

FORM N: DETAILED SPECIFICATIONS TENDER 677-2024

PROVISION FOR THE LEASE TO OWN A POLICE HELICOPTER

- 1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS**
 - 1.1 All items in these specifications should be answered indicating compliance or non-compliance.
 - 1.2 **Bidder/Proponents shall state “yes” for compliance or state “deviation”**, or give a reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specifications is used, the City will also consider deviations and/or equivalents.
 - 1.3 Lengthy explanations of deviations may be included in a separate document and must reference the appropriate Detailed Specification.
 - 1.4 Each Bidder/Proponent is required to fill in every blank. Failure to do so may be used as a basis for rejection of bid/proposal.
 - 1.5 It will be the responsibility of the Bidder/Proponent to inform the City of any errors or omissions in these Detailed Specifications, for under this Contract, the Contractor shall be held responsible to ensure that the manufacturer will be responsible for the design, performance, reliability and satisfactory operational function of the unit.
- 2. DESCRIPTION OF EQUIPMENT**
 - 2.1 These specifications describe a **Police Helicopter** and other equipment and features as specified herein.
 - 2.2 The **Police Helicopter** shall be no older than **2023** model year or newer.
 - 2.3 The **Police Helicopter** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
 - 2.4 The **Police Helicopter** shall be the manufacturer's latest model, as may be modified by these specifications. The **Police Helicopter**, including all auxiliary equipment, shall be furnished complete and ready for use. All parts not specifically mentioned but which are required for the complete unit shall conform in strength, quality of material and workmanship, to the best standards and engineering practice in the industry.
 - 2.5 The ratings specified herein merely state the minimum values acceptable to the City, not implying that those values are sufficient for the design of the particular equipment being bid/Proposed.
- 3. OTHER SPECIFICATIONS AND STANDARDS**
 - 3.1 All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning minimum acceptable standards.
 - 3.2 Where applicable the **Police Helicopter** shall comply with the applicable regulations:
 - Transport Canada, National Safety Mark, NSM: <http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>.
 - Manitoba Safety and Health Regulation, Parts 12, 16, 22: <http://web2.gov.mb.ca/laws/regis/current/217.06.pdf>.
 - Canadian Motor Vehicle Safety Standards C.M.V.S.S. http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html.
 - Canadian Standards Association, CSA: <http://www.csagroup.org/>.
 - Under Writers of Canada, U/L: <http://www.ulc.ca/>.
 - Society of Automotive Engineers, SAE: <http://www.sae.org/>.
 - Canadian Aviation Regulations and Standards
<https://tc.canada.ca/en/corporate-services/acts-regulations/list-regulations/canadian-aviation-regulations-sor-96-433>

3.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

4. FUEL

4.1 The Police Helicopter shall be fully fueled upon delivery (no exceptions).

5. REFERENCES

5.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

6. MAKE & MODEL

6.1 State year, make and model being bid: _____

7. PERFORMANCE RELIABILITY

7.1 The responsibility for the design of the **Police Helicopter** its performance and reliability shall rest upon the Contractor.

7.2 The term “repeated failures” as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of “repeated failures”, as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer’s preventative maintenance schedule.

7.3 Where the **Police Helicopter** develops “repeated failures” in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 The **Police Helicopter** shall be capable of consistent top performance in City of Winnipeg Environment. **Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C).**

8. SERVICE FACILITY

8.1 For the purpose of repairs, the Bidder shall have an authorized service facility. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator

9. QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

- 9.1 The manufacturer of the **Police Helicopter** shall have five (5) years continuous experience manufacturing **Police Helicopters**
- 9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.
- 9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **Police Helicopter** of the type being offered.

10.1 City Responsibility:

Under the [Lease to own proposal](#), the City shall be responsible for the following items for equipment under this Contract:

- Licensing and insurance coverage for the equipment
- Repair of damage to the **helicopter** where damage has proven to have been caused by negligence on the part of the City
- Fuel and other normal operating and maintenance supplies including daily and weekly maintenance.
- Consumables
- Daily greasing

10.2 Contractor Responsibility:

Under the [Lease to own proposal](#), the Contractor shall be responsible for the following items for equipment under this Contract:

(a) Baseline Aircraft Definition H125 (new with zero time on engine and airframe)

- (i) Pilot and AME Factory training 4 Pilots / 2 AME _____
- (ii) Dual Squirrels cheeks - Pilot Hinge Door and/or sliding on both sides _____
- (iii) LH Sliding Door with LH Squirrel cheek _____
- (iv) Grey Interior _____

- (v) Painted Interior Cabin _____
- (vi) Grey Aeramat Flooring _____
- (vii) Enhanced Thermal Protection engine exhaust area _____
- (viii) 200 AMP Starter Generator in lieu of Standard Generator _____
- (ix) Spare Starter Generator 200 amp _____
- (x) Dual USB Outlet for Pilot and Copilot _____
- (xi) Jupiter JA72-006 for Pilot & Jupiter JA72-210 for Co-Pilot (glove box) _____
- (xii) Aft Cargo Door Hinge Kit and Warning _____
- (xiii) Engine Air Inlet Cover _____
- (xiv) Rupture Resistant Fuel Tank _____
- (xv) Exterior Paint: Three Colour including Airbus Logos _____
- (xvi) Cowling Maintenance Steps _____
- (xvii) Dual Hydraulics (Increased MGW to 2370 kg) _____
- (xviii) Collective Activated Hourmeter _____
- (xix) Perform TU211 upgrade SB_SB_292_73_2211_EN_A _____
- (xx) Perform ASB No. AS350-52.00.54 _____
- (xxi) iPad AS 350 mount _____
- (xxii) Document holder for Pilot & Co-Pilot _____
- (xxiii) Issuance of TCCA CofA _____

(xxiv) 28 V Cabin (North-American Connectors) _____

(xxv) Winter cover kit _____

(xxvi) 10 AMP Refueling Plugs _____

(xxvii) Main rotor blade tie-down kit _____

(b) Avionics;

(i) NVIS certification _____

(ii) Avionics Master Switch _____

(iii) Instrument Panel Overlay Lighting _____

(iv) Garmin 3 Axis Auto Pilot _____

(v) VHF/VOR/LOC/GLIDE Garmin GNC 255A with Cyclic Frequency Control

(vi) VHF/VOR/LOC/GLIDE/GPS Garmin GTN 650H _____

(vii) Install 9 VDC for Pilot and Co-pilot Helmet ANC Requirements _____

(viii) Add second mobile phone Bluetooth interface to the audio system _____

(ix) Ground maintenance audio plug to match the headset (Peltor) _____

(x) Headset Bose Noise Cancelling Quantity 2 _____

(xi) Garmin G500H TXi EFIS System including Heli Synthetic Vision _____

(xii) Garmin Radar Altimeter 5G Compatible _____

(xiii) GTS 800 Traffic Advisory System Installation _____

(xiv) ELT Kannad INTEGRA 406 AP-H Ensure 5G Compatible _____

(xv) ELT Antenna Relocation to roof _____

(xvi) Mode S Transponder Garmin GTX 335R _____

(xvii) Electronic Standby Instrument ESI 500 _____

(c) Cabin Interior;

(i) Tinted Windows _____

(ii) RSG Air Conditioning System (Side Condensor) _____

(iii) 5 Place Interior Options 3 Rear Passengers/TFO Area _____

(iv) Battery Tailboom Relocation and spare NiCad Battery _____

(d) Utility Mission Requirements;

(i) Heavy Duty Cargo Tie Down Rings _____

(ii) Full Width Instrument Panel (With LH & RH USB ports) _____

(iii) Installation of Whelen LED Landing Light - Qty: 1 (Bulb replaced for NVG)

(iv) Installation of Swiveling Landing Light (Bulb replaced for NVG Compatible)

(v) Settling Protectors (Bear Paws) _____

- (vi) Cable Cutter _____
- (vii) Dual Controls _____
- (viii) Collective Barrier _____
- (ix) Facet Scavenge Oil Filter _____
- (x) FDC Aerofilter (Dual Hydraulics) _____
- (xi) Fire extinguisher located at pilot seat _____
- (xii) Upgraded lead Acid Battery Tail Relocation _____
- (xiii) Aft Cargo Door Open Warning _____
- (xiv) AHCA Cargo Mirror (RH) - Not Electric _____
- (xv) Pilot Co-Pilot Cup Holder _____

- (e) Steps and Exterior Requirements;**
- (i) Tail Rotor Protection _____
- (ii) Thermal paint in the engine exhaust area _____
- (iii) Dart tungsten carbide welded skid shoes – full length _____
- (iv) Main rotor blade tie-down kit _____
- (v) Full length passenger step _____
- (vi) Dart long step (maintenance step) _____

(f) Com Nav and Electrical Requirements;

- (i) Pilot cockpit intercom mute _____
- (ii) Digital Clock _____
- (iii) NVG Certification _____
- (iv) Digital Audio System _____
- (v) LED Position/Strobe Light Mounts to the existing Position Light _____
- (vi) Co-pilot Transmit Switch (Drop Chord) _____
- (vii) Universal Radio Adapter with Bluetooth - _____
- (viii) SD Datacard Radar Altimeter Enablement _____
- (ix) 12 Volt Power Connector _____
- (x) Switch / Circuit to turn off all exterior lighting (lights out operations) _____
- (xi) 28 Volt Power Connector (Spider Tracks) _____

(g) Mission Equipment;

- (i) MX-10 forward mount/Cable kit and Installation/Dovetail mount _____
- (ii) Two (2) - Installed TDFM9000 _____
- (iii) Video Monitors and Installation Front 17" and Rear TFO Station _____
- (iv) PA System and Installation (loudhailer) _____
- (v) Searchlight with Mount and Installation - Trakka (slave option) _____

- (vi) Installation of Equipment Rack for Mission Equipment _____
- (vii) Evidence Recorder and Installation of Atom 2 (Shotover) _____
- (viii) Installation of Churchill Mapping System ARS-750 (Shotover) _____
- (ix) Vislink Downlink Steerable Array Antenna with Mount. _____
- (x) Thermal Imager airframe mount installation to be compatible with MX-10 Series

- (xi) Airbus Power by the Hour (PBH or Hcare) _____
- (xii) Safran Service by the hour (SBH) _____