Completion Date:	Approx. Value of Services:
Name of Associated Firms (s) if any:		No. of Months of Professional Staff provided by Associated Firms(s):
Name of Senior Staff involved and functions performed:		
Detailed Narrative Description of Project:		
Detailed Description of Actual Services Provided by your Company:		

Note: Work Order and Completion certificates shall be provided. Non-compliance to this shall lead to non-evaluation of the projects.

6.2.3 Form T3: Relevant Project Experience in GIS

Project/ Assignment Name:		Country:
Project Location within the Country:		Professional Staff provided by your Company:
Name of Funding Agency \ Client:		No. of Staff:
		No. of Person months:
Start Date:	Completion Date:	Approx. Value of Services:
Name of Associated Firms (s) if any:		No. of Months of Professional Staff provided by Associated Firms(s):
Name of Senior Staff involved and functions performed:		
Detailed Narrative Description of Project:		
Detailed Description of Actual Services Provided by your Company:		

Note: Work Order and Completion certificates shall be provided. Non-compliance to this shall lead to non-evaluation of the projects.

6.2.4 Form T4: Proposed Solution

The bidder should provide detailed description for all the parameters mentioned below

1. Understanding of the project (how the solution proposed is relevant to the understanding)
2. Solution architecture conceptualized for this project. Meeting the business requirements
3. Security architecture
4. Application deployment and testing Strategy
5. Quality Control suggested by responding firm
6. Integration architecture with other system
7. BCP & DR plan
8. Strategy for infrastructure deployment at data center to be proposed to meet SLA (Separate installation for Development / Test / Production)

Bidder also has to provide the following information as per the solution provided in the technical bid

S. No	Proposed Solution (Provide the Product Name or fill Custom Built, in case of a new development)	Version & Year of Release	OEM	Features & Functionalities	Whether the solution is in compliance	Reference in the Submitted Proposal (Please provide page number/section number/volume)

- a. **(* Provide the Product Name or fill Custom Built, in case of a new development** (It is possible that the SI has not suggested the solution as the list is indicative only. In case any of the items is not provided, the SI may indicate N/A in the corresponding cells.)
- b. Please indicate N/A where not applicable. Please indicate N/L where there is no license requirement.
- c. All the system software licenses shall be procured by the bidder. The system software licenses mentioned in the Bill of Materials shall be genuine, perpetual, full use and should provide patches, fixes, security updates directly from the OEM at no additional cost to APTS for the entire period of contract.
- d. All the licenses shall be owned by the SI

6.2.5 Form T5: Declaration for Bill of Material – Infrastructure

Bidder must submit the detailed bill of material for various components of the solution. Bill of material should include at least the following details; Item Name, Type, Technical Specifications, Model Name, OEM and Data sheet. Technical Compliance Statement for each item procured under the project as per details given in Bill of Quantity and Technical Specifications given in Volume-I of this RFP.

The Infrastructure would be owned and provided by Government of Andhra Pradesh whereas SI should Install, Commission, Configure, Test, Integrate, Manage and Support the application and off the shelf software as per the time frame stipulated by the given in the subsequent section(s) that meets or exceeds the requirements/guidelines stipulated in this RFP.

To ensure the SI to implement the application, the SI shall give the breakup of the essential/critical BOM to be made available as per the timelines.

S.No	Description	Quantity
	Hardware	

Bidders shall furnish the required information on their technical and commercial proposals in the enclosed formats only. Any deviations in format may make the tender liable for rejection. Do not, otherwise, edit the formats and proposal cover letters.

6.2.6 Form T6: Proposed Approach and methodology for the solution proposed

The bidder should provide detailed description for all the parameters mentioned below

- a. Project requirement assessment, System integration and Customization requirements, testing, deployment, warranty and maintenance, facilities management
- b. SLA management methodology, SLA monitoring console for PMU
- c. Highlight the associated risks/ problems and plans for mitigation and explain the technical approach it would adopt to address them
- d. Methodology for Integration
- e. Planning and Building Infrastructure (assessment, design, integration/ migration of existing Portal infrastructure)
- f. Program management, Governance, escalation matrix

6.2.7 Form T7 : Proposed Formation/Location of Helpdesk & other manpower support

The bidder should provide detailed description for all the parameters mentioned below

- a. Proposed methodology of formation of the manpower support team, Operating and Maintaining Application and Helpdesk:
- b. Methodology for Helpdesk Management

6.2.8 Form T8: Project Management Framework

The bidder should provide detailed description for all the parameters mentioned below

The proposal should clearly and concisely define the project management framework that shall be followed by the bidder. The framework should contain at least but not limited to the following:

- a. The Project Organization & Quality Management Strategy
- b. Communication Management Strategy
- c. Configuration Management Strategy
- d. Risk Management Strategy - Highlight the associated risks/ problems and plans for mitigation and explain the technical approach it would adopt to address them
- e. Adherence to the proposed timelines Activities, Sequencing and dependencies among activities

6.2.9 Form T9: Work Plan and Resource allocation

The bidder should provide detailed description for all the parameters mentioned below

Apart from the detailed Project Plan proposed by the Bidder, the following to be provided which would be evaluated in the following parameters:-

- a. Go-live and Operational Plan
- b. Infrastructure Deployment plan
- c. O & M Plan
- d. Integration Plan

The Bidder need to provide the activity schedule as per the table given below

S.	Activity ¹	Calendar Months
----	-----------------------	-----------------

No	1	2	3	4	5	6	7	8	9	10	11	12	n
1													
2													
3													
N													

- 1 Indicate all main events / milestones / activities of the assignment, including delivery of reports (e.g.: inception, interim, and final reports), and other benchmarks. For phased assignments indicate activities, delivery of reports, and benchmarks separately for each phase.
- 2 Duration of activities shall be indicated in the form of a bar chart.

6.2.10 Form T10::Key resources proposed

The bidder should provide detailed description for all the parameters mentioned below

The detailed Manpower Deployment Plan proposed by the Bidder would be evaluated in the following parameters:-

- a. Governance Structure – 0.5point
- b. Clearly defined roles and responsibilities of each key profile – 0.5point
- c. Resources proposed including key and support at each stage(onsite/offsite) – 0.5point

Local language support for helpdesk/ handholding – 0.5point

The bidder should provide detailed description for all the parameters mentioned below

6.2.11 Form T11: Team Composition

S. No.	Name of Staff	Qualification	experience	Past relevant experience	Position Assigned	Task Assigned

Note: Along with the details in the above table, please propose the governance structure.

6.2.12 Form T12 Team Deployment Structure

S. No.	Designation/ Name of the Staff	Staff input (in the form of a bar chart)								Total staff-month input		
		1	2	3	4	5	6	7	N	Offsite	Onsite	Total

6.2.13 Form T13: Team Profiles (CV Format)

(Please fill the details for each of the proposed team member)

1.	Name:				
2.	Date of Birth:				
	Nationality:				
3.	Contact details:				
4.	Education:				
	Name of Institution	Degree obtained (Subject)		Date of obtainment	
5.	Professional Training:				
6.	Countries of Work Experience:				
7.	Languages:		Speaking	Reading	Writing
		English			
		Hindi			
		Telugu			
		...			
8.	Employment Record:				
a.	From:		To: Till Date		
	Employer:				
	Positions held:				
b.	From:		To: Till Date		
	Employer:				
	Positions held:				
c.					
9.	Detailed Tasks Assigned:				
10.	Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned				

	<p>i. Name of the Project: Year: Duration: Client: Main project Features: Position Held: Activities Performed:</p> <p>ii. Name of the Project: Year: Duration: Client: Main project Features: Position Held: Activities Performed:</p>	
<p>11.</p>	<p>Certification:</p> <p>I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.</p> <p>Date: Authorized signatory:</p>	

6.3 Commercial Submission Forms

6.3.1 Form C1: Financial Proposal Submission Form

Location

Date

To

Managing Director,
Andhra Pradesh Technology Services
Andhra Pradesh Technology Services
R&B Bldg, 3rd Floor, Labbipet,
Vijayawada - 520010, India

Dear Sirs:

We, the undersigned, offer to provide the System Integration Services for development and implementation of the NaaS in Andhra Pradesh in accordance with your Request for Proposal dated <<>> and our Technical Proposal.

Our attached Financial Proposal is detailed in Form C2 and Form C3 is *inclusive of all taxes, duties, levies as may be applicable and any Out-of-pocket and incidental expenses.*

Our Financial Proposal shall be binding upon us until the expiration of the validity period of the Proposal.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature {In full and initials}: _____

Name and Title of Signatory

Address:

Email:

6.3.2 Form C2: Establishing CORS Network System

S.No	Description	Price per Unit /Year(A)	Tax (B)	Total Price Per Unit/year (C)=(A) +(B)	Quantity (D)	Total Price (E) =(C) *(D)
1.	Planning and designing of CORS network RTK system for Jaggayyapeta Mandal and Krishna District including Network Operations Center And Supply, installation, integration and commissioning of CORS and its accessories				4	
2.	Control Center Software Cost including Maintenance and Training to the Officers as per RFP				1	
3.	Supply, installation, integration and commissioning of Infrastructure				1	
4.	AMC cost for the CORS and its accessories				1	
5.	AMC for the Control Center Software				1	
Total Cost for Establishing CORS Network System						

Authorized Signature {In full and initials}: _____

Name and Title of Signatory

Address:

6.3.3 Form C2 (a) Infrastructure cost for Supply, Installation, Integration and Commissioning of Infrastructure

S.No	Description	Quantity	Unit Cost	Taxes	Total Cost
A	B	C	D	E	F= D+E
Infrastructure @ Data Center		Set			
1.	Servers	1			
2.	Desktop Computer	1			

3.	IPS, IDS, Firewall	Set			
4.	Load Balancer	Set			
5.	Switches with required accessories	Set			
6.	UPS 1 KVA	1			
7.	42 inch LED TV	1			
Total Cost					

Note: The total cost of Form C2(a) shall go as input to Form C2 . S.No (3).

6.3.4 Form C3: Need Based Survey Cost

S.No	Description	Unit	Reserve Amount Fixed by Authority (Rate Per Unit) in INR (incl. Taxes)	Weightage	Price Quote of Applicant in Rs. (Incl. Taxes)
1a)	Patta sub-division creation after mutation/while mutation	up to Acre 2.00	500/-	25%	
1b)		Acre 2.00 to Acre 5.00	750/-	20%	
1c)		Above Acre 5.00	1000/-	25%	
2	Land Acquisition				
a)	Canal/Roads/Railways etc.. (narrow fields)	1 kilometre	5000/-	3%	
b)	APIIC/Other Industrial Purposes	1acre	250/-	5%	
c)	Submerged areas in irrigation projects	1acre	250/-	5%	
d)	R&R Packages(Layout)	10 Plots	1000/-	5%	
e)	Submerged Habitations Survey	10 Plots	800/-	7%	
3	Land Alienation	1 Acre	250/-	2%	
4	Rebuilding of FM Sketches by ground survey	1 Acre	450/-	3%	
Total Need Based Survey Cost				100%	

Note: The bidders quoting more than 5% of the reserved price as mentioned above will be rejected.

Authorized Signature {In full and initials}: _____

Name and Title of Signatory

Address:

7 Compliance Requirements

7.1 Pre- Qualification Compliance

S. No.	Particulars/ parameters	Compliance (Yes / No)	Page No
1.	Certificate of Incorporation of the Bidder (Legal Entity)		
2.	Certificate of Incorporation (for Companies) or copy of Partnership Deed (for Partnership)		
3.	Certificate of the Bidder Firm		
4.	Pending Litigation and Declaration regarding Clean Track Record as per Form P4(a) and P4 (b)		
5.	Self-Declaration on Black listing from the Prime as per the Form P5		
6.	Bidders Audited financial statements and a certificate of revenue composition for each of the 3 years as per Form P6 by the Auditor for FY 16-17, FY 15-16 and FY14-15 for Annual Turnover		
7.	Audited financial statements of the Bidder and a certificate of revenue composition for each of the 3 years as per Form P6 by the Auditor for FY 16-17, FY 15-16 and FY14-15 for Positive Net worth		
8.	Details of Experience of responding firm/ Project Citation for projects as per Form P8 supported with Work order and Proof of Go-live/ Project completion certificates from client		
9.	Receipt of the Bid Purchased from APTS. The Bidder has to purchase the tender documents from APTS.		
10.	Self-declaration (An affirmative statement) on actual or potential conflict of interest on the part of the SI or any prospective subcontractor due to prior, current, or proposed contracts, engagements, or affiliations with APTS.		
11.	Declaration as Per G.O Ms 12 to be submitted		
12.	Manufacturer's Authorization Form (MAF) MAF as per Form P10 to all the products as proposed in the Proposal		

7.2 Technical Compliance

S. No.	Evaluation Criteria	Form No	Compliance (Yes / No)	Reference Page Number in Proposal
I	Past Experiences and Technical Expertise			
A	Previous Similar Project Experience supplying, installation and commissioning of CORS Network(RTK) system including Software,	T1		

S. No.	Evaluation Criteria	Form No	Compliance (Yes / No)	Reference Page Number in Proposal
	hardware with all accessories			
B	Previous Similar Project Experience in executing atleast 3 Project in Cadastral Surveys using DGPS/CORS	T2		
C	Previous Similar Project Experience in Geo-referencing of land parcels for Cadastral purposes	T3		
II	Technical Solution Offered			
A	Compliance to Specifications of CORS	RFP Vol I Chapter 5		
B	Proposed Approach and Implementation methodology for the solution proposed	T4,T5 and T6		
D	Facility Management, Help Desk and AMC	T7		
III	Proposed Team, Project Management and Work Plan			
A	Project Management	T10		
B	Work Plan including WBS	T11		
C	Manpower Deployment Plan	T12		
D	Quality of CVs proposed for the project	T8		

8 Annexures

8.1 Annexure A Technical Specifications for GNSS Receiver with Antena

The bidders shall specify the specifications of CORS equipment's to be supplied. The Compliance report should be enclosed along with technical bid. Specification of offered equipment's is to be written clearly in the column of "OFFERED SPECIFICATIONS" in the table given below. Offers without clear specifications on the said column will be treated as non-responsive and rejected.

S.N o.	Item/Equipme nt	Specifications	OFFERED SPECIFICATIONS
1	Geodetic Multi frequency GNSS Receiver	GNSS Tracking:	
		Minimum 400or better channels capable of simultaneously tracking GPS (L1, L2, L2C, L5), GLONASS (L1, L2), GALILEO (E5a, E5b, AltBOC), BeiDou, NavIC L5 and SBAS (WAAS, EGNOS, MSAS,GAGAN)	
		Multipath mitigation	
		Positioning performance& Accuracy:	
		Code	
		Network	
		Single Baseline Differential (<30 KM) Hz: 0.25m+1ppm Hz: 8mm+ 1ppm Hz: 8mm + 1ppm V : 0.5m+ 1ppm V : 15mm+ 1ppm V : 15mm + 1ppm	
		Initialization Time: ≤10 Sec with a reliability of>99.9%	
		Power Supply	
		MiniUSB	
		Support for two power supplies simultaneously (from Ac and Dc sources)	
		Uninterrupted Power supply through suitable Solar panel of best quality	
		Power consumption: typically less than 5watts	
		Data Logging & Memory	
		≥ 20 Hz or higher	
		Minimum 32GB memory combined)	
Communication			

		Serial RS232 port, Bluetooth , USB & Ethernet	
		Should support IP based communication and compatibility with Industry standard communication with integrated GSM/GPRS modems for data pooling.	
		Should support NTRIP, CLIENT, SERVER and CASTER functionality	
		Should support TCP/IP and FTP push	
		Web Interface: Secured device access via Ethernet and E-mail	
		User Interface : web interface	
		Should support remote monitoring, control and configuration including firmware upgradation	
		Environmental Specifications	
		Storage Temperature range from –10°C to +80°C	
		Operating Temperature range from –10°C to +65°C	
		Compliance with IP67 and MIL-STD 810F or 810G standards	
		Humidity: 100% condensing	
		Shock & drop compliance with industry standards	
		Data Formats	
		Output: RINEX 2.11, RINEX 3.01, RINEX 3.02	
		Correction: CMR, CMR+, RTCM v2.1/2.2/2.3/3.2, BINEX, NMEA-0183	
2	Interoperability	The GNSS receivers of CORS supplied should be compatible with all the DGPS equipment's available in the market. i.e. They should be vendor neutral with respect to the GNSS receivers to be used in cadastral survey	
3	Geodetic Choke Ring Antenna	Geodetic choke ring antenna	
		Should be capable of tracking GPS (L1, L2, L5), GLONASS (L1 and L2) and GALILEO (E1,E6)	
		Phase center accuracy: 2 mm or better	

		Phase center repeatability: <1mm	
		Antenna gain: optimal	
		Antenna cable length as per site requirement without the need for an in-line amplifier	

8.2 Annexure B Control Server Specifications

Sl. No.	Requirement at each location	Specifications
<p>Control centre and full active architecture with scope for Clustering, virtualization and scalability for future expansions should have the capability to handle 500 Network users and should cater for at-least 500 concurrent users</p>		
1	Civil and Electrical :	<ul style="list-style-type: none"> All civil works including Refurbishing of Control Centre (approx. 600 sq. Feet area at each site) with False ceiling and flooring for cable routing , fitting Precision ACs and de-humidifier etc. All Electrical works (incl. Earthing) for installing the Control centre components with power back-up
2	Power Back-up	Un-interrupted power back-up arrangement with redundancy (Detailed power calculation sheet is to be submitted with the bid)
3	Precision AC & De-humidifier	For approx. 600 sq. Feet area at each site with redundancy
4	Lightening Conductor And Surge protection	Lightening Conductor and Surge protector of reputed brand as per the UNAVCO specs
5	Server	<p>Standard 42U Rack mountable chasis based following servers of reputed make DELL/IBM/HP etc with fault tolerant architecture:</p> <ul style="list-style-type: none"> (i) Control Server: For processing the Network corrections (ii) Site Server: Secure interface to receive CORS data (iii) Web server: User Interface (iv) FTP server: for raw CORS data <p>Server system Rack 4U- Processor: 2X Intel Xeon Octa Core E7-4809 v4 Processor @ 2.1 GHZ (20 MB cache) or above upgradable to Four processor, Memory : 64 GB DDR4, registered memory (RDDR4) scalable to 384 GB with ECC support, Intel C600 Series Chipset, RAID Controller: 0/1/512 GBPS SAS with 1 GB flash</p>

		backed cache, Hard Disk Drive : 3X600 GB 12 GBGPS SAS 15L Hot Plug expandable upto 8 Nos., Form Factor/Cabinet Type: 4U Rack Mountable, Redundant System and Hot Plug Fans, Internal/External DVD-RW, Minium 4 PCI-Express Slots atleast two of them PCI 3.0), 1 GBPS Quad Port Network Adapter, USB-min 4 Nos., Power Supply: hot-pluggable 2+2 redundancy, OS support: Latest Microsoft Windows Server
7	Other hardware components	<p>All hardware components viz load balancer (s), hardware Firwall (s), L3 switches, Other Switches, Routers etc required as part of the solution for requisite architecture with details of all sub-components in detail with the bid</p> <p>A27-G-KVM Switch 8 Port</p> <p>1 KVA LIA UPS with 60 minutes SMF (Panasonic/Exide/ BASE or any reputed) battery back up.1 KVA LIA UPS with 60 minutes SMF (Panasonic/Exide/ BASE or any reputed) battery back up.</p> <p>Firewall FG-100D (1-200 Users)- Copper Gbe Ports-10, 1 GbE SFP (Mini GBIC) Ports, 10 GBE SFP (Mini GBIC) Ports, Console Ports (RJ45)-1, USB Ports-2, Hardware Bypass Segement#-2, Configurable Internal/DMZ/WAN Ports=yes</p> <p>42inch LED TV -42 LED TV Screen size 108 cm (42), Ethernet input-1, HDMI Input-3, USB Ports-2, Display resolution (Hx V Pixels)-HD 1920 X 1080, Connectivity-Mirroring, photo sharing, plus, screen mirroring (Miracast) Video & TV Side (iOS Android)</p>
8	Desktop computer with Display	<p>I. Desktop Computer – Intel i7 4770 Processor or Higher with Linux Operating System-</p> <p>I. Intel core i7- 4770 Processor at 3.4 Ghz or Higher, 4 GB DDR3 @ 1600 MHz upgradeable upto 16 GB, 3 PCI/PCI Express Slots, 1 GBPS Network card, 4 USB Ports, 2 PS 2 Port, 18.5 inch TFT/LCD TCO Certified Colour Monitor, 500 GB HDD, DVD Writer, Membrane Keyboard, Optical Mouse, 3 Bays with preloaded BOSS Linux with Tamil Office S/W along with DVD Media Kit with 1 year support. 8 GB DDR3 Memory, HDD-G-2 TB HDD Inlieu of 500 GB SATA HDD,</p>
12	OS Support	Windows Server OS with modules for Clustering, Virtualization, Remote server management etc.
13	Management	<ul style="list-style-type: none"> • GUI & CLI based remote management. • Management host must be provided with the solution. <p>Periodical online firmware upgrades.</p>
15	Warranty	Two years comprehensive on-site warranty support

8.3 Annexure C Status of Mutation Cases in Jagayyapeta Mandal

Status of Mutation Cases In Jaggayyapeta Mandal From 01-04-2017 To 13-05-2018

Sl.No.	Village	Total Transactions	Total Pending
1	Annavaram	32	0
2	Anumanchipalli	101	2
3	Koutavari Agraharam	37	4
4	Gandrai	120	7
5	Garikapadu	17	0
6	Gowraram	73	8
7	Chillakallu	88	12
8	Jaggayyapeta	92	10
9	Jyantipuram	16	0
10	Takkellapadu	88	6
11	Tripuravaram	11	2
12	Torraguntapalem	8	0
13	Tirumalagiri	155	13
14	Pochampalli	88	6
15	Bandipalem	165	23
16	Balusupadu	47	5
17	Budawada	90	12
18	Bhuchavaram	55	6
19	Malkapuram	123	9
20	Mutkeswarapuram	33	2
21	Ramachandrunipeta	82	2
22	Raavikampadu	61	6
23	Raavirala	9	0
24	Vedadri	39	2
25	Shermohammedpeta	62	1
Total		1692	138

8.4 Annexure D Status of Mutation Cases in Krishna District

Status of Mutation Cases Krishna District From 01-04-2017 To 13-05-2018

Sl.No.	Mandal	Total Transactions	Total Pending
1	A Konduru	1657	176
2	Agiripalle	1236	55
3	Avanigadda	291	21
4	Bantumilli	1247	98
5	Bapulapadu	2366	116
6	Challapalli	949	68
7	Chandarlapadu	2104	143
8	Chatrai	1570	144
9	G Konduru	1520	77
10	Gampalagudem	1272	144
11	Gannavaram	3215	274
12	Ghantasala	1102	54
13	Gudivada	1719	179
14	Gudlavalleru	760	49
15	Gudur	1341	105
16	Ibrahimpattanam	681	67
17	Jaggayyapeta	1692	138
18	Kaikalur	971	49
19	Kalidindi	966	22
20	Kanchikacherla	1302	90
21	Kankipadu	1791	139
22	Koduru	392	45
23	Kruthivennu	695	61
24	Machilipattanam	2411	180
25	Mandavalli	1162	76
26	Mopidevi	893	31
27	Movva	1361	115
28	Mudinepalli	2017	165

29	Musunuru	2173	163
30	Mylavaram	2412	172
31	Nagayalanka	366	18
32	Nandigama	1991	265
33	Nandivada	1847	170
34	Nuzvid	1513	306
35	Pamarru	1085	97
36	Pamidimukkala	2030	265
37	Pedana	1932	178
38	Pedaparupudi	1017	64
39	Penamaluru	697	43
40	Penuganchiprolu	1664	67
41	Reddigudem	1846	173
42	Thotlavalluru	706	31
43	Tiruvuru	1184	133
44	Unguturu	2121	214
45	Vatsavai	1758	135
46	Veerullapadu	1118	53
47	Vijayawada Rural	1352	134
48	Vijayawada Urban	15	0
49	Vissannapet	1732	307
50	Vuyyuru	903	81
	Total	70145	5950

8.5 Annexure E Details of Village Wise Govt/Govt Interested Lands of Jaggayapeta Mandal

Sl.No.	Name of the Village	No.of RS Nos. / SD Nos of Govt. Lands	No.of RS Nos. of Endowment Lands	No.of RS Nos. of Wakf Lands	No.of RS Nos. of APIIC Lands
1	Annavaram	137	1	NIL	NIL
2	Anumanchipalli	152	37	NIL	NIL
3	Balusupadu	135	2	NIL	NIL
4	Bandipalem	425	5	1	NIL
5	Buchavaram	109	10	NIL	NIL
6	Budawada	296	NIL	NIL	NIL
7	Chillakallu	215	7	NIL	NIL
8	Gandrai	112	2	NIL	NIL
9	Garikapadu	46	5	NIL	NIL
10	Gowaravaram	238	13	NIL	NIL
11	Jaggaiahpet	410	NIL	NIL	NIL
12	Jayanthipuram	77	NIL	NIL	1
13	K.Agraharam	59	2	NIL	NIL
14	Malkapuram	102	2	NIL	NIL
15	Muktheswara puram	65	22	NIL	NIL
16	Pochampalli	343	3	NIL	NIL
17	Ramachandruni peta	53	2	NIL	NIL
18	Ravikampadu	46	NIL	NIL	NIL
19	Ravirala	58	2	NIL	NIL
20	Sheremohammadpeta	116	7	NIL	3
21	Takkellapadu	91	2	NIL	NIL
22	Tirumalagiri	147	32	1	16
23	Torraguntapalem	23	3	NIL	NIL
24	Tripuravaram	28	NIL	NIL	NIL
25	Vedadri	77	26	NIL	NIL
	Total	3560	185	2	20

8.6 Annexure F Details of Village Wise Land Holdings for Survey Sub Division Work by Geo-Referencing in Jaggayyapeta Mandal, Krishna District.

Sl.No.	Name of the Village	No.of Subdivisions in Digitized FMBs	No. of Land holdings in Sy. Nos. as per Adangal	No. of Backlog subdivisions to be surveyed and incorporated in FMBs
1	Annaram	782	1257	475
2	Anumanchipalli	1125	2318	1193
3	Balusupadu	405	790	385
4	Bandipalem	1967	3604	1637
5	Buchavaram	446	1344	898
6	Budawada	1130	2221	1091
7	Chillakallu	1006	1896	890
8	Gandrai	547	1606	1059
9	Garikapadu	189	401	212
10	Gowaravaram	1288	2022	734
11	Jaggayyapeta	1394	2631	1237
12	Jayanthipuram	321	529	208
13	K.Agraharam	459	540	81
14	Malkapuram	580	1556	976
15	Muktheswara puram	375	547	172
16	Pochampalli	1632	2768	1136
17	Ramachandruni peta	173	584	411
18	Ravikampadu	246	566	320
19	Ravirala	201	439	238
20	Sheremohammadpet a	422	866	444
21	Takkellapadu	308	803	495
22	Tirumalagiri	524	806	282
23	Torraguntapalem	88	260	172

24	Tripuravaram	378	484	106
25	Vedadri	402	726	324
	Total	16388	31564	15176