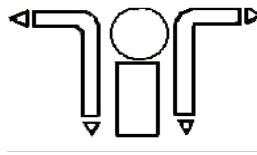




Govt. of MP
Department of Science & Technology

Request for Proposal

FOR
SUPPLYING OF STANDARD & PROFESSIONAL SURVEY GRADE UNMANNED AERIAL
VEHICLE/ DRONE FOR LARGE SCALE MAPPING



MAP_IT
Madhya Pradesh Agency for Promotion of Information Technology
State IT Centre, 47-A, Arera Hills, Bhopal

Ph: 07552518300; Fax: 07552769824;
Email: map_it@mp.nic.in; URL: www.mapit.gov.in

June 2020

Version: 1.0

DISCLAIMER

All information contained in this Request for Proposals (RFP) provided/ clarified are in the good interest and faith. This is not an agreement and this is not an offer or invitation to enter into an agreement of any kind with any party.

Though adequate care has been taken in the presentation of this RFP document, the interested firms shall satisfy it-self that the document is complete in all respects. The information published in this document is not intended to be exhaustive. Interested Bidders are required to make their own enquiries and assumptions wherever required.

Intimation of discrepancy, if any, should be given to the specified office immediately. If no intimation is received by this office by the date mentioned in the document, it shall be deemed that the RFP document is complete in all respects and firms submitting their bids are satisfied that the RFP document is complete in all respects.

Madhya Pradesh Agency for Promotion of Information Technology (A society under Department of Science & Technology, Government of Madhya Pradesh) reserves the right to reject any or all of the applications submitted in response to this RFP document at any stage without assigning any reasons whatsoever. Madhya Pradesh Agency for Promotion of Information Technology also reserves right to withhold or withdraw the process at any stage with intimation to all who have submitted their bids in response to this RFP. Madhya Pradesh Agency for Promotion of Information Technology reserves the right to change/ modify/ amend any or all of the provisions of this RFP document without assigning any reason. Any such change would be communicated to the bidders by posting it on Madhya Pradesh e-Procurement Portal www.mptenders.gov.in.

Neither Madhya Pradesh Agency for Promotion of Information Technology nor their employees and associates will have any liability to any prospective Respondent interested to apply or any other person under the law of contract to the principles or resolution or unjust enrichment or otherwise for any loss, expense or damage which may raise from or be incurred or suffered in connection with anything contained in this RFP document, any matter deemed to form part of this RFP document, the award of the Assignment, the information and any other information supplied by or on behalf of Madhya Pradesh Agency for Promotion of Information Technology or their employees and Prime applicant (PA)/ Consortiums or otherwise arising in any way from the selection process for the Assignment.

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

Table of Contents

PROFILE & BACKGROUND INFORMATION	7
1. Introduction:	7
2. About the MAP_IT:.....	7
3. Background:	7
4. Availability of Tender Document.....	8
5. Earnest Money Deposit (EMD).....	8
6. Performance Security	8
7. Working Language:.....	9
8. Period of Contract:	9
9. Brief Details & Critical Dates of Tender:.....	10
9.1 Brief Details of Tender:	10
9.2 Important Dates of Tender:	10
10. Notice Inviting Tender	12
11. Two Bid System	12
12. Pre-bid queries and clarifications.....	12
13. Eligibility Criteria for Bidders:.....	13
14. Earnest Money Deposit.....	15
15. Instruction to Bidders regarding submission of Technical Bid	15
16. Instruction to Bidders regarding submission of Financial Bid	16
17. Performance Bank Guarantee.....	16
18. Validity of Bids.....	16
19. Bid evaluation.....	16
20. Technical Eligibility	17
21. Evaluation of Financial Bids.....	18
22. Award of Contract	19
23. Penalty for delayed Supply of Drone/UAV.....	19
24. Penalty for delayed Services- During maintenance period.....	19
25. Schedule of Quantities & Prices	19
Description of the Supply:.....	19
26. PRICE SCHEDULE & TERMS OF PAYMENTS	19
27.1 Terms of Payments.....	20
27.2 Mode of Payments	20
27. Purchaser's Rights	20
28. Genuineness of Supplied Drone/UAV	20
29. Cancellation of procurement process	21

30.	Dispute Resolution	21
31.	Correction of Arithmetic Errors in Financial Bids	21
32.	Exclusion of Bids/ Disqualification	22
33.	*Warranty-	22
	ANNEXURE: I (a).....	23
	Indicative Specifications of Drone/UAV to be supplied to MAP_IT (Professional Grade).....	23
	ANNEXURE: I (b).....	26
	Indicative Specifications of Drone/UAV to be supplied to MAP_IT (Standard Grade).....	26
	ANNEXURE-II	29
	DOCUMENT TO BE SUBMITTED FOR TECHNICAL BID	29
	ANNEXURE-III.....	30
	DECLARATION FOR NOT BEING BLACKLISTED	30
	ANNEXURE-IV (a)	31
	COMPLIANCE TO SPECIFICATIONS OF PROFESSIONL GRADE UAV AS LAID IN TENDER	31
	ANNEXURE-IV (b).....	34
	COMPLIANCE TO SPECIFICATIONS OF STANDARD GRADE UAV AS LAID IN TENDER	34
	ANNEXURE-V	37
	FORMAT FOR SUBMISSION OF FINANCIAL BID.....	37
	ANNEXURE-VI	38
	PRE-PROPOSALS QUERIES FORMAT	38
	ANNEXURE-VII	39
	COVERING LETTER	39
	ANNEXURE-VIII	40
	QUALIFICATION OF THE BIDDER.....	40
	ANNEXURE-IX	41
	FINANCIAL BID COVER LETTER & FORMAT	41
	ANNEXURE-X	42
	SELF-DECLARATION	42
	ANNEXURE-XI	43
	AUTHORIZED DEALERSHIP CERTIFICATE FROM THE MANUFACTURER	43



मैप आईटी.

Madhya Pradesh Agency for Promotion of Information Technology

State IT Centre, A-47, Arera Hills, Bhopal (0755)-2518702

“RFP for Supplying Of Professional & Standard Survey Grade Unmanned Aerial Vehicle/Drone for Large Scale Mapping”

क्रमांक: मैप आईटी/2020/...

MAP_IT invites Proposals from qualified and experienced suppliers for “supplying of professional & standard survey grade Unmanned Aerial Vehicle/Drone for large scale mapping” to MAP_IT.

Interested Bidders, who qualify as per the criteria mentioned in the document, may submit their proposals through e-tendering latest by 28 June 2020 till 3:30 P.M. on e-Procurement portal (www.mptenders.gov.in). Bidder has to submit the document fee of Rs. 1000/- (Rupees One Thousand only) for RFP document along with e-Procurement Processing fees through online payment at e-Procurement portal.

The detailed RFP document can be downloaded from the website www.mptenders.gov.in and www.mapit.gov.in.

In future, all the information/notice will be display on website www.mapit.gov.in.

Chief Executive Officer

Abbreviations & Definitions

Authorised Signatory	The proposer's representative/ officer vested (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement. Also called signing officer/ authority having the Power of Attorney (PoA) from the competent authority of the respective firm.
Proposal	A formal offer made in pursuance of an invitation by a procuring entity and includes any tender, proposal or quotation
Proposals Security	A security provided to the MAP_IT by a proposer for securing the fulfilment of any obligation in terms of the provisions of the RFP documents.
Proposer	Any person/ firm/ agency/ company/ contractor/ supplier/ Agency participating in the procurement/ RFP process with the procurement entity
RFP Document	Documents issued by the MAP_IT, including any amendments thereto, that set out the terms and conditions of the given procurement and includes the invitation to Proposals
CMC	Contract Monitoring Committee
Competent Authority	An authority or officer to whom the relevant administrative or financial powers have been delegated for taking decision in a matter relating to procurement. Additional CEO, MAP_IT in this RFP document.
Contract/ procurement Contract	A contract entered into between the MAP_IT and a successful proposer concerning the subject matter of procurement
GoI/ GoMP	Govt. of India/ Govt. of Madhya Pradesh
Day	A calendar day as per GoMP/ GoI.
INR	Indian Rupee
IT	Information Technology
NIT	Notice Inviting Tender
Notification	A notification published in the Official Gazette
PAN	Permanent Account Number
PC	Procurement/ Purchase Committee
UAV/UAS	Unmanned Aerial Vehicle / Unmanned Aircraft System
RTK	Real Time Kinematic
Procurement Process	The process of procurement extending from the issue of invitation to Proposals till the award of the procurement contract or cancellation of the procurement process, as the case may be
Project Site	Wherever applicable, means the designated place or places
MAP_IT	Madhya Pradesh Agency for Promotion of Information & Technology
Services	Any subject matter of procurement other than goods or works and includes physical, maintenance, professional, intellectual, consultancy and advisory services or any service classified or declared as such by a MAP_IT and does not include appointment of any person made by any MAP_IT
State Government	Government of Madhya Pradesh (GoMP)
Subject Matter of procurement	Any item of procurement whether in the form of goods, services or works
WO/ PO	Work Order/ Purchase Order

PROFILE & BACKGROUND INFORMATION

1. Introduction:

An unmanned aerial vehicle (UAV) is defined as “an aircraft and its associated elements, which is operated with no pilot on board”. UAVs or drones have been widely used in several areas including agriculture and forestry, electrical power supply, geographical mapping, environmental monitoring and film shooting. Commercial use of UAVs was first recorded in the early 1980s in Japan, where they were used to spray pesticides on rice fields. Since then, drone technology has advanced significantly and provided new applications for all major industries. Drones have effectively disrupted business and operating models in key sectors including agriculture, urban development, traffic management, disaster management, forest and wildlife, healthcare, security and mining. They have empowered organizations and enabled them to capture real-time, highly accurate data, and that too in the most cost-effective manner.

2. About the MAP_IT:

Madhya Pradesh Agency for Promotion of Information Technology (here-in-after referred to as MAP_IT) is a government society which has been established to propel the growth of Information Technology (IT) and e-Governance in Madhya Pradesh and to provide institutional setup for implementation of National e-governance Plan. Established in 1999, MAP_IT provides policy and institutional framework, strategic and project consulting, technical support and capacity building assistance to the government departments and facilitate Human Resource Development activities in the field of IT and e Governance.

Office of the MAP_IT is situated at the 2nd Floor, State IT Centre, 47-A, Arera Hills, Bhopal.

3. Background:

MAP_IT is promoting various IT/e-governance projects across the state of Madhya Pradesh. Implementation of MPSSDI (Madhya Pradesh State Spatial Data Infrastructure) is one of the major goals of the State's IT Centre.

UAV technology has rapidly evolved and is touching multiple areas. Being remotely piloted, UAV's can perform tasks that manned systems cannot perform, either for safety or for economic reasons. These are:

- Remote Sensing & Mapping: excellent for mapping medium sized areas which are too small for aerial survey but too large for manual survey. Also useful for areas with difficult access
- Defense & Internal Security: Ability to monitor large crowds remotely. Also useful for thermal monitoring of areas with difficult access like forest etc.
- Power line monitoring: Monitoring of long corridors of power lines / Roads / Rails
- Natural disaster monitoring: Monitoring of sites with Natural disaster for relief operations

In order to carry out better planning & execution and to reduce the leakages in the system, usage of "Drone" may provide a technical support. To list a few use cases wherein Drone Mapping can be utilized are Crop Damage Assessment, 3D modelling & street view for Industrial areas, 3D city, Master Plan Creation for Towns, Route Alignments & land acquisitions in NHAI or other Roads, Land record

digitization in urban areas. MAP_IT has also conducted few PoC projects for Drone Mapping of Infrastructure Projects, Roads, and Industrial Area and there seems to be a need to expand the utilization of Drone Mapping to fulfil demand from various State Government Departments. With the intent to fulfil this need, MAP_IT intends to Procurement of Standard Survey Grade Unmanned Aerial Vehicle/ Drone from reputed suppliers.

4. Availability of Tender Document

The Tender document is available and downloadable on following websites:

- a) www.mptenders.gov.in
- b) <http://www.mapit.gov.in>

Tender Fees Rs.1000/- (Rupees One Thousand only) non-transferable & non-refundable must be paid online at e- procurement portal (www.mptenders.gov.in).

5. Earnest Money Deposit (EMD)

- 1) The bidder shall submit Earnest Money Deposit (EMD) of INR **50,000/-** (INR Fifty Thousands Only), which shall be deposited online during the submission of the tender on e-Procurement portal.
- 2)
- 3) Unsuccessful bidder's EMD will be released as promptly as possible, but not later than 120 days after the award of the contract to the successful bidder.
- 4) The successful bidder's EMD will be released upon submission of Performance Bank Guarantee.
- 5) The EMD may be forfeited in following cases:
 - 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 it fails within the specified time limit to sign the Agreement
- 6) The tender fee and EMD shall be exempted for bidders having a valid certification of registration under single point registration scheme by NSIC for exemption.

6. Performance Security

- 1) Performance security shall be deemed to be an amount equal to 10% of the contract value.
- 2) The selected proposer will furnish a Bank Guarantee in the form of BG/DD/Pay Order substantially in the specified form by scheduled Banks as performance security towards this contract.
- 3) The Successful proposer shall at his own expense, deposit with MAP_IT, within fifteen (15) working days of the date of notice of award of the contract or prior to signing of the contract, whichever is earlier, an unconditional and irrevocable Performance Bank Guarantee (PBG) from a Scheduled Bank acceptable to MAP_IT, payable on demand, for the due performance and fulfillment of the contract by the selected proposer.
- 4) All charges whatsoever such as premium, commission, etc. with respect to the Performance Bank Guarantee shall be borne by the selected proposer.
- 5) The performance bank guarantee shall be valid till the Expiry of Agreement plus Three months, subject to annual renewals.
- 6) The Performance Bank Guarantee may be discharged/ returned by MAP_IT upon being satisfied

that there has been due performance of the obligations of the selected proposer under the contract. However, no interest shall be payable on the Performance Bank Guarantee.

- 7) In the event of the selected proposer being unable to service the contract for whatever reason, MAP_IT would evoke the PBG. Notwithstanding and without prejudice to any rights whatsoever of MAP_IT under the Contract in the matter, the proceeds of the PBG shall be payable to MAP_IT as compensation for any loss resulting from the selected proposer's failure to complete its obligations under the Contract. MAP_IT shall notify the selected proposer in writing of the exercise of its right to receive such compensation within 14 days, indicating the contractual obligation(s) for which the selected proposer is in default.
- 8) MAP_IT shall also be entitled to make recoveries from the selected proposer's bills, performance bank guarantee, or from any other amount due to him, the equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction or misstatement.

7. Working Language:

Selected proposer shall deliver all documents in English language only. Content of the applications will be English. The application should have the bilingual interface, i.e. it should present the contents in Hindi and English language.

8. Period of Contract:

Period of Contract will be signed with the selected proposer initially for a period of 01 (One) year including Pre-Demo, Supplying of Drone/UAV, Testing followed by Maintenance Phase-II of 03 years duration. Contract period may be extended if MAP_IT decides on contract extension. (After Completion of the initial one Year Period of Contract and depending on the need MAP IT may or may not award the additional 'Maintenance Phase II' of 03 years duration to the selected Bidder.)

9. Brief Details & Critical Dates of Tender:

9.1 Brief Details of Tender:

S. No.	Item	Description
(i)	Name of work	Procurement of two Drone/UAV (a) 1 (One) number of Standard Survey Grade UAV/Drone for Large scale mapping. (b) 1 (One) number of Professional Survey Grade UAV/Drone with replaceable payload for large scale mapping.
(ii)	Tender specification no	MAP_IT/GIS/2020-Drone/.. Dated: 08 th June, 2020
(iii)	Mode of tendering	e-Tendering system (Open Tender)
(iv)	Tender ID	MAP_IT/GIS/2020-Drone/..
(v)	Cost of Tender document	The interested bidders will have to deposit the amount of 1000/- (non-refundable) towards tender fee through (www.mptenders.gov.in).
(vi)	EMD (Bid Security)	INR 50,000/- payable online through www.mptenders.gov.in
(vii)	Completion Period / Schedule	Within 6 weeks from the issue of supply order.
(viii)	Required validity of Bid	180 days from the date of award of contract.
(ix)	Tender Inviting Authority	Additional Chief Executive Officer, Madhya Pradesh Agency for Promotion of IT, 47A Arera Hills, Bhopal – 462011

9.2 Important Dates of Tender:

S. No.	Particulars	Date & Time
(i)	Publish/Upload date and time	08 June 2020 at 02:00 PM
(ii)	Sale / Document Download Start Date & Time	08 June 2020 onwards 03:30 PM
(iii)	Sale / Document Download End Date & Time	29 June 2020 till 03:30 PM
(iv)	Pre bid conference date and location	15 June 2020 at 03:30 PM (Online meeting through video conferencing if required)
(v)	Online Bid Submission Start Date & Time	09 June 2020 onwards 03:30 PM
(vi)	Online Bid Submission Last Date & Time	29 June 2020 onwards 3:30 PM
(vii)	Date and time for opening online Technical bid	30 June 2020 at 03:30 PM
(viii)	Date and time for opening online Financial bid	To be communicated to the technically qualified bidders later on.

Note:

- 1) MAP_IT reserves the complete right to change any schedule of bidding process. Please visit website www.mptenders.gov.in mentioned in document regularly for the same.
- 2) Proposals must be received not later than time, date and venue as mentioned in the Brief Details & Critical Dates of Tender. Proposal that are received after the deadline WILL NOT be considered in this procurement process.
- 3) The mode of submission of bid is only online through e-procurement portal (www.mptenders.gov.in). No physical submission of the bids shall be entertained.
- 4) Any future Corrigenda/Information shall be posted on our website <http://www.mptenders.gov.in> only.
- 5) Rejected / disqualified bidders would only be intimated post final selection of successful bidder / completion of bid process. Along with such intimation, EMD returning process would be initiated for disqualified bidders and the same would be affected within 30 days of issuing letter of intent to successful bidder.

10. Notice Inviting Tender

Bids are hereby invited for supply of **Two (2) Nos. of Drone/UAV viz. Professional & Standard survey grade along with Three years of Onsite Warranty of supplied Drones** from OEM authorized / Supplier/ dealer/ distributor. The indicative specifications of Drone/UAV to be supplied is arranged at [Annexure I \(a\)](#) and [Annexure I \(b\)](#)

11. Two Bid System

Two bid system (**Technical and Financial**) shall be followed for this tender.

- i. Bidder shall submit offer separately for technical and financial
- ii. The link for the bids shall be closed before 28 June 2020 till 3:30 PM.
- iii. The bids submitted through e-tender portal only.
- iv. Tenders received after the closing date and time prescribed in the tender notice, shall NOT be accepted under any circumstances.
- v. The technical bid shall be open at 3.30 PM on 29 June 2020, in MAP_IT, State IT Center, Bhopal in presence of the authorized representatives of the companies, who may wish to attend;
- vi. After scrutiny of technical bids, MAP_IT shall shortlist the eligible bidders and inform them of the date and time of opening of the Financial Bids;
- vii. In case the date of opening of tender is declared a holiday for unexpected reasons, the tender shall be opened same time on the next working day;
- viii. The bidders may send their representatives with authorization letter to attend opening of bids;

12. Pre-bid queries and clarifications

Refer the pre-bid queries and clarifications can be sent in prescribed format as per [Annexure-VI](#) over email to sgoyal@mapit.gov.in and patel.anoop@mapit.gov.in with copy to aceo@mapit.gov.in latest by 3:30 pm on 15 June 2020.

13. Eligibility Criteria for Bidders:

S No	Basic Requirement	Specific Requirements	Documents Required
1.	Legal Entity	The Bidder should have a legal entity registered in India	<ul style="list-style-type: none"> • Copy of Certificate of Incorporation /Registration under Companies Act, 1956/2013.
2.	Turnover	The bidder shall have a turnover of minimum INR. 50,000,00/- (INR. Fifty lac only) from the sale and supply of Drone/UAV in any one of the previous two financial years for 2017-18 or 2018-19.	<ul style="list-style-type: none"> • Audited and Certified Balance Sheet and Profit/Loss Account for the last 2 (Two) Financial Years. • Certificate from the Statutory Auditor/CA on turnover details from the “business areas” over the last 2 (Two) audited financial years (2017-18 and 2018-19)
3.	Net Worth	The Bidders should have positive net worth as per the audited consolidated financial statements in each of the last 2 (Two) financial years (2017-18 and 2018-19).	Certificate from the Statutory Auditor on net worth.
4.	Blacklisting	As on date of submission of the proposal, the Bidders shall not be under a declaration of ineligibility for corrupt or fraudulent practices or Blacklisted with any of the State government/ Central Government / semi government / PSU / Municipal agencies in India at the time of	Undertaking by the authorized signatory as per the format given as Annexure III
5.	Experience	The Bidders should have successfully completed at least Two projects of supplying of Drone/UAV of the higher or equal technical specification in last 2 (Two) years.	Copy of work order + Completion Certificates from the client followed by undertaking as per the format given as Annexure-VIII

Bids of those Bidders who have not submitted the requisite Cost of bidding document and EMD (as per Instructions to Bidders (ITB)) shall not be considered for evaluation.

I. The bidders must fulfil the following minimum Qualifying Criteria:-

- i. Authorized dealer of a manufacturer of the equipment/ system configuration in compliance with the DGCA guidelines published vide no F.NO-05-13/2014-AED VOL.IV Dated 27.08.2018 to quote on behalf of their manufacturer. In case manufacturer does not quote directly, the authorized dealer shall have to submit relevant Authorized Dealership certificate from the manufacturer (as per the prescribed format in [Annexure-XI](#)).
- ii. In case a dealer is participating in a tender on behalf of one manufacturer, he/she is

- not allowed to participate/ quote on behalf of another manufacturer in this tender or in a parallel tender for the same item. All such bids with same make/ manufacture will be rejected
- iii. Bidder must produce with their Bid – PAN, Goods & Services Tax Identification No. (GSTIN).
 - iv. The reference date for considering the period for eligibility / qualification requirements above shall be the last day of the month previous to the one in which tenders are invited.
 - v. Indian manufacturers should be registered with company of Law Affairs under Company's Act.
 - vi. Indian Agents representing Foreign Principals should fulfil the provisions of Rule 152 of GFR, 2017.
 - vii. ISO Certification – The Company offering Professional & Standard Survey Grade UAV/Drone for Large-scale mapping should be an ISO Certified Company with Certified Service Centers in India for after sale support.
 - viii. Firm/Supplier will provide requisite input as per DGCA policy guidelines for obtaining UIN by MAP_IT.
 - ix. The equipment supplied should qualify EMI/EMC test.
 - x. All Goods and Services supplied under the Contract shall have their origin in the member countries and territories eligible under the rules. For purpose of this clause, “origin” means the place where the goods are made, grown or produced, or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from the components. The origin of Goods and Services is distinct from the nationality of the supplier.
 - xi. MAP_IT reserves the right to reject any or all tenders and shall not be bound to assign any reason for such rejection.

ACEO, MAP_IT,

State IT Centre, 47A Arera Hills Bhopal – 462011

Phone No.: +91-755-2518402

E-mail: aceo.mapit@mapit.gov.in

14. Earnest Money Deposit

- a. The bidder shall furnish a bid security (EMD) of **Rs. 50,000/- (Rs. Fifty thousand only)**.
- b. The Bid Security (EMD) shall be in Indian Rupees (INR) and shall be in form Demand Draft/ Bank Guarantee, issued by a Scheduled / Nationalized Bank in India, in favor of 'MAP_IT Bhopal' payable at Bhopal.
- c. The EMD shall be valid for at least 180 (one eighty) days from the date of submission of proposal. No interest shall be payable on Bid Security under any circumstances.
- d. Unsuccessful Bidder's Bid security shall be discharged or returned within 60 (sixty) days of expiration of the period of proposal validity prescribed by the Tenderer or after awarding tender to successful Bidder.
- e. The successful Bidder's EMD shall be discharged upon submission of Performance Bank Guarantee (PBG) by the Bidder.
- f. The Bid security will be forfeited at the discretion of Tenderer on account of one or more of the following reasons-
 - i. The Bidder withdraws its Proposal during the period of proposal validity.
 - ii. Bidder does not respond to requests for clarification of its proposal.
 - iii. The Bidder fails to deliver the goods within the stipulated time as mention in this tender.
 - iv. In case of a successful Bidder, the said Bidder fails-to submit the PBG within stipulated time.
 - v. Failure to furnish all information by bidder required as per the RFP documents or submission of a proposal not substantially responsive to the RFP documents in every respect.

15. Instruction to Bidders regarding submission of Technical Bid

The Technical Proposal should contain the following information:

- i. Technical Bid proposal form has to be submitted along with self-attested copies of required documents with the seal as per the format and documents specified at '[Annexure II](#)' in the tender document;
- ii. Qualification of Bidder as detailed in '[Annexure-VIII](#)' (Company Profile along with documentary evidence of services offered and all relevant enclosures.)
- iii. Any additional information that the bidder may think fit but not included elsewhere in the proposal, which will help MAP_IT to assess the capabilities of the Agency.
- iv. Unsigned quotations will not be considered;

*Note: The Technical Proposal shall not include any financial bid information.

16. Instruction to Bidders regarding submission of Financial Bid

- i. The bidder shall quote the rate as per the proforma given at '[Annexure V](#)' of the Tender Document. Deviation, if any from given particulars/specifications shall not be accepted.
- ii. The bidders shall submit the financial bid cover letter '[Annexure-IX](#)' along with quote.
- iii. No overwriting or cutting is permitted in the financial bid Form. In such cases, the tender shall be summarily rejected. In case of discrepancy in financial quote between words and corresponding figures, the amount depicted in words shall prevail.
- iv. Unsigned quotations will not be considered;

17. Performance Bank Guarantee

The supplier shall have to submit, the Performance Bank Guarantee (PGB) amounting to 10% of the order value for the duration of Onsite warranty* (i.e. three years from successful installation). After completion of all contractual obligations, PBG will be returned to the concerned supplier within 3 months.

18. Validity of Bids

The bids shall be valid for a period of 180 days from the date of opening of bids. A bid for a shorter period of validity shall stand rejected.

19. Bid evaluation

The **Bid evaluation committee** constituted by MAP_IT shall evaluate the tenders. This may involve the representations from field and/or other department's experts. The decision of the bid evaluation committee in the evaluation of the Technical and Commercial bids shall be final. No correspondence will be entertained outside the process of negotiation/discussion with the committee.

For bidders who qualified Minimum qualifying criteria after evaluation followed by Demo/Presentation take place; for both qualifying criteria maximum 50 marks shall be given. 70 would be the minimum qualifying marks.

20. Technical Eligibility

Sl. No.	Criteria	Basis for Evaluation	Max Marks	Required Documents
Organizational Capability				
1.	The bidder shall have experience of successfully completing drone supply and similar related projects of value not less than 20 Lakh each. (Maximum 2 projects shall be considered)	<ul style="list-style-type: none"> Each completed project = 9 marks Each project with a govt. client = addl. 1 mark 	20	Work Order along with Completion Certificate
3.	Relevant quality certificate from a recognized institution for product or process	ISO 9001:2015 10 Mark ISO 45001 5 Marks ISO OHSAS 27001 5 Marks	20	Copy of Valid Certificates
4.	Bidder shall provide the number of DGCA approved Drones (as per technical specification defined in this RFP) supplied so far	<ul style="list-style-type: none"> More than 20 DGCA approved Drones – 10 marks 5 - 10 DGCA approved Drones – 5 marks Less than 2 / Not approved from DGCA – zero marks 	10	Copy of letter/certificate stating that the Drone (fixed/multirotor) is DGCA approved.

Demo & Technical Presentation				
5.	Technical Proposal and Technical presentation	<ul style="list-style-type: none"> • Understanding of Scope of Work: 15 marks • Survey Methodology: 10 marks • Replaceable payload Demonstration of features and capabilities: 10 marks • Technical Capabilities of Drones and its demonstration: 15 marks 	50	NA
Total Marks			100	

The eligible bidders shall be requested to make a presentation on their proposal, to an Evaluation Committee constituted for the purpose. MAP_IT may also ask to arrange interaction with senior officials of the company where product has been implemented.

In order for a bidder to be eligible for the stage three i.e. evaluation of the financial bid submitted, the bidder has to score a minimum of 70% in the Technical Qualification criteria given above.

21. Evaluation of Financial Bids

- i. The financial bids of only those bidders who qualify in the Technical Bid evaluation process will be considered for financial bid evaluation.

22.Award of Contract

From the technically qualified bidders, the Bidder who has submitted the lowest Commercial bid, as per [Annexure V](#), shall be selected as L1 and liable to called for further process leading to the award of work order.

23.Penalty for delayed Supply of Drone/UAV

The Drone/UAV as per the given indicative specifications in [Annexure I \(a\)](#) and [Annexure I \(b\)](#) should be supplied **within 4 weeks** of receipt of the purchase order, failing which a penalty equal to **0.1% of indent cost per day of delay** will be imposed and recovered from payment due to the supplier. In case the successful bidder fails to supply the material even after the lapse of 2 weeks from the time period given for delivery of goods, MAPIT may choose to cancel the work order and purchase the same from the L2 bidder at the risk and cost of the successful bidder.

24.Penalty for delayed Services- During maintenance period

In case of any complaints, same shall have to be resolved within 3 working days. In case of failure of the same, **Rs. 300/- (Rupees Three Hundred only) per day per Drone/UAV** penalty would be imposed and the amount shall be deducted from annual maintenance payments and if required from the PBG.

25.Schedule of Quantities & Prices

Tender Inviting Authority: Additional Chief Executive Officer, Madhya Pradesh Agency for Promotion of IT (MAP_IT), Bhopal – 462011

Description of the Supply: Procurement of two Drone/UAV (a) 1 (One) number of Professional Survey Grade Unmanned Aerial Vehicle/ Drone for Large Scale Mapping and (b) 1 (One) number of standard survey grade Unmanned Aerial Vehicle/ Drone for Large scale mapping from reputed suppliers. The same firm can bid for either one or both category; the bid should be separately done for each category of drones.

Tender Specification No: _____ Dated: ____/____/ 2020

Name of the Bidder/ Bidding Firm / Company:

26.PRICE SCHEDULE & TERMS OF PAYMENTS

(This template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only) for financial quotes bidders shall refer [Annexure-V](#).

Note:

1. All applicable taxes & duties including GST, other levies and charges etc. should be mentioned clearly.
2. It is hereby confirmed that, except as otherwise stipulated in the tender Specification and statutory variations permitted as per the contract, the above unit rates and other charges as mentioned in this schedule, will remain firm till the subject supplies are completed. Further, it is confirmed that no other charges would be payable by MAP_IT, in connection with our execution of the resultant Purchase Order.

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE FOR
LARGE SCALE MAPPING

3. The “Contract Price” shall mean the total price mentioned in col. 5 IN [Annexure-V](#).

27.1 Terms of Payments

- i. 80% of payment towards supplied Drones/UAVs - Against successful installation
- ii. 20% of payment towards supplied Drones/UAVs - Against after verification and one month of successful working of Drone.
- iii. Payment towards 3 years warranty* – in three equal instalments at the end of each year

27.2 Mode of Payments

- i. Payment against bill/Invoice shall be released only after execution of the supply order and the quality of the items are found to the satisfaction of MAP_IT.
- ii. Payment will be made directly to the supplier by cheque or through NEFT/RTGS. No request for other mode of payment will not be entertained.
- iii. No advance payment will be made in any case.
- iv. No other charges towards transport or service charges or by whatsoever name called shall be payable;

27. Purchaser’s Rights

- i. MAP_IT reserves the right to accept/reject any or all the Bids in whole or in part and annul the bidding process without assigning any reason whatsoever;
- ii. MAP_IT reserves the right to award the supply orders in parts to more than one Bidder;
- iii. MAP_IT reserves the right to relax/withdraw any of the terms and conditions mentioned in the Tender Document so as to overcome any problem encountered during the selection of the bidders and also during the course of the execution of the contract;
- iv. MAP_IT reserves the right to black list a bidder for a suitable period in case the firm fails to honor its bid without sufficient grounds;
- v. The actual quantities of Drones that may be purchased by MAP_IT may vary. It shall in no way be binding on MAP_IT to purchase the exact number of quantities as indicated in the Tender Document;

28. Genuineness of Supplied Drone/UAV

- i. The Drones supplied shall be in original sealed packing from the manufacturer;
- ii. In case of any manufacturing defect of any shape/kind, the Drones shall have to be immediately replaced with a new one;
- iii. The supply shall be completed within the delivery time as specified in section “[Penalty for delayed Supply of Drones/UAV](#)” of the Tender Document from the date of placement of Purchase Order;

29.Cancellation of procurement process

- iv. If any procurement process has been cancelled, it shall not be reopened but it shall not prevent the procuring entity from initiating a new procurement process for the same subject matter of procurement, if required.
- v. A procuring entity may, for reasons to be recorded in writing, cancel the process of procurement initiated by it at any time prior to the acceptance of the successful Proposals; or after the successful Proposals is accepted in accordance with (d) and (e) below.
- vi. The procuring entity shall not open any Proposals or proposals after taking a decision to cancel the procurement and shall return such unopened Proposals or proposals.
- vii. The decision of the procuring entity to cancel the procurement and reasons for such decision shall be immediately communicated to all proposers that participated in the procurement process.
- viii. If the proposer whose bid has been accepted as successful fails to sign any written procurement contract as required, or fails to provide any required security for the performance of the contract, the procuring entity may cancel the procurement process.
- ix. If a proposer is convicted of any offence under the Act, the procuring entity may: -
 - i. cancel the relevant procurement process if the bid of the convicted proposer has been declared as successful but no procurement contract has been entered into;
 - ii. Rescind (cancel) the relevant contract or forfeit the payment of all or a part of the contract value if the procurement contract has been entered into between the procuring entity and the convicted proposer.

30.Dispute Resolution

Disputes, legal matters, court matters, if any, shall be subject to Bhopal (MP) Jurisdiction only

31.Correction of Arithmetic Errors in Financial Bids

The bid evaluation committee shall correct arithmetical errors in substantially responsive bids, on the following basis, namely:-

- x. 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, unless in the opinion of the bid evaluation committee there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- xi. if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

- xii. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above.

32.Exclusion of Bids/ Disqualification

MAP_IT shall exclude/ disqualify a bid, if: -

- i. the information submitted, concerning the qualifications of the proposer, was false or constituted a misrepresentation; or
 - ii. the information submitted, concerning the qualifications of the proposer, was materially inaccurate or incomplete; and
 - iii. the proposer is not qualified as per pre-qualification/ eligibility criteria mentioned in the bidding document;
 - iv. the bid materially departs from the requirements specified in the bidding document or it contains false information;
 - v. the proposer, submitting the bid, his agent or any one acting on his behalf, gave or agreed to give, to any officer or employee of the procuring entity or other governmental authority a gratification in any form, or any other thing of value, so as to unduly influence the procurement process;
 - vi. A proposer, in the opinion of the procuring entity, has a conflict of interest materially affecting fair competition.
- xiii. A bid shall be excluded/ disqualified as soon as the cause for its exclusion/ disqualification is discovered.
- xiv. Every decision of MAP_IT to exclude a bid shall be for reasons to be recorded in writing and shall be: -
- i. communicated to the concerned proposer in writing;
 - ii. Published on the MAP_IT website.

33.*Warranty-

03 (Three) Years Comprehensive warranty (Onsite service) which includes free repair/ replacement of all faulty parts, software Up gradation, replacement /repair of faults due to malfunction of system, except Batteries i.e. till completion of its prescribed life/ charge cycle.

03 (Three) Years Comprehensive Warranty from the date of delivery of the said goods /stores /articles to the purchaser and notwithstanding the fact that the purchaser (Inspector) may have inspected and /or approved the said goods/stores/articles. The schedule of onsite service that will be required to be adhered to is:-

- a) Response time after information within 2 days.
- b) Maximum time for repair/ replacement will be one week.
- c) Penalty for repair/replacement beyond 1 week will be @ 0.5% of the cost of equipment per week or part thereof.

ANNEXURE: I (a)

Indicative Specifications of Drone/UAV to be supplied to MAP_IT (Professional Grade)

Technical Specification of Drone		
S. No.	Particulars	Minimum Specifications
1	UAV Type	Fixed Wing/Multi-rotor
2	Mission	Surveying and Large Scale Mapping
3	Landing & Takeoff	Vertical Takeoff and Landing (VTOL)
4	Maximum body weight (MBW) Maximum take-off weight (MTOW)	Up to 2 kg.
5	Flight Height above Ground Level (AGL)	At least 200 m AGL
6	Endurance or Max flight time	25 - 40 minutes
7	*Sensor or Camera	20 MP (Effective pixels @ 1" CMOS) Compatibility to install with modules: i.e. MSS / Thermal etc.
8	Remote Controller	Operating Frequency : 5.725 GHz to 5.850 GHz (Allowed for Indian Region) Max Transmission Distance : (up to 2 km) Display : 5.5 inch screen, 1920×1080, 1000 cd/m ² , Android System Operating Temperature Range : 0° to 40 ^C
9	Gimbal for Optical	Provided for the sensor should integrate with the UAV/drone provided. (Tilt: 3-axis (tilt, roll, yaw) (Pitch: -90° to +30°)
10	GNSS for horizontal and vertical positioning fixing.	RTK (Vertical : ±0.1 m; Horizontal : ±0.1 m) *if attach under 2kg else preferably detachable
11	Nominal coverage at 120 m (400 ft)	0.5 sq. km with 5cm GSD
12	Absolute X,Y accuracy	< 5cm
13	Absolute Z accuracy	5-10 cm
14	Ground Sampling Distance (GSD)	< 5 cm
15	Cruise speed	Minimum 40Km/Hr. (=14m/sec)

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE FOR
LARGE SCALE MAPPING

16	Wind speed tolerance	Minimum 30 Km/Hr. (=8m/sec)
17	Ground Control Station	Laptop/Tab based controller with Flight planning & control software
18	Battery Type	Li-Po or more efficient. International Standard Compliant
19	Onboard storage	Minimum 16 GB or more (Expandable)
20	Emergency Recovery Mode	Ability to return back to launch pad or home position in case of communication failure, low battery/power etc.
21	Technical Support	36 months
22	Installation, testing and commissioning of the equipment after carrying out the pilot project	To be carried out by supplier
23	Format of Digital Image Data captured	Geotagged JPEG/TIF up to 4K resolution videos
24	Flight planning & Mission Planning software	<p>A navigation software package that enables the user to plan and perform complex flight patterns for different surveying applications and should allow the combination of telemetry data with the recorded images/data. The software should feature the functions that enable to plan, fly and prepare the data for post processing for different applications.</p> <p>Package should include at least following features:</p> <ul style="list-style-type: none"> • Flight Plan editor • Mission planner (preferably pix4d capture) • Polygon mission • Grid mission • Double Grid mission • Circular mission • Free Flight mission • System should be capable to upload kml file and need to maintain in to the project • Flight book • Photo tagger • Database • Flight controller with flight and data logging capabilities.
25	Autonomous flight termination system or Return Home (RH) option.	Inbuilt in the UAV/Drone

**SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE FOR
LARGE SCALE MAPPING**

26	Detect and avoid capability.	Integrated with the UAV/Drone
27	Data Link	Communication data link complying with International standard and certification. Frequencies used should not interfere with other users allocates frequency spectrum
28	Communication distance between GCS and flying Drone/UAV	Minimum 2km or more preferred
29	Operational Temperature	0 to 40°C
30	Fire resistant-identification plate inscribed with UIN.	Integrated with the UAV/Drone
31	Standard Accessories	Rugged Transport box with foam, 04 Extra Propeller, 02 Extra Battery, Battery Charger
32	Training	1 week at customer site after delivery and commissioning

Indicative Specifications of Drone/UAV to be supplied to MAP_IT (Standard Grade)

Technical Specification of Drone		
S. No.	Particulars	Minimum Specifications
1	UAV Type	Fixed Wing/Multi-rotor
2	Mission	Surveying and Large Scale Mapping
3	Landing & Takeoff	Vertical Takeoff and Landing (VTOL)
4	Maximum body weight (MBW) Maximum take-off weight (MTOW)	Up to 2 kg.
5	Payload capacity	Preferably Up to 250g
6	Flight Height above Ground Level (AGL)	At least 200 m AGL
7	Endurance or Max flight time	Minimum 25 - 40 minutes
8	*Sensor or Camera	RGB sensor with minimum 20MP (@1" CMOS)
9	Gimbal	Provided for the sensor should integrate with the UAV/drone provided. Stabilization 3-axis (tilt, roll, yaw) Pitch -90° to +30°
10	GNSS for horizontal and vertical positioning fixing.	RTK
11	Nominal coverage at 120 m (400 ft.)	0.5 Sq. Km with 5 cm GSD
12	Absolute X,Y accuracy	< 5cm
13	Absolute Z accuracy	5-10 cm
14	Ground	

**SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE FOR
LARGE SCALE MAPPING**

	Sampling Distance (GSD)	< 5 cm
15	Cruise speed	Minimum 40Km/Hr. (=14m/sec)
16	Wind speed tolerance	Minimum 30 Km/Hr. (=8m/sec)
17	Ground Control Station	<p>Operating Frequency 5.725 GHz to 5.850 GHz (Allowed for Indian Region)</p> <p>Max Transmission Distance 2km or more</p> <p>Built-in Battery 6000 mAh LiPo</p> <p>Mobile Device Holder Tablets and smartphones</p> <p>Operating Temperature 0° to 40° C</p>
18	Battery Type	Li-Po or more efficient. International Standard Compliant
19	Onboard storage	Minimum 16 GB or more (Expandable)
20	Emergency Recovery Mode	Ability to return back to launch pad or home position in case of communication failure, low battery/power etc.
21	Technical Support	36 months
22	Installation, testing and commissioning of the equipment after carrying out the pilot project	To be carried out by supplier
23	Format of Digital Image Data captured	Geotagged JPEG/TIF up to 4K resolution videos
24	Flight planning & control software	<p>A navigation software package that enables the user to plan and perform complex flight patterns for different surveying applications and should allow the combination of telemetry data with the recorded images/data. The software should feature the functions that enable to plan, fly and prepare the data for post processing for different applications.</p> <p>Package should include at least following features:</p> <ul style="list-style-type: none"> • Flight Plan editor

**SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE FOR
LARGE SCALE MAPPING**

		<ul style="list-style-type: none"> • Mission planner (preferably pix4d capture) • Polygon mission • Grid mission • Double Grid mission • Circular mission • Free Flight mission • System should be capable to upload kml file and need to maintain in to the project • Flight book • Photo tagger • Database • Flight controller with flight and data logging capabilities.
25	Autonomous flight termination system or Return Home (RH) option.	Inbuilt in the UAV/Drone
26	Detect and avoid capability.	Integrated with the UAV/Drone
27	Data Link	Communication data link complying with International standard and certification. Frequencies used should not interfere with other users allocates frequency spectrum
28	Communication distance between GCS and flying Drone/UAV	Minimum 2km or more preferred
29	Operational Temperature	0 to 40°C
30	Fire resistant-identification plate inscribed with UIN.	Integrated with the UAV/Drone
31	Standard Accessories	Rugged Transport box with foam, 04 Extra Propeller, 02 Extra Battery, Dual battery Charger
32	Training	1 week at customer site after delivery and commissioning

DOCUMENT TO BE SUBMITTED FOR TECHNICAL BID

Sl. No.	Document	Complied (Y/N)
1	Copy of Certificate of Registration / Incorporation Certificate along with MoA certifying that the Bidder is a legal entity registered in India.	
2	Documentary evidence by the supplier for being the authorized dealer designated by OEM for selling the proposed make and model	
3	Certificate from CA for net worth	
4	Audited financial statements for bidder's turnover	
5	Tax registration Certificate from authorities as appropriate and Permanent Account Number (PAN)	
6	Details of Bidder: 4.1. Name of the Bidder Firm/Agency/Company 4.2. Address of the Bidder Firm/Agency/Company 4.3. Name and full Details (including phone number and email) of Contact person of the Bidding Firm/Agency/Company	
7	Make and Model of Proposed Drone/UAV and Compliance to specifications laid in tender in format enclosed as Annexure IV (a) and Annexure IV (b)	
8	Enclosed copies of Brochure of proposed make and model	
9	Undertaking by bidder for not being blacklisted in format enclosed as Annexure III	

DECLARATION

I hereby certify that the information furnished above is full and correct to the best of our knowledge. The self-attested copies of required documents as mentioned in Annexure II of the Tender Document have been submitted. All documents submitted have been numbered and self-attested with the seal of the Firm/Agency/Company. We understand that in case on non-submission of required documents, the bid shall stand rejected. We understand that in case of any deviation found in the above statement at any stage, the company will be black-listed and will not have any dealing with MAP_IT in future.

(Signature of authorized signatory)

Dated

Name & Address of Firm

Authorized Signature & Seal of the Firm

ANNEXURE-III

DECLARATION FOR NOT BEING BLACKLISTED

(On letter head of the Bidder)

FROM:

DATE:

**To,
The ACEO
MAP_IT
State IT Centre
47-A, Arera Hills
Bhopal (M P)**

Dear Sir,

I/we here by solemnly declare that any of our Directors or Partners, jointly or severally and/or individually or our firm/company have not been black listed by the Central Govt. or the State Govt. or its undertakings.

I/we here by further declare that, if the declaration is found untrue, MAP_IT shall be entitled to take any action against us severally and/or individually or our firm/company in this regard in any manner that may be deemed fit by MAP_IT.

Yours faithfully,

(Signature of authorized signatory)

Dated

Name & Address of Firm

Authorized Signature & Seal of the Firm

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE
FOR LARGE SCALE MAPPING

ANNEXURE-IV (a)

**COMPLIANCE TO SPECIFICATIONS OF PROFESSIONL GRADE UAV AS LAID IN
TENDER**

<i>[to be specified by Bidder]</i>	Model as Proposed by Bidder ->	<i>[to be specified by Bidder]</i>	<i>Make as Proposed by Bidder-></i>
UAV Type	Fixed Wing/Multi-rotor (Standard grade)		
Mission	Surveying and Large Scale Mapping		
Landing & Takeoff	Vertical Takeoff and Landing (VTOL)		
Maximum body weight (MBW) Maximum take- off weight (MTOW)	Up to 2 kg.		
Payload capacity	Preferably Up to 1kg		
Flight Height above Ground Level (AGL)	At least 200 m AGL		
Endurance or Max flight time	Minimum 50 minutes		
*Sensor or Camera	Replaceable Seven cameras including one RGB sensor for visible light imaging and five monochrome sensors for multispectral imaging and one Thermal imaging		
Filters	Blue (B): 450 nm ± 20 nm; Green (G): 560 nm ± 20 nm; Red (R): 650 nm ± 20 nm; Red edge (RE): 730 nm ± 20 nm; Near-infrared (NIR): 840 nm ± 30 nm		
Gimbal	Provided for the sensor should integrate with the UAV/drone provided. (Tilt: -90° to +30°)		
GNSS for horizontal and vertical positioning fixing.	RTK (detachable)		
Nominal coverage at 120 m (400 ft)	0.5 sq. km with 5cm GSD		
Absolute X,Y accuracy	< 5cm		
Absolute Z accuracy	5-10 cm		
Ground Sampling Distance (GSD)	< 5 cm		
Cruise speed	Minimum 40Km/Hr.		

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE
FOR LARGE SCALE MAPPING

	(=14m/sec)		
Wind speed tolerance	Minimum 30 Km/Hr. (=8m/sec)		
Ground Control Station	Laptop/Tab based controller with Flight planning & control software		
Battery Type	Li-Po or more efficient. International Standard Compliant		
Onboard storage	Minimum 32 GB or more (Expandable)		
Emergency Recovery Mode	Ability to return back to launch pad or home position in case of communication failure, low battery/power etc.		
Technical Support	36 months		
Installation, testing and commissioning of the equipment after carrying out the pilot project	To be carried out by supplier		
Format of Digital Image Data captured	Geotagged JPEG/TIF up to 4K resolution videos		
Flight planning & control software	A navigation software package that enables the user to plan and perform complex flight patterns for different surveying applications and should allow the combination of telemetry data with the recorded images/data. The software should feature the functions that enable to plan, fly and prepare the data for post processing for different applications. Package should include at least following features: <ul style="list-style-type: none"> • Flight Plan editor • Flight book • Photo tagger • Database • Flight controller with flight and data logging capabilities. 		
Autonomous flight termination system or	Inbuilt in the UAV/Drone		

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE
FOR LARGE SCALE MAPPING

Return Home (RH) option.			
Flashing anti-collision strobe lights.	Inbuilt in the UAV/Drone		
Barometric equipment with capability for remote sub – scale setting.	Inbuilt in the UAV/Drone		
RFID and GSM – SIM card/ NPNT complaint for APP based real time tracking.	Integrated with the UAV/Drone		
Detect and avoid capability.	Integrated with the UAV/Drone		
Geo fencing	Inbuilt in the UAV/Drone		
Data Link	Communication data link complying with International standard and certification. Frequencies used should not interfere with other users allocates frequency spectrum		
SSR transponder (Mode ‘C’ or ‘S’) or ADS–B OUT equipment	Integrated with the UAV/Drone		
Communication distance between GCS and flying Drone/UAV	Minimum 2km or more preferred		
Operational Temperature	0 to 40°C		
Fire resistant-identification plate inscribed with UIN.	Integrated with the UAV/Drone		
Standard Accessories	Rugged Transport box with foam, 04 Extra Propeller, 02 Extra Battery, Dual battery Charger		
Training	1 week at customer site after delivery and commissioning		

(Signature of authorized signatory)
Dated
Name & Address of Firm
Authorized Signature & Seal of the Firm

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE
FOR LARGE SCALE MAPPING

ANNEXURE-IV (b)

**COMPLIANCE TO SPECIFICATIONS OF STANDARD GRADE UAV AS LAID IN
TENDER**

<i>[to be specified by Bidder]</i>	Model as Proposed by Bidder ->	<i>[to be specified by Bidder]</i>	<i>Make as Proposed by Bidder-></i>
UAV Type	Fixed Wing/Multi-rotor (Standard grade)		
Mission	Surveying and Large Scale Mapping		
Landing & Takeoff	Vertical Takeoff and Landing (VTOL)		
Maximum body weight (MBW) Maximum take- off weight (MTOW)	Up to 2 kg.		
Payload capacity	Preferably Up to 1kg		
Flight Height above Ground Level (AGL)	At least 200 m AGL		
Endurance or Max flight time	Minimum 25 minutes		
*Sensor or Camera	RGB sensor with minimum 20MP camera		
Gimbal	Provided for the sensor should integrate with the UAV/drone provided. (Tilt: -90° to +30°)		
GNSS for horizontal and vertical positioning fixing.	RTK		
Nominal coverage at 120 m (400 ft)	0.5 sq km with 5 cm GSD		
Absolute X,Y accuracy	< 5cm		
Absolute Z accuracy	5-10 cm		
Ground Sampling Distance (GSD)	< 5 cm		
Cruise speed	Minimum 40Km/Hr. (=14m/sec)		
Wind speed tolerance	Minimum 30 Km/Hr. (=8m/sec)		
Ground Control Station	Laptop/Tab based controller with Flight planning & control software		
Battery Type	Li-Po or more efficient. International Standard Compliant		
Onboard storage	Minimum 32 GB or more		

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE
FOR LARGE SCALE MAPPING

	(Expandable)		
Emergency Recovery Mode	Ability to return back to launch pad or home position in case of communication failure, low battery/power etc.		
Technical Support	36 months		
Installation, testing and commissioning of the equipment after carrying out the pilot project	To be carried out by supplier		
Format of Digital Image Data captured	Geotagged JPEG/TIF up to 4K resolution videos		
Flight planning & control software	<p>A navigation software package that enables the user to plan and perform complex flight patterns for different surveying applications and should allow the combination of telemetry data with the recorded images/data. The software should feature the functions that enable to plan, fly and prepare the data for post processing for different applications. Package should include at least following features:</p> <ul style="list-style-type: none"> • Flight Plan editor • Flight book • Photo tagger • Database • Flight controller with flight and data logging capabilities. 		
Autonomous flight termination system or Return Home (RH) option.	Inbuilt in the UAV/Drone		
Flashing anti-collision strobe lights.	Inbuilt in the UAV/Drone		
Barometric equipment with capability for remote sub – scale setting.	Inbuilt in the UAV/Drone		
RFID and GSM – SIM card/ NPNT complaint for APP based real time tracking.	Integrated with the UAV/Drone		

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE
FOR LARGE SCALE MAPPING

Detect and avoid capability.	Integrated with the UAV/Drone		
Geo fencing	Inbuilt in the UAV/Drone		
Data Link	Communication data link complying with International standard and certification. Frequencies used should not interfere with other users allocates frequency spectrum		
SSR transponder (Mode 'C' or 'S') or ADS-B OUT equipment	Integrated with the UAV/Drone		
Communication distance between GCS and flying Drone/UAV	Minimum 2km or more preferred		
Operational Temperature	0 to 40°C		
Fire resistant-identification plate inscribed with UIN.	Integrated with the UAV/Drone		
Standard Accessories	Rugged Transport box with foam, 04 Extra Propeller, 02 Extra Battery, Dual battery Charger		
Training	1 week at customer site after delivery and commissioning		
Training	1 week at customer site after delivery and commissioning		

(Signature of authorized signatory)
Dated
Name & Address of Firm
Authorized Signature & Seal of the Firm

ANNEXURE-V

FORMAT FOR SUBMISSION OF FINANCIAL BID

S. No.	Item	Quantity	Unit Price (INR)	Total Amount (INR)
1	2	3	4	5
1	Supply of Drone/UAV Professional Survey Grade	1 (Nos.)		
2	Supply of Drone/UAV Standard Survey Grade	1 (Nos.)		
3	3 Years Onsite warranty			
Total in Figures				
Quoted Rate in Words				

Total Quote (INR) in words.....

(Signature of authorized signatory)
Dated
Name & Address
of Firm Authorized Signature &
Seal of the Firm

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/
DRONE FOR LARGE SCALE MAPPING

ANNEXURE-VI

PRE-PROPOSALS QUERIES FORMAT

{To be filled by the bidder}

Name of the Company/Firm:

Name of Person(s) Representing the Company/ Firm:

Name of Person	Designation	Email-ID(s)	Tel. Nos. & Fax Nos.

Company/Firm Contacts:

Contact Person(s)	Address for Correspondence	Email-ID(s)	Tel. Nos. & Fax Nos.

Query / Clarification Sought:

Sr. No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification

Note: - Queries must be strictly submitted only in the prescribed format (.XLS/ .XLSX/ .PDF). Queries not submitted in the prescribed format will not be considered/ responded at all by the procuring entity.

Pre-Proposals queries should be sent at the e-mail address: sgoyal@mapit.gov.in, patel.anoop@mapit.gov.in with CC to aceo@mapit.gov.in

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/
DRONE FOR LARGE SCALE MAPPING

ANNEXURE-VII

COVERING LETTER

{to be submitted on the letter head of the bidder}

To,
Addl Chief Executive Officer
Madhya Pradesh Agency for Promotion of Information Technology (MAP_IT)
State IT Centre, 47-A, Arera Hills, Bhopal 462011

Dear Sir,

We, the undersigned, offer to sell Drone/UAV Professional Survey Grade & Standard Survey Grade Unmanned Aerial Vehicle/ Drone 1Nos. each for Large scale mapping in accordance with your RFP datedand our Proposal.

“We are hereby submitting our Proposal as per the requirements mentioned in the RFP.

We hereby declare that:

- a) All the information and statements made in this Proposal are true and we accept that any misinterpretation or misrepresentation contained in this Proposal may lead to our disqualification by the Client and/or may be sanctioned by the Bank.
- (b) We meet the eligibility requirements as stated in this RFP, and we confirm our understanding of our obligation to abide by the policy in regard to corrupt and fraudulent practices.
- (c) Our Proposal is binding upon us and subject to any modifications/ amendments MAP_IT made before the date of submission.
- (d) Our Firm /Company do not face any sanction or any pending disciplinary action from any authority against our Firm /Company.
- (e) We understand that the Client is not bound to accept any Proposal that the Client receives.

Thanking you,

Authorized Signature {In full and initials}:

Name and Title of Signatory:

Name of Bidder (Firm/ Company's name):

In the capacity of:

Address:

Contact information (phone and e-mail):

Date: _____

Place: _____

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/
DRONE FOR LARGE SCALE MAPPING

ANNEXURE-VIII

QUALIFICATION OF THE BIDDER

1. Bidder Information Sheet

Bidder Information Sheet

S. No.	Particulars	Details	Page no. (for any attachment)
1.	Name of the Entity/ Organization		
2.	Registered office address Telephone number Fax number Email		
3.	Correspondence Address		
4.	Details of the Contact Person (name, designation, address) Telephone number Fax number Email		
5.	Financial Turnover	FY 18-19: FY 17-18:	
6.	Year and Place of the establishment of the entity/organization		
7.	Service Tax Registration details		
8.	Details of the offices present in Madhya Pradesh, if any		

2. Experience of supplying Drone/UAV's Details

Supplied Drone/UAV's Details (To be filled for each Drone separately)

S.No.	Item	Details
1	Type of the Drone (Also specify the name of OEM/Assembler/Reseller AND URL of the website/portal if any)	
2	Work Order / Contract No.	
3	Contract Value (In Lakhs)	
4	Client Details	
5	Name, Title & Address of the Client who can be contacted	
6	No. of Drones	
7	Start Date & End Date	
8	Relevant work domain	

Note:

- Bidder can include brief profile of the firm/company here. (Not more than three pages).
- *Work Order/ Contract copy (Mandatory attachment)

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/
DRONE FOR LARGE SCALE MAPPING

ANNEXURE-IX

FINANCIAL BID COVER LETTER & FORMAT

{ to be submitted by the proposer on his Letter head }

To,
The Addl. Chief Executive Officer, MAP_IT
State IT Centre, 47 A, Arera Hills,
Bhopal 462011

Date:

Reference: NIT No.: _____ Dated: _____ for Suppling
of Drone/UAV Professional Survey Grade & Standard Survey Grade Unmanned Aerial Vehicle/
Drone 1Nos. each for large scale mapping.

Dear Sir,

We, the undersigned proposer, having read & examined in detail, the Bidding Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to work as mentioned in the Scope of the work, Service Level Standards & in conformity with the said bidding document for the same.

I/ We undertake that the prices are in conformity with the specifications prescribed. The quote/ price is inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties as mentioned in the financial bid.

I/ We undertake, if our bid is accepted, to deliver the services in accordance with the work order.

I/ We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee as prescribed in the bidding document.

I/ We agree to abide by this bid for a period of 180 days after the last date fixed for bid submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

I/ We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that you are not bound to accept the lowest or any bid you may receive.

We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Authorized Signatory
Name:
Designation:

SUPPLYING OF PROFESSIONAL & STANDARD SURVEY GRADE UNMANNED AERIAL VEHICLE/ DRONE FOR
LARGE SCALE MAPPING

ANNEXURE-X

SELF-DECLARATION

{to be submitted on the letter head of the bidder}

To,

Date:

Addl. Chief Executive Officer

Madhya Pradesh Agency for Promotion of Information Technology (MAP_IT)

State IT Centre, 47-A, Arera Hills, Bhopal 462011

In response to the RFP Ref. No. _____ dated for Supplying of Drone/UAV Professional Survey Grade & Standard Survey Grade Unmanned Aerial Vehicle/ Drone 1Nos. each for large scale mapping, as an Owner/ Partner/ Director/ Auth. Sign. of _____, I/ We hereby declare that presently our Company/ firm _____, at the time of bidding,

- (a) Possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
- (b) Have fulfilled my/ our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
- (c) is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central government/ PSU/ UT.
- (d) Does not have any previous transgressions with any entity in India or any other country during the last three years
- (e) Does not have any debarment by any other procuring entity
- (f) is not insolvent in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and is not the subject of legal proceedings for any of the foregoing reasons;
- (g) does not have, and our directors and officers not have been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
- (h) Does not have a conflict of interest as mentioned in the bidding document which materially affects the fair competition.
- (i) Will comply with the code of integrity as specified in the bidding document.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken as per the provisions of the applicable Act and Rules thereto prescribed by GoMP, my/ our security may be forfeited in full and our bid, to the extent accepted, may be cancelled.

Thanking you,

Authorized Signature {In full and initials}:

Name and Title of Signatory:

Name of Bidder (Firm/ Company's name):

In the capacity of:

Address:

Contact information (phone and e-mail):

AUTHORIZED DEALERSHIP CERTIFICATE FROM THE MANUFACTURER

DECLARATION

1. I,..... Son/ Daughter/
Wife of
Shri.....
....., Proprietor/Director/authorized signatory of the Agency mentioned above, is competent to
sign this declaration and execute this tender document.

2. I, have carefully read and understood all the terms and conditions of the tender and undertake to
abide by them;

3. The information/documents furnished along with the above application are true and authentic to the
best of my knowledge and belief. I/we, am/ are well aware of the fact that furnishing of any false
information/fabricated document would lead to rejection of my tender at any stage besides liabilities towards
prosecution under appropriate law.

4. Certified that (Name of the Agency)
is an Authorized Dealer of
..... (Name of OEM) for supply of
.....
.....

5. Certified that the agency has not been black listed /security deposit has not been forfeited in case
of the agency during the last five years.

Date:

Signature of authorized person

Full Name: Place: Seal