

City of Portsmouth
Portsmouth, New Hampshire
Police Department

INVITATION TO BID

The Portsmouth Police Department is seeking to purchase Outfitted Police Drone Fleet. **Sealed** bid proposals, **plainly marked** "POLICE DEPARTMENT: Police Department Outfitted Drone Fleet, Bid Number 48-19" **on the outside of the envelope**, addressed to the Finance/Purchasing Department, City Hall, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801, will be accepted until 2:30 p.m., May 15, 2019 at which time all bids will be publicly opened and read aloud.

Specifications for the Police Drone Fleet proposal forms may be obtained from the Finance/Purchasing Department on the third floor at the above address, on-line at **www.cityofportsmouth.com**, or by calling the Purchasing Coordinator at 603-610-7227.

Addenda to this bid, if any, including written answers to questions, will be posted on the City of Portsmouth website at **http://www.cityofportsmouth.com/finance/purchasing.htm** under the proper heading. Addenda and updates will NOT be sent directly to vendors.

The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

INSTRUCTION TO BIDDERS

I. Preparation of Bid Proposal

- A. The Bidder shall submit its proposal upon the form furnished by the City (attached). Prices shall be given in both in words and figures.
- B. Corrections made to amounts or information requested on the bid form should be made by crossing out the error and entering the new price or information above or below it. The correction must be initialed. In case of discrepancy between the prices written in words and those written in figures, the prices written in words shall govern.
- C. The bidder's proposal must be signed by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture; by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the owner, If the proposal is made by an individual, his name and post office address must be shown, by a partnership the name and post office address if each partnership member must be shown; as a joint venture, the name and post office address of each must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business addresses of the President, Secretary, and Treasurer.
- D. All words, figures, corrections shall be in ink or typed. All signatures shall be in ink.

II. Delivery of Bid Proposals

When sent by mail, the sealed proposal shall be addressed to the owner at the address and in the care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening of the bids will be returned to the bidder, unopened. Faxed bid proposals are not acceptable.

III. Withdrawal of Bid Proposals

A bidder will be permitted to withdraw his proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposals.

IV. Public Opening of Bid Proposals

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

V. Irregular Proposals and Disqualification of Bidders

Bid proposals that are irregular may be rejected. Irregular bid proposals include the following:

- A. Failure to use the bid form provided or alteration of the form.
- B. Unauthorized additions, conditional or alternated bids, incomplete bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- C. The addition of any provision reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

Bidders may be disqualified and the bid proposal rejected for the following reasons:

- D. More than one proposal for the same work from an individual, firm, or corporation under the same or different name;
- E. Evidence of collusion among bidders;
- F. Failure to submit all required information requested in bid specifications;
- G. Bidder is not qualified or able to provide the services or product(s) described in the bid specifications; or
- H. Disqualification is in the best interest of the City of Portsmouth.

AWARD

I. Consideration of Proposals and Award

After the proposals are opened and read, bid results will be available to the public. In case of discrepancy between the prices written in words and those written figures, the prices written in words shall govern.

If an award is made, it will be made to the lowest, responsible, qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by mail at the address indicated on the proposal.

The award is not considered official until such time that a Purchase Order, fully executed contract or an award letter has been issued by the Finance Director. No presumption of award shall be made by the bidder until such documents are in hand. Verbal notification of award is not considered official. Any action by the bidder to assume otherwise is done so at his/her own risk and the City will not be held liable for any expense incurred by a bidder that has not received an official award.

III. Reservation of Rights

The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

The City reserves the right to purchase extended warranties as may be available and are within budget.

CITY OF PORTSMOUTH
 FINANCE DEPARTMENT
 PORTSMOUTH, NEW HAMPSHIRE

**POLICE DEPARTMENT
 BID LIST**

OUTFITTED DRONE FLEET

Make/Model: [See List Below]

Quantity: [See List Below]

Include the following [See List Below] Requirements:

Features:

The list below indicates specific items of equipment.

The specifications below are “exact” specifications based on a review of different products in preparation for this bid document.

The items quoted by a bidder may be different, **but must be of equivalent quality, approximate size, capability, etc., as described below.**

Specifications of Items

LARGE sUAV REQUIREMENTS				
Description		Meets Spec	Doesn't Meet Spec	Comment
(1)	sUAV body with the following specifications			
	Dimensions (folded)	28.2x8.7x9.3 inches		
	Dimensions (unfolded)	34.9x34.6x14.9 inches		
	Max take-off weight	6.14 kg		
	Max ascent speed	16.4 ft/s		
	Max decent speed	Vertical: 9.8 ft/s		
	Max wind resistance	39.4 ft/s		

Max flight time (no payload)	30 min			
Operating Temp range	0°-110° F			
IP waterproof rating	IP43			
sUAV Must Include:				
Onboard First Person View camera				
Built in ADS-B receiver				
Payload Drop System				
Obstacle sensing system				
Complete Package Must Include:				
Quantity (2)	Remote controls capable of master/slave configuration			
(2)	7.85” monitors			
(6)	pairs of propellers			
(6)	Batteries			
(4)	Remote control batteries (if applicable)			
(1)	Battery charger pack capable of charging sUAS batteries at once, USB charging ports, battery information displays contained in single hard travel case.			
(1)	16 GB micro SD card			
(1)	3x gimbal damper			
(1)	Top mounted gimbal connector			
(2)	Lower mounted gimbal connectors			
(6)	Battery insulation stickers			
(1)	Firmware Upgrade Service			
(1)	Custom hard portable storage case capable of storing all drone components with custom cut foam			
(1)	Night operation- red/green navigation strobe light kit (1x red night ops strobe and housing, 1x green night ops strobe and housing, 2x 9V batteries)			

	(1)	Lighting system capable of producing 3000 lumens, adjustable brightness, waterproof, universal mounting hardware, up to 2 hours of operation at 50% power			
	(1)	Monitor protective cover			
Camera/Gimbal					
	(1)	Fully integrated EO/IR camera and gimbal system			
		(a) Thermal resolution: 640x512 (13mm: 45°x37°)			
		(b) Visible Sensor resolution: 4000x3000 (56°x45°)			
		(c) IP44 rated water and dust resistance			
		(d) Radiometric images give temperature readings for each pixel			
		(e) MSX image enhancement and multiple smart temperature features			
		(f) Imaging modes: IR-only, Vis-only, picture-in-picture (IR in Vis)			
	(1)	30x Optical Zoom Camera			
		(a) Digital zoom up to 6x (total magnification up to 180x)			
		(b) Tap zoom			
		(c) Stabilization within 0.01°			
		(d) Extremely stable even when fully zoomed in			
MEDIUM sUAV (IR CAPABLE)					
	Quantity (2)	sUAV body with each one having all of the following specifications:			
	Dimensions (folded)	214x91x84mm			
	Dimensions (unfolded)	322x242x84mm			

Max take-off weight	1100g			
Max ascent speed	5 m/s			
Max decent speed	3 m/s			
Max wind resistance	29-38 kph			
Min flight time (no payload)	25 min			
Operating Temp range	20°-110° F			
Obstacle sensing system	Omni-directional			
Complete Package Per sUAS Must Include:				
	Remote controls capable of master/slave configuration			
Quantity (1)	7.85" monitors			
(1)	Drone tablet/monitor mount for remote control			
(4)	pairs of propellers			
(4)	Self heating Batteries			
(2)	Remote control batteries (if applicable)			
(1)	5 in 1 Battery charger pack capable of charging 3 sUAS batteries at once, USB charging ports, battery charging information displays and remote charging capabilities, if necessary, contained in travel case.			
(1)	16 GB micro SD card			
(1)	set of spare control sticks			
(1)	USB-C cable			
(1)	USB adapter			
(1)	removable speaker system able to transmit recorded messages at 100db at 1 meter			
(1)	removable spotlight capable of illuminating at 11 lux at 30m straight			
(1)	removable beacon capable of producing a light intensity of 157 cd			
(1)	3 axis gimbal			
	(a) mechanical range of -135°-+45° Tilt and -100°-			

	+100° Pan			
	(b) controllable range of -90°-+30° Tilt and -75°-+75° Pan			
	(c) Angular vibration range of ±0.005°			
(1)	RC cable (lightning connector)			
(1)	RC cable (micro USB)			
(1)	RC cable (USB-C)			
(1)	1 Year device support			
(1)	Custom hard portable storage case capable of storing all drone components with custom cut foam			
(6)	Battery insulation stickers			
(1)	Firmware Upgrade Service			
(1)	Night operation- red/green navigation strobe light kit (1x red night ops strobe and housing, 1x green night ops strobe and housing, 2x 9V batteries)			
(1)	Monitor protective cover			
Camera/Thermal Per sUAS				
(2)	Integrated Dual IR/VIS Imagery Camera			
	(a) Integrated radiometric thermal sensor			
	(b) Adjustable parameters for emissivity and reflective surfaces			
	(c) Multiple display modes FLIR, Infrared and Visible			
Photo	JPEG, DNG (raw), min 12 megapixels			
Video Format	MP4, MOV (MPEG-4 AVC/H.264)			
Video recording modes	4k Ultra HD, 2.7k and FHD			
MEDIUM sUAV (ZOOM CAPABLE)				
Quantity (1)	sUAV body with all of the following specifications:			

Dimensions (folded)	214x91x84 mm			
Dimensions (unfolded)	322x242x84mm			
Max take-off weight	910g			
Max ascent speed	5 m/s			
Max decent speed	3 m/s			
Max wind resistance	29-38 kph			
Min flight time (no payload)	25 min			
Operating Temp range	20°-110° F			
Obstacle sensing system	Omni-directional			
Complete Package Must Include:				
	Remote controls capable of master/slave configuration			
(1)	7.85" monitors			
(1)	Drone tablet/monitor mount for remote control			
(4)	pairs of propellers			
(4)	Self-heating Batteries			
(2)	Remote control batteries (if applicable)			
(1)	5 in 1 Battery charger pack capable of charging 3 sUAS batteries at once, USB charging ports, battery charging information displays and remote charging capabilities.			
(1)	32 GB micro SD card			
(1)	set of spare control sticks			
(1)	USB-C cable			
(1)	USB adapter			
(1)	3 axis gimbal			
	(a) mechanical range of -135°-+45° Tilt and -100°-+100° Pan			
	(b) controllable range of -90°-+30° Tilt and -75°-+75° Pan			
	(c) Angular vibration range of ±0.005°			
(1)	RC cable (lightning connector)			
(1)	RC cable (micro USB)			

	(1)	1 Year device support			
	(1)	Custom hard portable storage case capable of storing all drone components with custom cut foam			
	(1)	Firmware Upgrade Service			
	(1)	Night operation- red/green navigation strobe light kit (1x red night ops strobe and housing, 1x green night ops strobe and housing, 2x 9V batteries)			
	(1)	Lighting system capable of producing 3000 lumens, adjustable brightness, waterproof, universal mounting hardware, up to 2 hours of operation at 50% power			
	(1)	Monitor protective cover			
Camera					
	(1)	24-48 mm Optical Zoom Camera			
		(a) 12 megapixel ½.3” CMOS Sensor			
		(b) 48 megapixel super resolution photo			
		(c) 4x lossless zoom full high definition video			
	ISO Range	Video 100-3200			
		Photo 100-1600 (auto), 100-3200 (manual)			
	Photo	JPEG, DNG (raw), min 12 megapixels			
	Video Format	MP4, MOV (MPEG-4 AVC/H.264, HEVC/H.265)			
	Video recording modes	4k Ultra HD, 2.7k and FHD			
TRAINING sUAV					
	Quantity (2)	sUAV body with each one having all of the following specifications:			

Dimensions (folded):	168x83x49 mm			
Dimensions (unfolded):	168x184x64mm			
Max take-off weight:	430g			
Max ascent speed	4 m/s			
Max decent speed	3 m/s			
Max wind resistance:	29-38 kph			
Min flight time (no payload)	20 min			
Operating Temp range:	20°-110° F			
Obstacle sensing system	Forward, Backward and Downward			
Complete Package Per sUAV Must Include:				
(2)	Remote controls			
(1)	Drone tablet/monitor mount for remote control			
(4)	pairs of propellers			
(4)	Batteries			
(2)	Remote control batteries (if applicable)			
(1)	4 in 1 Battery charger pack capable of charging 3 sUAS batteries at once, USB charging ports, battery charging information displays and remote charging capabilities.			
(1)	16 GB micro SD card			
(1)	USB-C cable			
(1)	USB adapter			
(1)	3 axis gimbal			
	(a) mechanical range of -100°-+22° Tilt and -12°-+12° Pan			
	(b) controllable range of -90°-+17° Tilt			
	(c) Angular vibration range of ±0.005°			
(1)	RC cable (lightning connector)			
(1)	RC cable (micro USB)			
(1)	RC cable (USB-C)			
(2)	Custom hard portable storage case capable of			

	storing all drone components with custom cut foam			
(1)	Firmware Upgrade Service			
(1)	Night operation- red/green navigation strobe light kit (1x red night ops strobe and housing, 1x green night ops strobe and housing, 2x 9V batteries)			
	Obstacle sensing capability			
Additional Items In Each sUAV Package				
(2)	RC transmitter padded controller harness			
(3)	sUAV landing pads			
(2)	7.9" tablet with Wi-Fi + Cellular (64GB) capabilities which is compatible with Apple TV			
Camera (1 per training sUAV)				
(2)	4K Camera			
	(a) 12 megapixel 1/2.3" CMOS Sensor			
	(b) 48 megapixel super resolution photo			
	(c) 4x lossless zoom full high definition video			
ISO Range	Video 100-3200			
	Photo 100-1600 (auto), 100-3200 (manual)			
Video Format	MP4, MOV (H.264/MPEG-4 AVC)			
Video recording modes	4k Ultra HD, 2.7k, HD and FHD			
TRAINING				
Training – Drones/Cameras	Training for staff on the equipment (mechanics, how each piece works), prior to taking it to training classes to get certified, etc.)			

Required Features:

Equivalent quality, approximate size, capability, etc., as described above

Additional

- Please describe what is included in the standard warranty for each drone, battery charging system, remote controls, cameras, and gimbals

Please include a complete line item list of all Equipment & Features in your bid.

CITY OF PORTSMOUTH
FINANCE DEPARTMENT
PORTSMOUTH, NEW HAMPSHIRE

BID PROPOSAL FORM

OUTFITTED DRONE FLEET

Price per – LARGE sUAV (1):

In Figures \$ _____ Price in Words
\$ _____

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

In Figures \$ _____ Price in Words
\$ _____

Price per – LARGE sUAV-Camera/Gimbal System (1):

In Figures \$ _____ Price in Words
\$ _____

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

In Figures \$ _____ Price in Words
\$ _____

Price per – LARGE sUAV-Camera/Zoom System (1):

In Figures \$ _____ Price in Words
\$ _____

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

In Figures \$ _____ Price in Words
\$ _____

Price per – MEDIUM sUAV- IR Capable (2):

Price Per In Figures \$ _____ Price Per in Words

Total (2) In Figures \$ _____ Price in Words

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

Price Per In Figures \$ _____ Price Per in Words

Total (2) In Figures \$ _____ Price in Words

Price per – MEDIUM sUAV – IR Capable - Camera (2):

Price Per In Figures \$ _____ Price Per in Words

Total (2) In Figures \$ _____ Price in Words

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

Price Per In Figures \$ _____ Price Per in Words

Total (2) In Figures \$ _____ Price in Words

Price per – MEDIUM sUAV – ZOOM capable (1):

In Figures \$ _____ Price in Words
\$ _____

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

In Figures \$ _____ Price in Words
\$ _____

Price per – MEDIUM sUAV-ZOOM Capable Camera:

In Figures \$ _____ Price in Words
\$ _____

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

In Figures \$ _____ Price in Words
\$ _____

Price per – TRAINING sUAV (2):

Price Per In Figures \$ _____ Price Per in Words

Total (2) In Figures \$ _____ Price in Words

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

Price Per In Figures \$ _____ Price Per in Words

Total (2) In Figures \$ _____ Price in Words

Price per – TRAINING sUAV – Camera (2):

Price Per In Figures \$ _____ Price Per in Words

Total (2) In Figures \$ _____ Price in Words

Warranty: [Describe: What warranty is included/what is available at additional cost?]:

Price Per In Figures \$ _____ Price Per in Words

Total (2) In Figures \$ _____ Price in Words

Price per – TRAINING SESSIONS - Staff Training: [Describe: What training is included.]

Price In Figures \$ _____ Price in Words _____

Total In Figures \$ _____ Price in Words _____

Grand Total Bid: Upon which the award will be made
(Total Equipment Items & Training Only (includes standard warranty provided by manufacturer))

In	Figures	\$ _____	Price	in	Words
	\$ _____				

The City of Portsmouth reserves the right to purchase extended warranties as may be available and are within budget.

DELIVERY: Bidder must state approximate number of days from award that delivery will be made. Not to exceed [30] days. Bidder must deliver [Outfitted Drone Fleet](#) to the [Portsmouth Police Department, 3 Junkins Avenue, Portsmouth, New Hampshire](#). Bidder must pre-schedule the delivery date for the [equipment] with the Police Department [Lieutenant Christian Cummings](#) who will receive.

The undersigned agrees that he/she on behalf of Bidder has read the bid proposal documents, the instruction to bidders specifications and agrees to the terms and conditions set forth herein. Bidder understands that bid prices shall include delivery FOB to the address identified in the bid documents and bid price shall be firm for at least 45 days.

Bidder further agrees that this bid is not made jointly or in conjunction, cooperation or collusion with any person, firm, corporation or other legal entity.

Bidder agrees no officer, agent or employee of the Owner is directly or indirectly interested in this Bid.

Submitted by Authorized Agent:

(Print Name & Title)

Signature: _____

Date: _____

Company: _____

Address: _____

City/State/Zip: _____

E-mail address: _____

Telephone: _____

Fax: _____