

GOVERNMENT OF ANDHRA PRADESH
FOREST DEPARTMENT

TENDER DOCUMENT FOR
DGPS SURVEY OF NOTIFIED FOREST BLOCKS
of Hyderabad, Mancherial, Bhadrachalam North, Kurnool and Guntur Divisions
and
SUPPLY & ERECTION OF STONE MONOLITHS
of 1.5m*23cm*23cm Size at each Control Point

ANDHRA PRADESH FOREST DEPARTMENT
NOTICE INVITING TENDER (Online version)

Item No.	Item Description	Item Particulars
A.	Department Name	Andhra Pradesh Forest Department
B.	Circle/Division	IT Wing, O/o Principal Chief Conservator of Forests
C.	FILE / NIT Number	21896/2011/IT-I
D.	Tender Subject	DGPS Survey of Notified Forest Block Boundaries and Supply & erection of Stone Monoliths of 1.5m*23cm*23cm size at each Control Point
E.	Quantity	5 Packages - Hyderabad, Mancherial, Bhadrachalam North, Kurnool and Guntur Forest Divisions
F.	Period of Contract	6 months
G.	Form of Contract	
H.	Tender Type	Open
I.	Tender Category	Services
J.	EMD Amount (INR)	Rs.1,00,000/ (Rupees One Lakhs only) for each Package
K.	EMD payable:	Demand Draft drawn in favour of Divisional Forest Officer, Hyderabad payable at Hyderabad from any scheduled Bank.
L.	Bid Document Downloading Start Date	21.02.2012, 5 p.m.
M.	Bid Document Downloading End Date	22.03.2012, 3 p.m.
N.	Pre-bid conference	01.03.2012, 11.30 a.m.
O.	Last Date & Time for Receipt of Bids	22.03.2012, 5 p.m.
P.	Bid Validity Period	60 Days
Q.	Technical Bid Opening Date and Time (Qualification and Eligibility Stage)	24.03.2012, 11.30 a.m.
R.	Method of selection:	Lowest Commercial Bid, but not Quality- and Cost-Based Selection (QCBS) method (Tech 70%: Fin : 30%) as was published earlier.
S.	Date of presentation on methodology to be adopted by firm	03.03.2012, 3.00 p.m. (can be submitted with the bid documents for evaluation)
T.	Price Bid Opening Date and Time (Financial Bid Stage)	28.03.2012, 3.30 p.m.
U.	Place of Tender Opening	Chambers of Addl. Prl. Chief Conservator of Forests(IT), Room No 563, Aranya Bhavan, Saifabad, Hyderabad.
V.	Tender Inviting / Opening Authority	Addl. Prl. Chief Conservator of Forests (IT), 9440810015 Phone No: 0402321538, Fax No.04023240541
W.	Address/ E-mail id	O/o Principal Chief Conservator of Forests, Aranya Bhavan, Saifabad, Hyderabad. apccf_it_apfd@ap.gov.in , apccf_gis_apfd@ap.gov.in , acf_gis_apfd@ap.gov.in
X.	Contact Details/ Telephone, Fax	1. Dr. A. Rama Murthy, ACF (RS), Geomatics Center, 9440810186, murthyar@rediffmail.com 2. Sri P. Sreenivasa Rao, ACF(GIS), Room No:327, 9440810176, acf_gis_apfd@ap.gov.in 3. Dr H.C. Mishra, IFS, APCCF(GIS), Room No. 571, 9440815455, apccf_gis_apfd@ap.gov.in , Fax 040-23232054 4. Sri P.K. Sharma, IFS, APCCF(IT), Room No. 563, 9440810015, apccf_it_apfd@ap.gov.in , Fax No.040-23240541 O/o PCCF Aranya Bhavan, Saifabad, Hyderabad.
Y.	Eligibility Criterion	i. The Tenderer should be an ISO 9001 or equivalent certified company for providing GIS services – Copy of Certification must be furnished ii. The Tenderer should possess all requisite licenses, registrations etc., and the same should be obtained invariably before transacting business with A.P. Forest Department.

	<ul style="list-style-type: none"> iii. The bidder must have experience in DGPS/TS based surveying and mapping and GCP establishment for last 5 years as on bid calling date, preferably the forest areas, village cadastral boundaries and the areas with hostile conditions. iv. The bidder must have minimum experience of DGPS/TS based survey of more than 1000 km² area - testimonials from the clients must be furnished. v. The bidders shall have atleast 1 set of dual DGPS frequency receivers & 2 single frequency DGPS receivers. vi. The bidder must have affiliation/recognition with ISRO/ NRSC/ SRSACs/ SAC/ NASA/ any Government organization or institution dealing with Geomatics activities. vii. The bidder should have base in Andhra Pradesh and the details of office infrastructure facilities available in Andhra Pradesh be furnished - details must be furnished. viii. The bidder must have at least 15 man power on company roll with required skills & qualifications to handle DGPS/TS and its associated software, as well as Geomatics software - details must be furnished along with their salary slips ix. The bidder should have executed 15 Geomatics works like Survey/ Photogrammetry/ Remote Sensing & Image Processing - details must be furnished. x. The bidder shall either be a Society/firm/company registered under Societies Act/ the Indian Partnership Act/ Indian Companies Act 1956 or as the case may be for at least 5 years as on 31st March 2011. xi. The bidder shall not have been blacklisted anywhere.
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<p>Z.</p>	<p>Procedure for Bid Submission</p>	<ol style="list-style-type: none"> 1. Bids shall be submitted online. Few copies of documents will be accepted offline, in case the tenderer failed to upload documents, because of network traffic in the website. However, the financial bid must be online only. 2. The participating bidders in the tender should register themselves free of cost on e-procurement platform in the website www.eprocurement.gov.in (OR) https://tender.eprocurement.gov.in 3. The bidders who are desirous of participating in e-procurement shall submit their technical bids, financial bids as per the standard formats available at the e-market place. The bidders should scan and upload the below mentioned documents; and submit all the attested hard copies in separate sealed covers for technical, financial and EMD and then sealed into a big cover to Assistant Conservator Forests (GIS), O/o Principal Chief Conservator of Forests, Room No:327, Aranya Bhavan, Saifabad, Hyderabad on or before opening of technical bids. <ol style="list-style-type: none"> a) EMD in the form of Demand Draft payable in favour of the Divisional Forest Officer, Hyderabad, payable at Hyderabad of any of the scheduled bank branches for the amount indicated in Item No. J and it should be scanned and uploaded at the time of Tendering. b) Technical expertise, support & experience <ol style="list-style-type: none"> i. List of relevant projects executed with the name of the client, value of work, location of work etc along with supporting work order/completion certificate. ii. List of major Geomatics works executed like Survey/ Photogrammetry/ Remote Sensing executed by the consultant firm along with the name of the client, value of work, location of work, work order/completion certificate etc iii. Details of man power proposed for the work along with skills & qualifications iv. List of DGPS instruments along with make and POs. c) Brief Methodology for carrying out the Survey d) Registration of the firm. e) Copy of PAN Card and Income Tax return of the year 2010-11 f) Copy of Service Tax Registration and up to date Return g) Copy of the annual return submitted to EPF Commissioner, if applicable. h) Copy of up to date VAT clearance Certificate i) Copy of ISO Certification. j) Copy of Affiliation/recognition certificate from ISRO/ NRSC/ SRSACs/ SAC/ NASA/ any Government organization or institution dealing with Geomatics activities k) Declaration that they have not been black listed anywhere. <p>The Technical, Commercial Bids and the EMD shall be sealed separately in covers and all the covers shall be sealed in a bigger cover and be submitted to APFD, duly writing the tender subject and the other important events.</p>
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AA.	Transaction Fee Payable To	M/s Vayam Technologies Limited , Hyderabad. (ON LINE)

AB.	General Terms and Conditions	<p><u>TENDER CONDITIONS FOR ‘DGPS Survey of Notified Forest Blocks of Hyderabad, Mancherial, Bhadrachalam North, Kurnool & Guntur Divisions and Supply & erection of Stone Monoliths at 1.5m*23cm*23cm at each Control Point’</u></p> <p>1) Online (e-Tendering) tenders are invited for providing the above said services. The A.P. Forest Department is desirous to have this tender in two bids i.e., (1) Technical bid and (2) Financial bid. The Tenderer shall possess all requisite qualifications as mentioned in Item No. Y and upload the scanned documents as mentioned in Item No. Z. All Tenderers should submit the attested copies of all scanned and uploaded certificates on online including ORIGINAL EMD to the Tender Inviting Authority on or before scheduled date and time of opening of the Technical bid as mentioned in NIT. The financial bids of those Tenderers who are technically qualified only, will be opened on the date and time as mentioned in the NIT by the PCCF or any other officer authorised by PCCF. The APFD may extend the last date by issuing an amendment in which case all rights and obligations of the APFD and the Tenderers previously subject to the original deadline will then be subjected to the new deadline. SUBMISSION OF TENDER DOCUMENTS OFF LINE WILL NOT BE CONSIDERED. (Few copies of documents will be accepted offline, if the tenderer could not upload the documents, because of network traffic in the website. However, the financial bid must be online)</p> <p>2) Depending on the capacity of the selected organization(s), the work may be distributed amongst multiple vendors, if required.</p> <p>3) Incomplete, ineligible and unused tenders will be rejected. Telegraphic tenders will not be accepted and no correspondence will be made in this regard.</p> <p>4) All offers shall be made in English. Conditional offers and offers qualified by such vague and indefinite expression such as “subject to immediate acceptance”, “subject to prior sale” etc will not be considered.</p>
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- 5) Adoption of unfair means to influence the authority offer may be lead to summarily disqualification.
- 6) An amount of **Rs.1,00,000/-** (Rupees One Lacs only) for each Package is to be remitted as EMD by way of an Account payee Demand draft drawn in favour of the DFO Hyderabad, payable at Hyderabad on any scheduled bank and should scan & upload at the time of tendering. The EMD of unsuccessful bidders will be returned on finalization of tender process. The EMD will be released to THE FIRM after successful completion of entire project. The EMD will not carry any interest. EMD is liable to be forfeited if the successful Tenderer fails to accept the Work Order to carry out the work & enter into Agreement within the time specified. EMD is liable to be forfeited, if the Tenderer asks for withdrawing his bid once the financial bid is opened.
- 7) **The rate should be quoted per running kilometre of the notified forest block boundary for each Package separately and also for supply & erection of stone monolith of size 1.5m*23cm*23cm at each Control Point, if permanent structure is not available to be selected as control point** (the details are given in RFP and Annexure I); and valid for acceptance for a period of 60 days from the date of opening.
- Firms are eligible to quote up to **3 Packages**. If firms are willing to participate in more than one Package they have to **furnish EMDs separately for each Package**.
 - It should be noted that in case if the FIRM qualifies for more than one package they must have instruments and man power separately for each Package as mentioned in **item Y and Para V of RFP** for awarding work. Work has to be carried out parallelly in all Packages.
 - The rate quoted should be inclusive of all taxes, charges etc. APFD cannot issue statutory forms like Form C or Form D etc and this should be taken into account by the firm while quoting the rates to APFD.
 - Since rate quoted is inclusive of VAT/CST payable no claim for VAT/CST payable will be admitted at a later stage & on any ground whatsoever, irrespective of the firm mentioning and recording any thing contrary to the above in the Quotation. After the implementation of VAT and even after any changes contemplated in the tax structure and the rate of taxes to be levied by the State Government the rates Quoted to APFD should be constant and it should be applicable to all work orders placed by APFD.
- 8) Negotiations will not be made with all Tenderers. In case of necessity, negotiations will be made only with lowest selected Tenderer(s) and in this regard the decision of the PCCF or APCCF (IT) shall be final and binding on the firm without any recourse.
- 9) The Financial bids of the Technically Qualified bidders will be opened on the date and time specified. A bidder must attain minimum technical score of 80% in the evaluation of its technical bid. The technical bid shall be evaluated on the basis of its responsiveness to what is required of the successful bidder as described in this RFP.
- 10) Criteria, sub-criteria, and point system for the evaluation of Technical Proposals furnished by the bidders are:**
- Registration, PAN, CST/VAT, Income Tax Returns, Auditor sheets, Annual Returns to EPF Commissioner etc [10]
 - Having **ISO Certification** [5]
 - Affiliation/ recognition** with ISRO/ NRSC/ SRSACs/ SAC/ any Government organization or institution dealing with Geomatics activities [5]
 - Specific experience of the Consultants relevant to the forest [5] or cadastral [5] or any boundary mapping related assignment[5] - **[Total 15]**
 - Specific experience of DGPS/TS based survey of more than 1000 km² area [10]
 - executed atleast **15 other Geomatics works** like DGPS/TS Surveying, GIS, Photogrammetry, Remote Sensing & Image Processing [10]
 - Possession of atleast 1 set of dual DGPS frequency receivers & 2 single frequency DGPS receivers [10]
 - Possession of atleast 15 man power on company roll with required skills & qualifications mentioned in RFP [5]

- (ix) Having Base in Andhra Pradesh [5]
- (x) Adequacy of the proposed methodology and work plan: [25]
 - a. Technical approach and methodology [15]
 - i. *General understanding – 45%*
 - ii. *Components coverage – 45%*
 - iii. *Pre-proposal site Inspection – 10%*
 - b. Innovativeness on project execution under hostile condition: [5]
 - c. Technical Presentation [5]

The minimum technical score required to pass is: 80 Points

11) The **formula** for determining the **Financial Scores** is the following:

$S_f = 100 \times F_m/F$, in which S_f is the financial score, F_m is the lowest price of all the bidders and F the price of the proposal under consideration.

Earlier the QCBC method was notified and the weights given to the Technical and Financial Proposals were: $T = 0.70$; and $F = 0.30$ and the lowest tenderer were supposed to be awarded the work.

However, the selection criteria had been modified. Instead of QCBC method, now the selection is purely based on the commercial bid only, offered by the technically qualified bidders (clause 10 above). The lowest tenderer will be awarded the work.

- 12) APFD reserves the right either to reject any or all tenders without assigning any reason. In this regard the decision of APFD is final and binding on the Tenderer without any recourse. Further, it is understood by both the parties to the tender and is specifically accepted by the Tenderer when the Tenderer files the tender before APFD, the acceptance or rejection of the tender by APFD, or methodology adopted by APFD, in short listing the companies for the survey & mapping work, shall not become a cause of action or ground to initiate any legal action before any Court or Courts of Law for obtaining any order, Injection, Direction etc., from the Hon'ble court or Courts to stall proceedings in APFD.
- 13) **The tendered quantity is tentative.** It may be increased or decreased at the discretion of APFD on the same terms and conditions even after the tender period. In other words increasing or reducing the tender quantity can be made by APFD even after the completion of the tender period and it is binding on the firm without any recourse.
- 14) The APFD reserves the right to accept or reject any tender and to cancel the tender process and reject all tenders at anytime prior to the award of contract without thereby incurring any liability to the affected Tenderer or any obligations to inform the affected Tenderers, the grounds of acceptance or rejection.
- 15) The details of project are given as '**Request for Proposal**' in this tender document.
- 16) **The work should be affected strictly as per Terms & Conditions.** The schedule is tentative and the APFD is having every right to revise the schedule.
- 17) The successful bidder (THE FIRM) has to enter into an agreement agreeing to all the conditions of the contract with the APFD on Non-judicial stamp paper of value of Rs.100/- within 15 days from the date of receipt of the intimation to him that his TENDER has been accepted. The format of agreement shall be supplied to THE FIRM along with communication of accepting the rates quoted.
- 18) **Performance/Security Deposit:** The Successful bidder has to furnish Performance/Security Deposit for an amount of Rs 2,00,000 (Rs Two Lakhs only) for each Package in favour of DFO, Hyderabad with a validity period of 1 year from the award of contract. It shall be released to THE FIRM after completion of THE Firm's performance obligations under the contract. It shall be in one of the following forms
 - i. A **Bank Guarantee** or
 - ii. An irrecoverable **Letter of Credit** or

iii. A cashier's certified Cheque,

issued by a reputed Indian Nationalized or private Bank located in the limits of Greater Hyderabad

- 19) The work should be affected strictly as per time schedule.
- 20) **Terms of Delivery:** THE FIRM shall complete the project within a **period of 6 months** from the date of execution of this Agreement; which could be extended by APFD for a further period of 3 months, if required. **Final Report** containing the maps and other outputs as given in given in Para II and III of RFP are to be delivered within a period of 6 months from the date of entering into Agreement. The time schedule given in Para III of RFP must be strictly adhered to by THE FIRM. The work turn out will be monitored once in a fortnight and it shall be in proportion with the time frame & the quantity of work.
- 21) Each output should be subjected to quality analysis. The outputs should be strictly in conformity with the specifications mentioned in Para II & III of RFP. APFD shall have the right to **test check the outputs** to confirm their conformity to the contract specifications at no extra cost to APFD.
- 22) **DELAY IN THE EXECUTION OF WORK:** In the event of delay in the execution of the work, the APFD reserves the right to entrust the work to any other Firm or Agency and the Firm shall be liable for recovery of the excess cost, if any incurred by APFD. However, if the cost is lower than that of the Firm, no benefit will accrue to the FIRM.
- 23) **REJECTION OF THE OUTPUTS:** All the outputs submitted against the work order shall conform to the specifications given in the order or informed to THE FIRM as the case may be. APFD reserves right to subject all outputs to quality analysis & accept or reject any or all outputs submitted by the Firm, if it/these are not in conformity with specifications mentioned in Para II & III of RFP. Where any output is rejected on account of its non-confirming to the specifications or due to non compliance to any other clause of the contract, the FIRM should promptly conduct resurvey of the boundaries (Para II) of RFP and resubmit the outputs mentioned in Para II & III of RFP at the discretion and satisfaction of APFD. All expenditure incurred on account of such resurvey and mapping shall be entirely borne by the FIRM. In this regard, the decision of the PCCF or any officer authorized by the PCCF shall be final and binding on the Firm.
- 24) **DELAY IN THE DELIVERY OF OUT PUTS:** If the FIRM fails to carry out the Survey or deliver outputs as per time schedule given or as per schedule modified from time to time by APFD, the APFD reserves the right to levy a penalty up to 5% of the value of the outputs submitted by THE FIRM as per the schedule. The imposition of penalty on contract value is as follows:
- a. Delay up to one fourth period of the prescribed period / completion of work - **1 %**
 - b. Delay exceeding one fourth but not exceeding half of the prescribed period / completion of work - **2 %**
 - c. Delay exceeding half but not exceeding three fourth of the prescribed period / completion of work - **3 %**
- 25) In the event of delay or default in work and the work is not adhering to the schedule given, the APFD reserves the right to carry out the surveying and mapping with the other sources and recover the excess cost, if any incurred by APFD, from THE FIRM. However, if the rate is cheaper, the benefit will not accrue to the FIRM.
- 26) **Payment Schedule:** Any/all payments shall be made after the production of Performance-cum-Security Deposit only. **No advance payment will be paid.** The payment will be made every month proportionate to the receipt of outputs mentioned in Para II & III of RFP in proper shape. The standard payment terms of APFD are applicable. The payment to FIRM shall be made by APFD through cheques only.
- 27) **OF PENALTIES:** APFD reserves the right to levy penalty or withhold part or full payment payable to the Firm for delay in the commencement of work, delay in the completion of work, submission of outputs not conforming to the specifications, submission of outputs by manipulation with out actually carrying out the field work without prejudice to Firm. In this regard, the decision of the PCCF or any officer authorized by the PCCF shall be final.
- a. The FIRM is further liable to reimburse / compensate the APFD the cost of survey/re-survey & mapping etc caused or arising out of the any act of breach of Agreement, in addition to imposing penalty @ 5% of the Agreement Value, forfeiture of the EMD and Performance-cum-Security Deposit besides being blacklisted for a period of five (5) years.

- b. For infringement of the stipulations of the contract or any other unjustified reasons by THE FIRM, the contract would be terminated by the APFD, and THE FIRM shall be liable to pay for all losses sustained by the APFD. In the consequence of the termination, the loss would be recovered personally from THE FIRM or from Performance/Security Deposit/EMD or other money due or from the FIRM properties.
- 28) If any outputs supplied by THE FIRM are subsequently found to be in bad order, inferior in quality or description or otherwise faulty, then the contract price will be recovered from THE FIRM, if payment had already been made to the FIRM. Otherwise THE FIRM will not be entitled to any payment what so ever for such outputs.
- 29) THE FIRM shall be liable for criminal proceedings under the appropriate Section/s of the Cr.P.C. for manipulation of the outputs, if any besides blacklisting and forfeiture of the EMD & Performance-cum-Security Deposit.
- 30) Notwithstanding anything contained in the terms and conditions of this Agreement the PCCF is the ultimate authority in deciding the recovery of percentage of penalty from THE FIRM taking into account the outputs position and future requirement of the surveying & mapping to be made in the larger interest of the organization.
- 31) The APFD shall not be liable to make any penal charges to THE FIRM, like interest on late payment of bills etc.
- 32) Proper security measures and care should be taken for the safety of the data in the field. Maps (if any) and satellite images (if any) should be handled with care and sufficient precautions should be taken against being damaged or lost. It should be not parted with to any other person/institution nor be copied /duplicated in any other form without prior permission of APFD. If drawings /maps/satellite image is lost or damaged, the cost incurred in the generation of such items will be recovered from the vendor.
- 33) THE FIRM should furnish copies of registration of firm, CST/VAT registration, Sales Tax registration and Latest Income Tax Assessment order, along with the Agreement, if not enclosed along with the tender and if APFD has consciously accepted the non-submission of documents along with the tender.
- 34) The APFD reserves the right to add/delete/change/modify any or all the conditions mentioned in the tender schedule and the said addition/deletion/changes/ modifications can be incorporated in the agreement to be entered into with the FIRM irrespective of tender conditions mentioned in the notice inviting tender or in the tender schedule or the same can be incorporated in a form of codicil as the case may be and the same will be binding on the FIRM without any recourse.
- 35) APFD reserves the right to terminate/ amend/ modify the contract without assigning any reason or advance notice to THE FIRM. Similarly terms and conditions of tender may be amended/ modified by APFD, if necessary, to ensure competitiveness and quality of work.
- 36) If evidences are found that THE FIRM fails or neglects to be complied with any of the terms and conditions of the contract or with any order issued there under then, in such a case, the APFD shall without prejudice to any other right or remedies under this contract as a right and be entitled to cancel the contract by giving a notice in writing to the FIRM without being liable to pay any compensation for such cancellation.
- 37) THE FIRM shall not be allowed at any time on any ground what so ever to claim revision or modification in the rates quoted by him.
- 38) THE FIRM has to furnish the declaration that they have not been black listed in any of the organizations. Any wrong declaration in this regard which comes to the notice at a later date will disqualify them from tendering in future in APFD and the tenders so received and the contracts so awarded shall be automatically rejected.
- 39) **Force Majeure:** If any time, during the continuance of this contract, the performance in whole or in part by either party or any obligation under this contract shall be prevented or delayed by reason of any war, or hostility, acts of the public enemy, civil commotion sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts or act of God provided notice of happenings, of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by any reason of such event be entitled to terminate this contract nor shall either party have any such claim for damages against the other in respect of such non-performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable

after such event may come to an end or cease to exist, and the decision of the APFD as to whether the delivery have been so resumed or not shall be final and conclusive, provided further that if the performance, in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days either party may, at his option terminate the contract. The event of delay caused shall not be counted towards the time schedule.

40) **Settlement of Disputes or Differences:** If the dispute or the difference of any kind whatsoever shall arise between THE FIRM and APFD in connection or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation. If the parties failed to resolve their dispute or difference by such mutual consultation, it shall be settled through arbitration provided either of them gives notice to the other party of its intention to commence arbitration. The dispute or difference arising would be subject to the jurisdiction of the civil courts at Hyderabad, A.P., only.

41) **Miscellaneous**

- a. This Agreement entered may be amended by the Parties only in writing, which writing must be signed by authorized representatives of the Parties.
- b. Each Party shall bear its own legal and other expenses incurred in connection with the execution of Agreement
- c. Headings used in this Document are for convenience and ease of reference only, and shall not be relevant to or affect the meaning or interpretation of the Document.
- d. In the event of any provision of the Agreement entered being held or becoming invalid, unenforceable or illegal for any reason, the Agreement shall remain otherwise in full force apart from the said provision, which will be replaced with a legally valid provision that most nearly reflects the same purpose as that of the deleted provision.

ANDHRA PRADESH FOREST DEPARTMENT
PROCEDURE FOR BID SUBMISSION ON E-procurement PLATFORM (e-Tendering)

The bidder shall submit his response through Bid submission to the tender on e-Procurement platform at www.eprocurement.gov.in by following the procedure given below.

1. The bidder would be required to register on the e-procurement market place www.eprocurement.gov.in or <https://tender.eprocurement.gov.in> and submit their bids online. Offline bids shall not be entertained by the Tender Inviting Authority for the tenders published in e-procurement platform.
2. The bidders shall submit their eligibility and qualification details, Technical bid, Financial bid etc., in the online standard formats displayed in e-Procurement web site. The bidders shall upload the scanned copies of all the relevant certificates, documents etc., in support of their eligibility criteria/technical bids and other certificate/documents in the e-Procurement web site. The bidder shall sign on the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity. The bidder shall attach all the required documents for specific tender after uploading the same during the bid submission as per the tender notice and bid document.
3. **Registration with e-Procurement platform:** For registration and online bid submission bidders may contact HELP DESK of M/s Vayam Technologies Limited, Hyderabad, www.eprocurement.gov.in or <https://tender.eprocurement.gov.in>.
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 e-Procurement platform.
5. **For obtaining Digital Signature Certificate, you may please Contact either of the following:**

Andhra Pradesh Technology Services Limited BRKR Bhavan, B-Block Tank bund Road, Hyderabad-500022 Phone: +91-40-23220305, Fax: +91-40-23228057	Any other Registration Authority of TCS- CA in India.
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The city-wise list of RAs is available by clicking the link "Apply for a Class-2 Certificate" under "Enroll" section in the website "<https://www.tcs-ca.tcs.co.in/mca21/index.jsp>

6. **Hard copies:**

- i. Attested copies of all original hard copies of the uploaded scanned copies of D.D towards EMD by participating bidders must submit to the tender inviting authority before scheduled date and time of the opening of the Technical bid, otherwise the tender will be rejected on online.
 - ii. All the bidders shall invariably upload the scanned copies of DD in e-Procurement system and this will be the primary requirement to consider the bid responsive.
 - iii. The department shall carry out the technical evaluation solely based on the uploaded/ submitted offline certificates/documents, DD towards EMD in the e-Procurement system and open the price bids of the responsive bidders after evaluation of technical bids and results of the samples.
 - iv. The department will notify the successful bidder for submission of original hardcopies of all the uploaded/ submitted offline documents DD towards EMD prior to entering into agreement.
 - v. The successful bidder shall invariably furnish the original DD towards EMD; Certificates/Documents of the uploaded scan copies to the Tender Inviting Authority before entering into agreement, either personally or through courier or post and the receipt of the same within the stipulated date shall be the responsibility of the successful bidder. The department will not take any responsibility for any delay in receipt/non-receipt of original DD/BG towards EMD, Certificates/Documents from the successful bidder before the stipulated time. On receipt of documents, the department shall ensure the genuineness of the DD/BG towards EMD and all other certificates/documents uploaded by the bidder in e-Procurement system in support of the qualification criteria before concluding the agreement.
7. The G.O. Ms. No. 174 –I & CAD dated: 1-9-2008- “**Deactivation of Bidders**”: If any successful bidder fails to submit the original hard copies of uploaded certificates/documents, DD 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.
8. The bidder is requested to get a confirmed acknowledgement from the Tender Inviting Authority a proof of Hardcopies submission to avoid any discrepancy.
9. **Payment of Transaction Fee:** All the participating bidders shall pay a transaction fee (non-refundable) as mentioned in the NIT payable to M/s Vayam Technologies Limited, Hyderabad through on line. (0.03% of estimate contract value + 10.30% service tax). It is mandatory for all the participant bidders from 1st January 2006 to electronically pay a Non-refundable Transaction fee to M/s. M/s Vayam Technologies Limited, the service provider through "Payment Gateway Service on E-Procurement platform". The Electronic Payment Gateway accepts all Master and Visa Credit Cards issued by any bank and Direct Debit facility/Net Banking of ICICI Bank, HDFC, Axis Bank to facilitate the transaction. This is in compliance as per G.O.Ms. 13 dated 07.05.2006. A service tax of 10.30% + Bank Charges for Credit Card Transaction of 2.09%(inclusive of service tax) on the transaction amount payable to M/s Vayam Technologies Limited shall be applicable.
10. **Corpus Fund:** As per GO MS No.4 User departments shall collect 0.04% of ECV (estimated contract value) with a cap of Rs.10,000 (Rupees ten thousand only) for all works with ECV up to Rs.50 crores and Rs.25,000/- (Rupees twenty five thousand only) for works with ECV above Rs.50 crores, from successful bidders on e-Procurement platform before entering into agreement / issue of purchase orders, towards e-procurement fund in favour of Managing Director, APTS. There shall not be any charge towards e-Procurement fund in case of works, goods and services with ECV less than and up to Rs. 10 Lakhs.
11. **Tender Document:** The bidder is requested to download the tender document and read all the terms and conditions mentioned in the tender Document and seek clarification if any from the Tender Inviting Authority. Any offline bid submission clause in the tender document could be neglected. The bidder has to keep track of any changes by viewing the Addendum/Corrigenda issued by the Tender Inviting Authority on time-to- time basis in the E-Procurement platform. The Department calling for tenders shall not be responsible for any claims/problems arising out of this.
12. **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. Users 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 A.P. Forest Department and M/s M/s Vayam Technologies Limited, Hyderabad, are not responsible for incomplete bid submission by users.

13. **For further clarification please contact:** in the O/o The Principal Chief Conservator of Forests, Aranya Bhavan, Saifabad, HYDERABAD.

Dr. A. Rama Murthy, Assistant Conservator of Forests (RS), Geomatics Center, Mobile: 9440810186, e-mail: murthyar@rediffmail.com

Sri P. Sreenivasa Rao, Assistant Conservator of Forests (GIS), Room No: 327, Mobile: 094408 10176, e-mail: srpalepu@yahoo.com, acf_gis1_apfd@ap.gov.in

Dr HC Mishra, IFS, Additional Principal Conservator of Forests (GIS), Room No: 571, Mobile: 094408 15455, e-mail: apccf_gis_apfd@ap.gov.in

14. **For any assistance on e-Tendering please contact:**

M/s Vayam Technologies Limited
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Land Line: 040-44426253 / 54 / 55 / 56
Mobiles: 93938-97936, 93938-97965
Fax: 040-44426252
e-Mail: helpdesk.eproc@vayamtech.com

Request for Proposal

DGPS Survey and Mapping of Notified Forest Areas

I. The Project Background:

The APFD is custodian of **63814 Km²** of notified forest land, which is 23.20% of the Geographical area of the AP State. The **main objectives** of the APFD are - Conserving and improving the existing Forests; Encouraging People's Participation in Forest Management; Conserving Bio-diversity and Genetic Resources; and Strengthening Social Forestry Activities. The APFD has an **organizational setup** of 12 Territorial & Wildlife Circles, 47 Divisions, 212 Ranges and 2700 Forest Beats. The forest areas are constituted into **forest blocks and compartments** for managing the forests & wildlife efficiently. To provide the **legal status** to the forests areas, the forest areas were declared as **RFs and PFs** under erstwhile Hyderabad Forest Act 1355 Fasli or Madras Forest Act 1882 or AP Forest Act 1967, based on available revenue records & field surveys carried out, by following prescribed procedures laid down in the said Acts and published in Gazette Notifications. There are over **3000** Notified Forest Blocks in AP. RFs, PFs and Un-classed forests constitute 50,479 Km² (79.10%), 12,365 Km² (19.38%) and 970 Km² (1.52%) of the total notified forest area, respectively.

Spatial databases of the forest blocks were created using the 1:50000 scale maps initially. However it is observed that there is mismatch in the locations when the GPS/DGPS surveyed data is overlaid on the digital forest blocks on account of the difference of scales. In order to avoid it and achieve near cent percent accuracy of the locations, it is proposed to take up survey and mapping of the boundaries of notified forest blocks **using DGPS or Total Station or a combination of Total Station & DGPS**, with reference to the Gazette Notifications and forest block records (like maps and field books etc.) and if requires making reference to the survey records of the revenue department, village records and SSLR records. The updated records and maps will be appended to the existing gazette notifications.

It has been decided to take up the work in the Hyderabad, Mancherial, Bhadrachalam North, Kurnool and Guntur Forest Divisions and to **outsource the work** of surveying & mapping and also to bring the survey data in to GIS mode to reputed companies/ organizations.

The Tendering Firms shall have the following qualifications:

- a. The Tenderer should be an **ISO 9001 or equivalent certified** company for providing GIS services – **Copy of Certification must be furnished**
- b. The Tenderer should possess all requisite licenses, registrations etc., and the same should be obtained invariably before transacting business with A.P. Forest Department.
- c. The bidder must have experience in DGPS/TS based surveying and mapping and GCP establishment for last 5 years as on bid calling date, preferably the forest areas, village cadastral boundaries and the areas with hostile conditions.
- d. The bidder must have minimum experience of DGPS/TS based survey of more than 1000 km² area - **testimonials from the clients must be furnished.**
- e. The bidders shall have atleast 1 set of dual DGPS frequency receivers & 2 single frequency DGPS receivers.
- f. The bidder must have affiliation/recognition with ISRO/ NRSC/ SRSACs/ SAC/ NASA/ any Government organization or institution dealing with Geomatics activities.
- g. The bidder should have base in Andhra Pradesh and the details of office infrastructure facilities available in Andhra Pradesh be furnished - **details must be furnished.**
- h. The bidder must have at least 15 man power on company roll with required skills & qualifications to handle DGPS/TS and its associated software, as well as Geomatics software - **details must be furnished along with their salary slips**
- i. The bidder should have executed 15 Geomatics works like Survey/ Photogrammetry/ Remote Sensing & Image Processing - **details must be furnished.**
- j. The bidder shall either be a Society/firm/company registered under Societies Act/ the Indian Partnership Act/ Indian Companies Act 1956 or as the case may be for at least 5 years as on 31st March 2011.
- k. The bidder shall not have been blacklisted anywhere.

The details of the forest blocks to be surveyed in Hyderabad, Mancherial, Bhadrachalam North, Kurnool and Guntur Forest Divisions are given in **Annexure I**

II. Scope of the work:

- a. **Survey of the boundaries of the notified forest blocks**
- b. Prepare & Supply geo-referenced maps along with report consisting of all the readings and photograph at each BP as evidence for notified forest blocks in LPS/GIS usable format (**e00 format**) in **Geographic Coordinate System - WGS84 datum of the respective Zone.**
- c. **Submission of RAW (for Rover and Base) as well as Post-Processed/ real-time differentially corrected (for Rover) DGPS readings** (along with source file, all error charts and outputs) at each BP along the periphery of the notified forest blocks, in RINEX and native format (8 decimal places in degrees for Latitude and Longitude including height above MSL and HAE in cm) **with area and perimeter.**
- d. The survey shall be performed using **DGPS** in real-time or post-processed mode. However the survey shall be performed using **TS** in GPS shadow areas, and data shall be duly geo-referenced using GCPs collected by dual frequency DGPS receivers.
- e. Field training about the procedure of DGPS survey to all the FBO/FSO/FRO/Sub DFO/DFO

of the concerned division.

- f. Scanning of all the documents within APFD premises including Gazette Notifications and forest block records; and FMBs, maps, village cadastral records etc.
- g. Supply and Erection of Stone Monolith of of size 1.5m*23cm*23cm at each Control Point

Procedure for Survey:

01. DGPS Survey:

- i. The Survey shall be carried **along the notified forest block boundary which is invariably shown by the concerned local forest staff** with reference to the Gazette Notifications and forest block records; and reference may also be made to FMBs, maps, village cadastral records etc to locate the boundaries described in the Gazette Notification.
- ii. The survey should preferably be started from **the first BP** which is well defined (usually the NW corner of the forest block); **follow the boundary description** as given in the notification; fix the **BPs** strictly as per the notification.
- iii. The guidelines framed vide PCCF RC No. 44494/2007/IT-II, dated 12.10.2007 and the GOMs. No. 1049, Rev (AP) Dept, dated 28.07.2007 to implement the recommendations of Land Committee under the Chairmanship of Sri Koneru Ranga Rao, Hon'ble Minister for Municipal Administration & Urban Development can be used as a reference to locate the boundaries in the field, if applicable.
- iv. **Establishment of Base stations (Control Points):**
 - o **Base Stations to be fixed by Multi/Dual frequency DGPS receivers with SOI Control Point as reference** (to be supplied by APFD).
 - o The minimum **observation time** for base station **shall be 12 hours** from nearest SOI control point.
 - o Required number of Control Points shall be established in such a way that the **distance** between the DGPS base station & rover **shall be less than 10 km** (for single frequency DGPS Rovers) and **less than 50 km** (for dual frequency DGPS Rovers).
 - o The panoramic view surrounding the Base Station as well as antenna location showing the terrain in near proximity should be digitally photographed (should be taken in three or four different directions) and monumented.
- v. **Rovers** shall be of **Dual/Multiple frequency DGPS receivers within a radius of 50 km from the base**. In case **Single frequency DGPS receivers** are used they should be used **within 10 km radius only**. Readings of the BPs shall be taken with a minimum observation period of 10 minutes. To differentially correct the DGPS Rover data with base station / control point data.
 - o In case **real-time DGPS** rovers are used, the Dual Frequency DGPS with **OMNISTAR XP/HP connection** shall be used alone and reading taken when **accuracy is within 25 cm**.
- vi. The height above MSL shall also be recorded for location and must be linked to HAE.

02. Total Station Survey

- i. **Follow the procedure** detailed in Para II(01) of RFP. Each BP must be fixed from at least 2 known locations.
- ii. **Geo-reference the data** using GCPs. (GCPs shall be collected using dual frequency DGPS receivers in real-time/ post processed mode as per procedure detailed in II(01)of RFP).
- iii. The accuracy desired is 5 mm/km, and angles to $1^{\circ}/3600^{\circ}$. **The distance** between the Total Station and the target **shall not be more than 500m**.

03. Conditions to be observed for Survey

- i. As far as possible similar DGPS instruments shall be used for collection of GCPs and all DGPS equipment must be set-in to **GCS – WGS84 Datum uniformly**.
- ii. For bigger blocks **variations in magnetic bearings** over a period of time must be taken into account.
- iii. RAW and post-processed DGPS readings along with original source file for each location shall be submitted every week or as soon as the work is completed, whichever is earlier, to the Geomatics Centre, Hyderabad.
- iv. For each forest block a unique ID shall be given. All the features shall be recorded in this ID. All the features will be extracted from this data.
- v. The **attributes** shall be collected as specified by APFD and shall be linked to the corresponding features.

III. Deliverables and time frame:

The project shall be completed within a **period of 6 months** from the date of contract agreement (extendable by a period of 3 months if required). **Final Report** containing the following notified forest block maps and outputs is to be delivered within 6 months from the date of entering into agreement.

- a) Forest Block-wise Survey Report
- b) Forest Block wise scanned copies of complete Notifications (Original proposal consisting of map(s) showing village wise / Survey number wise areas included (wherever available) in the Proposed RF/PF, Area Statement, FMBs, State & District Gazette notifications in Vernacular and English languages, de-notifications, dis-reservations and connected documents etc.) in pdf format and Map/maps in JPG format.
- c) One set of soft copy of Forest Blocks Maps, with area, perimeter and attributes
 - In **e00 format in Geographic Coordinate System - WGS84 datum and Universal Transverse Mercator Projection - WGS84 datum**
 - Forest Block-wise RAW and differentially corrected DGPS readings in RINEX and native format (8 decimal places in degrees for latitude and longitude including height above MSL and HAE in cm)
 - **For Total Stations:** unregistered & geo-referenced maps along with GCPs (RAW & differentially corrected DGPS readings in above format).
- d) One set of hard copy of maps and readings of each location in MSExcel (latitude and longitude in WGS84 datum and height above MSL and HAE in cm) certified by the respective FBO, FSO, FRO, Sub-DFO & DFO, CCFs/CFs of Circles in 1:10000 Scale, **subject to maximum A0 size.**

Sequence of Preparation of Reports and Maps

- i. **Inception report** indicating the method and work schedule shall be submitted within 2 weeks of entering into agreement. Before submission, the consultant shall hold extensive discussions with the respective CCFs/ CFs of Circles and respective DFOs to decide on the method, works schedule, details of attribute data needed and constitution of support teams from APFD as detailed in Para IV. The Firm shall make a presentation on the method and work schedule.
- ii. **Draft Report** along with Surveyed & geo-referenced maps of forest blocks (hard copy and soft copy) containing all information as detailed in Para II & III, shall be submitted within 4 months of acceptance of inception report. (The maps in 1:10000 Scale, subject to maximum A0 size, shall be certified by the respective FBO, FSO, FRO, Sub-DFO and DFO). The

Report along with certified maps shall be delivered to the respective CCF/CF of Circles.

- iii. **Final report** duly incorporating the comments of the respective CCFs/ CFs of Circles shall be delivered within one month of communication of comments on draft report to the Project Steering Committee.

The Final Report submitted by CCF/CF of Circles shall be got approved by the PSC.

IV. Responsibilities of APFD:

- a) APFD shall provide details of notified forest blocks to be surveyed & mapped with all attribute data.
- b) APFD shall coordinate the work with the consultant's team.
 - o The Field Officers (FRO/FSO/FBO/ABO) shall locate and demarcate the notified forest blocks boundaries, with reference to the Gazette Notifications and forest block records; and reference may also be made to FMBs, maps, village cadastral records etc to locate the boundaries described in the Gazette Notification.
- c) The boundaries located by field officers shall be authenticated by the respective Sub-DFOs and DFOs.
- d) Respective Sub-DFOs and DFOs shall provide the revenue maps and facilitate interaction/coordination with the revenue officials.
- e) Respective DFOs shall construct the Pillar at each BP.
- f) On prior request APFD shall provide logistic support like accommodation subject to their availability rates on par with touring forest officers.

Roles of various APFD officers:

S. No.	Designation	Roles
1	ABO/FBO	<ol style="list-style-type: none"> a. Identification of Stations, BPs and boundaries b. Providing local support in carrying out the survey
2	FSO	<ol style="list-style-type: none"> a. Supervise Identification of Stations and boundaries b. 100% of Verification Stations and boundaries c. Providing local support in carrying out the survey
3	FRO	<ol style="list-style-type: none"> a. Construction of pillar at each Survey Station or BP. b. Providing of all attribute data c. Test checking of 50% Stations and boundaries d. Organization of field work and providing the necessary support e. Interaction/Coordination with Revenue, SSLR and other Stakeholders
4	Sub DFO	<ol style="list-style-type: none"> a. Collection of revenue maps. b. Collection of Gazette notifications & maps of all blocks c. Providing all the attribute data d. Test checking of 25% Survey Stations / BPs and boundaries e. In charge officer for the entire work f. Interaction/Coordination with Revenue, SSLR and other Stakeholder agencies
5	DFO	<ol style="list-style-type: none"> a. Collection of revenue maps. b. Collection of Gazette notifications & maps of all blocks. c. Providing all the attribute data d. Test checking of 10% Survey Stations / BPs and boundaries e. Interaction/Coordination with Revenue, SSLR and other Stakeholder agencies f. Overall responsibility in conducting the survey
6	Geomatics Centre	<ol style="list-style-type: none"> a. Assigning unique ID to each notified forest block.

- b. Designing of attributes to be collected.
- c. Technical Evaluation of the data provided by the FIRM as per the specifications.
- d. Joining of the GIS data of block boundaries
- e. Linking of attribute data.

V. Responsibilities of the Firm:

- a) THE FIRM shall deploy sufficient teams along with all logistics and equipment to carry out the Survey and mapping of notified forest blocks as detailed in Para II and deliver the outputs as detailed in Para III.
- b) Each team shall comprise of a Team leader who shall be Specialist in Geomatics, a DGPS operator and/or a TS Operator and sufficient number of supporting surveyors for accomplishing the task.
- c) The Firm shall help the department in ascertaining the locations of the BPs with the help of available records.

Roles of various team members of survey teams

S. No.	Designation	Roles and qualifications
1	Surveyors	<ul style="list-style-type: none"> a. Diploma in Surveying & levelling, civil engineering b. 3 years experience in handling of DGPS, Total Stations and the associated software for downloading & processing of Data.
2	DGPS/TS Operator	<ul style="list-style-type: none"> a. Diploma or B. Tech in civil engineering AMIE or equivalent b. 3 years experience in handling of DGPS, Total Stations and the associated software for downloading & processing of Data.
3	Team Leader	<ul style="list-style-type: none"> a. B. Tech in Civil Water resources, RS, Geo- informatics, GIS, CS, IT, AI, EC, Environmental Sciences or equivalent. b. M.Sc. in Geo Sciences, Physics, Electronics, Mathematics, Statistics, Computer Science, IT, Environmental Sciences or equivalent c. MCA or equivalent. d. 2 years experience in handling of DGPS, Total Stations and the associated software for downloading & processing of Data. e. 2 years experience in the field of Signal / Image Processing / GIS (for B.Tech / MCA / M. Sc) in any Image Processing and GIS Software.
4	Project Leader (to supervise 4-5 teams)	<ul style="list-style-type: none"> a. B. Tech in Civil Water resources, RS, Geo- informatics, GIS, CS, IT, AI, EC, Environmental Sciences or equivalent. b. M.Sc. in Geo Sciences, Physics, Electronics, Mathematics, Statistics, Computer Science, IT, Environmental Sciences or equivalent c. MCA or equivalent. d. 5 years experience in handling of DGPS, Total Stations and the associated software for downloading & processing of Data. e. 5 years experience in the field of Signal / Image Processing / GIS (for B.Tech / MCA / M. Sc) in any Image Processing and GIS Software.

VI. Review:

A State Level **Project Steering Committee** (PSC) will review and monitor the status of the work of the firm, comprising of following officers of APFD:

1. PCCF or PCCF (WL) & CWLW - **Chairman**
2. APCCF (Vigilance)
3. APCCF (CAMPA)
4. APCCF (IT) – **Convener**
5. APCCF i/c of Circles
6. APCCF (GIS)
7. ACF (GIS)
8. ACF(RS)

This committee may co-opt any other person for assisting in reviewing the work of the Consultant Firm. Functioning of the special survey teams as detailed in Para IV & V will be reviewed by the respective CCFs / CFs of Circles along with the DFOs. The Consultant firm may nominate his representative to participate in these reviews or may participate himself. All issues pertaining to coordination and providing support shall be discussed and sorted out during such meetings. The Consultant Firm may bring up any unresolved issue to the notice of state level review committee.

VII. Abbreviations used

ACF - Assistant Conservator of Forests; **APCCF** - Additional Principal Chief Conservator of Forests; **APFD** - Andhra Pradesh Forest Department; **BM** – Bench Mark; **BOQ** – Bill of Quotations; **BP** - Boundary Pillar; **CAMPA** - Compensatory Afforestation Fund Management And Planning Authority; **CCF** - Chief Conservators of Forests; **CF** - Conservators of Forests; **cm** – centimeters; **DCF** - Deputy Conservator of Forests; **DFO** - Divisional Forest Officer; **DGPS** - Differential Global Positioning System; **EMD** – Earnest Money Deposit; **ETS** – Electronic Total Station; **FGH** – Forest Guest House; **FMB** - Field Measurement Book; **FBO** - Forest Beat Officer; **FRO** - Forest Range Officer; **FSO** - Forest Section Officer; **FS** - Forest Settlement; **GCP** - Ground Control Point; **GIS** - Geographical Information Systems; **GSR** – Geomatics Schedule of Rates; **HAE** – Height above ellipsoid; **ISRO** - Indian Space Research Organization; **IT** – Information Technology; **Km** - Square Kilometers; **MIS** - Management Information Systems; **mm** – millimeters; **MSL** – Mean Sea Level; **NASA** - National Aeronautics and Space Administration; **NPV** - Net Present Value; **NRSC** - National Remote Sensing Center; **PAN** – Permanent Account Number; **PCCF** - Principal Chief Conservator of Forests; **PF** - Protected Forest; **RF** - Reserved Forest; **RFP** – Request for Proposal; **SAC** – Space Application Center; **SOI** – Survey of India; **SRSAC** – State Remote Sensing Application Centres; **SSLR** - Survey, Settlement and Land Records; **VAT** – Value Aided Tax; **WGS84** - World Geodetic System 1984

For clarifications the following officers may be contacted (in the O/o The Principal Chief Conservator of Forests, Aranya Bhavan, Saifabad, HYDERABAD)

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Dr HC Mishra, **IFS**, Additional Principal Conservator of Forests (GIS), Room No: 571, Mobile: 094408 15455, e-mail: apccf_gis_apfd@ap.gov.in

Annexure I – Details of Forest Blocks:

Package I - Mancherial Division:

Block Name	Area_Ha	Block Name	Area_Ha	Block Name	Area_Ha
ASNAD	166.63	KANNEPALLY	109.10	RALLY	33,942.73
BALRAOPET	193.35	KUNDARAM	16,972.00	RALLY_EXT1	307.93
BUDDARAM	36.49	KUNDARAM_EXT	128.70	VENKATAPUR_EXT1	73.43
CHENNUR	35,500.45	KUNDARAM_EXT1	64.68	VENKATAPUR_EXT2	16.27
CHENNUR_BEROON	180.41	MALLAMLPET	116.60	VENKATAPUR_EXT3	41.57
CHENNUR_EXT2	652.69	MITTAPALLY	817.42	Yenchapally	12,993.09
ENCLOSURE	11,810.45	PARPALLY	161.66	YENCHAPALLY_EXT2	290.54
INDARAM	6,480.05	PONNARAM	467.12	Total	123,387.79
INDARAM_EXT1	1,153.57	POTTIAL	529.99		
INDARAM_EXT2	180.87				

- **Approximate Length of the Boundary is 1000 km including overlapping boundaries.**
- **Approximate number of Stone monoliths to be supplied and erected: 15**

Package II - Hyderabad Division:

BLOCKNAME	Area in Ha	BLOCKNAME	Area in Ha	BLOCKNAME	Area in Ha
Achitapur	106.69	Jitram	155.36	Nagrampally	285.21
Adikicherla	801.41	Jubilee Hills	171.28	Nagsamunded-ii	224.26
Allapoor	370.11	Juntpally	681.83	Nagulapally	1464.04
Amberpet Kalan	189.61	Kalkhoda	1214.15	Nalvelly	127.44
Ampally	79.99	Kamalpur I	799.03	Nancherla	618.76
Ananthagiri	1233.23	Kamalpur Ii	60.76	Narepally I	123.18
Arutla	147.68	Kandlapally	223.60	Narepally Ii	151.53
Atkur	240.64	Keshavapur	363.75	Narsapur	23.69
Bacharam	58.46	Kiwadpally	304.23	Narskal	1830.22
Bantavaram	362.61	Kondapur	992.08	Nazeerabad Ext	126.96
Barwad	592.59	Kongrakalan	352.36	Nazeerabad I & Ii	198.25
Bhramanpally	211.88	Kongrakhurd	338.42	Pashapur	387.74
Bompally	105.91	Koppankote	67.76	Phulmamedii Iii	44.30
Chided Ii	55.53	Kothaguda	105.37	Phulmamidi	473.03
Chilkur	488.03	Kulkacherla	122.61	Phulmamidi I	432.49
Chintakunta	265.81	Kuntloor	262.92	Polkampally	99.00
Chittapur	356.23	Kurmidda	330.38	Ponnal	128.23
Dabeerpur	185.20	Lalgadimalakpet	1003.99	Porandla	693.13
Dadpally	428.18	Madanaguda	94.99	Purumpally	535.59
Damgundem	644.22	Madanpally	1447.55	Qutubullapur	99.22
Dharur	1068.39	Madhapur	313.52	Rangampally	1225.51
Dornal Ii	712.65	Mailaram I	76.35	Rangapur	119.61
Dundigal	135.77	Mailaram Ii	199.02	Rasnam	2410.01
Edulabad	156.53	Mailwar	1832.03	Regondi Kondapur	604.24
Ekmamidi	738.45	Maisaram	188.77	Rompally	401.69
Eliminedu	780.69	Manchal	396.31	Sahebnagar	23.67
Enclosure	1450.59	Mandhipal	194.54	Salonidubba	418.39
Eppaipally	33.67	Mandpally	118.35	Shamirpet	250.99
Ghat Kondapur	323.05	Mangalpally	214.96	Sirigiripur	222.50
Gingurthy	3190.09	Maniyamkancha	49.65	Sirmanthaguda	477.37
Girgutpally	448.78	Mannurabad	950.61	Sulthanpur	203.70
Gotga	206.59	Medpally	94.48	Tadlapallyguda	182.13

Gotpally	239.25	Mittakodur	634.03	Tatparthy	1293.12
Gummedvelly	1160.93	Moh'bad	8507.79	Tattepally I	277.39
Gungal	1305.19	Morechintampally	312.11	Timmalur	146.32
Guttlakancha	57.62	Mothukpally	517.84	Timmaipally	123.19
Hafeezpur	859.80	Mothupally	651.71	Tippapur	174.42
Hayathnagar	294.93	Mujahidpur Ii	317.37	Tirmalapur	333.02
Ibrahimpattanam	404.15	Mujahidpur Iii	272.48	Toomkunta	371.71
Ibrahimpur I	238.43	Munnur Somaram	631.18	Turkayamjal	38.95
Ibrahimpur Ii	463.61	Naganapally	56.87	Turmamidi	162.20
Imarath Kancha	1797.97	Nagaram	481.48	Yadgarpally I	291.53
Indole	205.78	Nagasamundar I	715.08	Yadgarpally Ii	98.64
Jaffarpally	119.81	Nagasmunder	559.98	Yapal	123.83
Japal	665.34			Total	69401.43

- **Approximate Length of the Boundary is 1600 km including overlapping boundaries.**
- **Approximate number of Stone monoliths to be supplied and erected: 30**

Package III - Bhadrachalam North Division:

Block Name	Area_Ha	Block Name	Area_Ha	Block Name	Area_Ha
ALABAKA BIT I	39.86	KOMMANAPALLI	867.60	PEESUGUPPA	71.14
ALAKABAKA BIT	499.97	KOPSURU	435.16	PERURU	9,200.94
ARLAGUDEM	3,661.46	KRISHNAPURAM	253.55	PERURU EXT II	417.68
ARLAGUDEM EXT	217.23	MADHAVARAOPET	2,419.84	PERURU R.F.	666.85
ARUNACHALAPUR	66.49	MAHITAPURAM	11.68	PRAFALLAPALLI	965.29
BANDIREVU	936.49	MUGURU	7.50	PRAGALLAPALLI	167.14
BHADRACHALAM	2,959.06	MULAKANAPALLI	4,780.61	RAMAGOLAPURAM	410.29
CHEEKUPALLI	7,810.15	NGURU EXT II	6,241.43	SUBBAMAPETA	8.10
CHERLA	10,458.41	NODATA	944.30	SURAVEEDU	5,579.20
CHERLA BIT II	321.46	NUGUR EXT III	173.56	TUNIKICHERUVU	3,606.81
CHINTALACHERU	752.70	NUGURU	19,950.41	VEERABHADRARARA	1,161.74
DUMMUGUDEM	10,383.34	PALAMADUGU	322.92	VENKATAPURAM	10,534.68
FERGUSONPETA	372.89	PALAMADUGU EX	580.00	VISSAPURAM	586.65
GOGUBAKA	278.06	PATTUCHEERA	620.20	YEKANNAGUDEM	1,930.50
GOLLAGUPPA	3,543.57	PAVANUR	197.57	Total	124,633.28
GOLLAGUPPA EX	247.18	PEDAMIDISILER	8,971.62		

- **Approximate Length of the Boundary is 800 km including overlapping boundaries.**
- **Approximate number of Stone monoliths to be supplied and erected: 15**

Package IV - Kurnool Division:

Block Name	Area_Ha	Block Name	Area_Ha	Block Name	Area_Ha
ADONI_EAST	714.42	KAPPATRALLA	1,248.98	PENDEKAL	1,039.28
ADONI_WEST	1,315.39	KARUMANCHI	563.34	PUPLLAIAHPARK	61.31
BETHAMCHERLA	4,377.34	KATARUKONDA	1,099.99	RAMALLAKOTA_EXTN	771.23
DEVAGUDIPADU	658.12	KOTEKAL	774.06	RAMATEERTHAM	294.05
EDDUPENTA	737.12	KOTHABURJU	278.91	RAMATEERTHAM_EXTN	501.71
ERRAGUDI	1,457.40	KUPPAGAL	1,098.67	RAMATEERTHAM_EXTN_III	68.47
GADIDAMADUGU_RF	1,836.75	LANJABANDA	2,850.10	RAMATHEERTHAM_EXTN_II	789.62
GADIDAMADUGU	326.48	MADHAVARAM	2,346.97	RAMATHEERTHAM-EXTN	1,054.75
GANEKALLU	303.58	METTUPALLI	739.00	RAMAVARAM_EXTN_I	483.27
GANI	16,334.57	MUDDATAMAGI	93.16	RAMAVARAM	607.22
GULAMALIABAD_NORTH_BLOCK	4,399.87	NALLAMEKALAPALLI	261.56	RANGAPURAM	1,927.32
GULAMALIABAD_SOUTH_BLOCK	3,431.79	NERNIKI_WEST	4,283.24	RTAMMALAKOTA	1,155.88

GULYAM	313.66	NODATA	6,327.02	SOUTH_DHONE	2,938.46
GUNDLAKONDA	1,719.11	NORTH_DHONE	5,616.12	SULUKERI	184.24
HOLAGUNDI	307.59	NOWLIKAL	240.09	TEKULAKONDA	754.09
ISVI	351.17	ODDEPALLI	159.61	TUGGALI	736.58
JALADURGAM_ADDITION_II	33.98	OWK	13,000.88	TUNGABHADRA	645.81
JALADURGAM_EXTN_I	3,310.28	PANYAM	9,289.68	VELDURTHI	293.84
JALADURGAM	7,842.93	PATHIKONDA	1,283.91	YAMBAI	1,159.26
JANGAMARAHOSALLI	36.53	PEAPULLY	2,352.49	YAPARLAPADU	2,820.07
KAMALAPURAM	691.81	PEDDAPAYA	993.17	Total	123,882.06
KANCHEGARI-BELEHAL	194.76				

- **Approximate Length of the Boundary is 2000 km including overlapping boundaries.**
- **Approximate number of Stone monoliths to be supplied and erected: 30**

Package V - Guntur Division:

Block Name	Area_Ha	Block Name	Area_Ha	Block Name	Area_Ha
ADVULADEEVI	207.01	KAKIRALA BLOCK-1 &E	92.70	NAIDUPALEM BLOCK-1	518.87
ADVULADEEVI BIT-1	475.61	KAKIRALA BLOCK-1 &EX	119.28	NAIDUPALEM BLOCK-2	16.27
ADVULADEEVI BIT-2	176.20	KAKIRALA EX-1	71.03	NARSAIAHPALEM	642.00
ADVULADEEVI EX-1	63.63	KAKIRALA EX-2	583.35	NEKARIKALLU	837.35
ANDUGULAPADU	760.19	KAKIRALA EX-4	491.24	NEMALIPURI	4,010.69
BAPATLA EAST	0.59	KAKIRALA EX-6	801.16	NIDUMUKKALA	229.45
BELLAMKONDA	487.98	KAKIRALA-EX-3	571.63	NIZAMPATNAM	1,701.92
BOLLAPALLI	16,693.31	KAMEPALLI	434.41	NODATA	6.32
BOLLAPALLI EX-1	1,766.59	KANDIPADU	189.31	PALUVAYE	156.82
BOLLAPALLI EX-2	2,098.29	KANDLAGUNTA	10,018.05	PAMIDIPADU	601.52
BOLLAPALLI EX-3	134.89	KANDLAGUNTA EX-1	5,214.81	PASUVEMULA	3,453.80
BOLLAPALLI EX-4	281.02	KANDLAGUNTA EX-2	230.71	PASUVEMULA BLOCK-3	168.31
BOLLAPALLI EX-5	212.88	KARLAPALEM	83.44	PASUVEMULA EX-1	116.20
BOLLAPALLI EX-6	385.21	KARLAPUDI	358.73	PASUVEMULA EX-4	576.29
BOLLAPALLI EX-7	174.91	KONANKI	1,657.86	PEDAMADDURU	123.67
BOLLAPALLI EX-8	280.75	KONANKI EX-2	363.84	PILLUTLA	914.04
BOLLAPALLI EX-9	349.80	KONDAVEDU EX-1	213.87	POTHUMERAKA	1,879.38
BOLLAPALLI RF	759.56	KONDAVEDU EX-2	111.93	PUTCHANUTHALA	331.62
BOLLAPALLY EX-2	155.94	KONDAVEEDU	5,288.03	RAMUDU PALEM	202.77
DAIDA	1,309.17	KONDLAGUNTA	2,254.53	REGULAGADDA	1,307.78
DAMARAPADU	380.31	KOPPUKONDA	1,982.28	TADEPALLI	672.26
DINDI	50.13	KOPPUKONDA EX-1	1,252.80	TADEPALLI EX-1	5.44
DINDI COAST	12.84	KOTAPPAKONDABLOCK-1	200.69	TANGEDA	355.19
ENCLOSURE	4,675.58	KOTAPPAKONDABLOCK-2	421.27	TANGEDA EX-1	163.95
GAMALAPADU	233.91	KOTHAPALEM BLOCK-1	1,043.17	TANGEDA EX-2	196.22
GANGALAGUNTA	7,727.62	KOTHAPALEM BLOCK-2	537.71	TUMURUKOTA BLOCK-3	1,679.37
GANGALAGUTTA ADD-1	1.96	KOTHAPALEM EX-1	576.07	TUMURUKOTA BLOCK-4	794.22
GANGALAGUTTA ADD-2	10.24	KOTTAPALEM BLOCK-1	624.18	VELDURTHI	1,454.09
GANGALAGUTTA ADD-3	3.07	KOTTAPALEM EX-1	580.62	VEMAVARAM	472.77
GINGUPALLI	210.34	KUNTIMADDI	295.05	VEMAVARAM EX-1	144.59
GOKANAKONDA	134.06	LANKAVANI DIBBA	3,647.34	VENKATAYAPALEM	14,305.15
GOLI	369.18	MADINAPADU	4,183.67	VENKATAYAPALEM EX-1	804.13
GOVINDAPURAM	317.47	MADINAPADU EX-1	383.05	VENKATAYAPALEM EX-10	691.93
GUTHIKONDA EX-1	53.79	MADINAPADU EX-2	203.78	VENKATAYAPALEM EX-11	119.46
GUTHIKONDA EX-10	82.84	MADUGULA	665.60	VENKATAYAPALEM EX-2	886.09

GUTHIKONDA EX-6	399.62	MANDADI BLOCK-1	607.61	VENKATAYAPALEM EX-3	532.34
GUTTIKONDA BL2 ,EX10	878.71	MANDADI BLOCK-2	443.18	VENKATAYAPALEM EX-4	244.72
GUTTIKONDA BL-2,EX10	69.38	MEKAPADU	450.11	VENKATAYAPALEM EX-5	1,526.35
GUTTIKONDA BLOCK-1	8,221.95	MOTHADAKA	124.37	VENKATAYAPALEM EX-6	368.35
GUTTIKONDA BLOCK-2	7,069.26	MUPPALLA	1,140.06	VENKATAYAPALEM EX-7	338.88
GUTTIKONDA EX-3	346.98	MUTHAYAPALEM	3,289.18	VENKATAYAPALEM EX-8	805.26
GUTTIKONDA EX-4	290.96	MUTHAYAPALEM EX1	306.70	VENKATAYAPALEM EX-9	174.93
GUTTIKONDA EX-7	717.05	MUTUKURU	18,900.35	VINUKONDA PARCIL(76)	1,442.64
GUTTIKONDA EX-8	123.85	MUTUKURU EX-2	280.31	VINUKONDA PARCIL(77)	1,307.82
JANAPADU	1,098.65	MUTUKURU EX-3	367.84	Total	187,126.46
KAKIRALA BLOCK 2	1,501.58	MUTUKURU EX-4	837.15		
KAKIRALA BLOCK EX-1	1,585.97	MUTUKURU EX-5	850.42		
KAKIRALA BLOCK-1	3,115.76	NAIDUPALEM	44.18		

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- **Approximate number of Stone monoliths to be supplied and erected: 30**