FORM A: BID
(See B8)

1. Contract Title — SUPPLY AND DELIVERY OF A TACTICAL BOMB DISPOSAL SPECIALTY VEHICLE

2. Bidder

_____
Name of Bidder

_____
Usual Business Name of Bidder as it appears on Invoice (if different from above)

_____
Street

_____
City Province Postal Code

_____
Email Address of Bidder

_____
Facsimile Number

(Mailing address if different)

_____
Street or P.O. Box

_____
City Province Postal Code

_____
GST Registration Number (if applicable)

The Bidder is:

(Choose one)

☐ a sole proprietor

☐ a partnership

☐ a corporation

carrying on business under the above name.

3. Contact Person — The Bidder hereby authorizes the following contact person to represent the Bidder for purposes of the Bid.

_____
Contact Person Title

_____
Telephone Number Facsimile Number

_____
Email Address

4. Definitions — All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions and D3.

5.	Offer	The Bidder hereby offers to perform the Work in accordance with the Contract for the price(s), in Canadian funds, set out on Form B: Prices, appended hereto.
6.	Commencement of the Work	The Bidder agrees that no Work shall commence until he/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.
7.	Contract	By submitting a bid in response to this Tender, the Bidder certifies that it has read, understands, and agrees to the terms and conditions of this Tender and that the Tender, in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.
8.	Addenda	The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract: No. _____ Dated _____ _____ _____ _____ _____
9.	Time	This offer shall be open for acceptance, binding and irrevocable for a period of sixty (60) Calendar Days following the Submission Deadline.
10.	Indigenous Self-Declaration	The City is requesting that Bidders identify if their business is at least 51% owned by one or more Indigenous persons of Canada. ☐ YES, 51% or more Indigenous ownership ☐ NO, it is not This information is being gathered for statistical purposes only and will not be used for purposes of evaluation.

11. Signatures

The Bidder or the Bidder's authorized official or officials have signed this

_____ day of _____ , 20_____ .

Signature of Bidder or
Bidder's Authorized Official or Officials

_____

_____
(Print here name and official capacity of individual whose signature appears above)

_____

_____
(Print here name and official capacity of individual whose signature appears above)

FORM B: PRICES
(See B9)

SUPPLY AND DELIVERY OF A TACTICAL BOMB DISPOSAL SPECIALTY VEHICLE

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Tactical Bomb Disposal Specialty Vehicle	19013	Each	1	

_____
Name of Bidder

FORM N: DETAILED SPECIFICATIONS 19013

TACTICAL BOMB DISPOSAL SPECIALTY VEHICLE

1. INTENT

1.1 It is the intent of these specifications to describe a nominal 22'L x 8.5'W specialty body suitable for use as a bomb disposal vehicle including other equipment as described herein. The bomb disposal body shall be installed on a Class 7 crew cab and chassis vehicle to be supplied by the Contractor (see Cab & Chassis Specifications).

1.2 The bomb disposal body shall be the manufacturer's latest model, as may be modified by these specifications. The tactical bomb disposal vehicle, 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.

1.3 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these 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.

1.4 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.

2. OTHER SPECIFICATIONS AND STANDARDS

2.1 All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning minimum acceptable standards.

2.2 The complete bomb disposal vehicle shall comply with the applicable regulations:

- Manitoba Highway Traffic Act
- Canadian Motor Vehicle Safety Standards, CMVSS Transport Canada
- National Safety Mark, NSM
- Manitoba/Winnipeg Safety and Health Act, Parts 12, 22
- Canadian Standards Association, CSA
- Under Writers of Canada, U/L
- Society of Automotive Engineers, SAE

2.2 All welding and welding designs of the load supporting elements shall conform to the requirements of the Canadian Standards Association Standard (CSA) W47.1-03 and W59-03.

2.3 The completed unit shall include a Manitoba Government Inspection with Safety Sticker on the driver's side window.

2.4 The completed vehicle shall be complete with a National Safety Mark, NSM.

2.4.1 **State** NSM Number: _____

3. QUALIFICATIONS OF MANUFACTURER

3.1 The manufacturer of the bomb disposal body shall have a minimum of five (5) years continuous experience manufacturing and installing emergency services bodies and equipment of the type being offered. The manufacturer shall have in effect a complete and documented quality control program ensuring the compliance with all applicable standards.

4. QUALIFICATIONS OF THE BIDDER

4.1 The Bidder shall be a manufacturer or authorized distributor/supplier of customized truck bodies and specialty equipment bodies.

4.2 For the purposes of Warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or major portion thereof, shall be dedicated to the installation, service, and maintenance of customized specialty bodies and equipment being offered.

4.3 Further to B11, Bidders shall provide a description of the facility including, but not limited to, number of qualified staff, years of service experience on specialty bodies, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

5. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

5.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders 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.

5.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

6. REFERENCES

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

_____
_____
_____
_____
_____

7. CREW CAB AND CHASSIS SPECIFICATIONS

7.1 **STATE YEAR, MAKE AND MODEL BEING BID:**_____

	GVWR		
7.2	Total	33,000 lbs.	_____
7.3	Front	12,000 lbs.	_____
7.4	Rear	21,000 lbs.	_____
	Chassis Dimensions		
7.5	Cab-to-axle	170 in. approx., suitable for 22 ft. bomb disposal body, **state** CA	_____
7.6	Wheelbase	280 in. approx., suitable for 22 ft. bomb disposal body, **state** WB	_____
	Engine		
7.7	Type	Diesel engine, Tier IV, **state** make, model and displacement	_____
7.8	Horsepower	300 hp approx., **state**	_____

7.9	Torque	860 lbf-ft approx., **state**	_____
7.10	Engine shut down	Low oil pressure / high water temperature	_____
7.11	Air intake warmer	Required	_____
7.12	Fuel shut-off	Electric solenoid type	_____
7.13	Air cleaner	Dry type	_____
7.14	Air intake restriction ind.	Dash mounted restriction indicator	_____
7.15	Oil drain plug	Magnetic type	_____
7.16	Oil filter	Full flow, spin-on or cartridge type	_____
7.17	Fuel filter	Spin-on or cartridge type	_____
7.18	Fuel/water separator	Heated, drainable, mounted under hood, located to be protected from road spray	_____
7.19	Block heater	Immersion type, 750 Watt with plastic, covered recessed male plug, located under driver's side door	_____
7.20	Coolant	Extended life coolant, antifreeze to -35°F (-37°C)	_____
7.21	Coolant hoses	Silicone type, Gates Blue Stripe or Premium type hoses	_____
7.22	Fan Drive	Thermostatically controlled, automatic type	_____
7.23	Air compressor	Water cooled, pressure lubricated, 13 cfm	_____
	Electrical System		
7.24	Alternator	270 Amp, **state** make and model	_____
7.25	Starter	Delco Remy 38MT HD or equivalent	_____
7.26	Batteries	Three (3), 12-volt, group 31, 2250 CCA combined capacity	_____
7.27	Battery Box	Under cab c/w enclosure, readily accessible	_____
7.28	Battery disconnect	In-cab mounted, **state** location	_____
7.29	Remote boost terminal	Remote battery boost terminal(s), protected from road spray, covered, **state** location	_____
7.30	Cab marker lights	LED	_____
7.31	Back-up alarm	Required, 97 dBA, located on inside-rear of frame rails	_____
7.32	Accessory switches	Six (6) required, dash mounted for body installation, labelled and backlit	_____
7.33	Radio circuit	Independent 20 Amp, 2-way radio circuit, ignition powered, wired under dash loose, labelled	_____
	Exhaust System		
7.34	Configuration	Single horizontal muffler with horizontal tailpipe	_____
	Transmission		
7.35	Model	Allison 3000 or 3500 EVS Series, **state** model	_____
7.36	Shift selector	Push button electronic shift control	_____
7.37	Cooling	Water to oil transmission cooler	_____
7.38	PTO provision	Required with maximum clearance from exhaust	_____
7.39	Oil level dipstick	Bayonet type with high and low level markings	_____

7.40	Trans. drain plug	Magnetic type	_____
	Front Axle		
7.41	Capacity	12,000 lbs. capacity	_____
	Rear Axle		
7.42	Capacity	21,000 lbs. capacity	_____
7.43	Ratio	For 110 km/hr top speed, **state** ratio	_____
7.44	Differential lock	Required for rear drive axle w/dash mtd. switch	_____
	Front Suspension		
7.45	Type	Taper leaf spring suspension, 12,000 lbs. capacity	_____
	Rear Suspension		
7.46	Type	Air ride suspension, 21,000 lbs. capacity, **state** make and model of suspension being bid	_____
7.47	Susp. control valve	Manual dump valve for air suspension c/w dash mtd. switch and indicator light	_____
7.48	Auto refill	Required at 5 km/hr	_____
	Rims, Wheels, Hubs		
7.49	Front	22.5 x 8.25 polished aluminum, 10-bolt, hub piloted	_____
7.50	Rear	22.5 x 8.25 polished aluminum, 10-bolt, hub piloted	_____
7.51	Hubs	Aluminum hubs, front and rear	_____
7.52	Hub seals	Oil lubricated front and rear	_____
7.53	Wheel nut indicators	Required on every second wheel nut, front and rear	_____
	Tires, front		
7.54	Size	11R 22.5	_____
7.55	Make & model	Michelin XZE, Goodyear G662 RSA or equivalent 14-ply tires, **state** tires	_____
	Tires, rear		
7.56	Size	11R 22.5	_____
7.57	Make & model	Michelin XDE M/S, Goodyear G182 or equivalent 14-ply tires, **state** tires	_____
	Frame		
7.58	Type	Single or double rail, to match GVWR, 1,000,000 in.-lbs. RBM, outside frame clear	_____
7.59	Application	Suitable for use with a 22 ft. bomb disposal body	_____
7.60	Chassis fasteners	Grade-8 threaded hex headed frame fasteners or huck-spin fasteners	_____
7.61	Afterframe	As required for bomb disposal body installation, 100 in. approx., **state**	_____
	Steering		
7.62	Type	Power	_____
	Brakes		
7.63	Type	Hydraulic, ABS, power with optional air supply	_____
7.64	Air drier	Wabco System Saver 1200, heated	_____
7.65	Moisture ejector	Bendix DV-2, heated, required in wet tank	_____

7.66	Drain valves	Manual, chain or cable operated, required on each air tank	_____
7.67	Parking brake	Dash mounted air operated parking brake knob	_____
	Fuel Tanks		
7.68	Type	Dual aluminum, 300 L combined capacity approx., fully fuelled upon delivery	_____
7.69	Tank straps	Steel mounting straps with $^{1}/_{16}$ in. rubber or neoprene isolators	_____
7.70	Fuel separator	Heated, drainable, c/w primer pump	_____
7.71	DEF tank	Diesel exhaust fluid tank, 22-30 L approx., state size and location	_____
	Cab		
7.72	Type	Conventional type, aluminum or steel w/corrosion inhibitor	_____
7.73	Hood	Fibreglass tilt	_____
7.74	Cab mounts	Air suspension	_____
7.75	Cab interior/trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab. Door panels to include storage pockets	_____
7.76	Cab silencer package	Required for minimal decibel level	_____
7.77	Hood/Firewall/Engine	Insulated hood liner, engine cover and firewall	_____
7.78	Floor covering	Rubber mat with under-padding	_____
7.79	Floor mats	Two (2), rubber	_____
7.80	Driver seat	High back, air suspension w/foldable right hand armrest, seat belt, heavy-duty cloth upholstery, Cordura or equal, **state** material	_____
7.81	Passenger seat	High back, air suspension w/foldable left hand armrest, seat belt, heavy-duty cloth upholstery, Cordura or equal, **state** material	_____
7.82	Sun visors	Dual flip-up type	_____
7.83	Steering wheel	Tilt type	_____
7.84	12-Volt power outlet	Required	_____
7.85	Radio	Factory installed AM/FM with Bluetooth® capability, auxiliary input and USB port	_____
7.86	Starter switch	Key operated c/w four (4) sets of keys	_____
7.87	Interior light	Dome light with driver and passenger door switches	_____
7.88	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of -35°F (-37°C)	_____
7.89	Air conditioning	Required	_____
7.90	Brake & accel. pedals	Hanging type brake and accelerator pedals	_____
7.91	Horn	Dual electric	_____
7.92	Exterior mirrors	Dual West Coast, stainless steel or polycarbonate, 7" x 14½" approx.	_____

7.93	Convex mirrors	6 in. aux., stainless steel, mtd. below West Coast mirrors, or integral type with polycarbonate mirrors, one (1) per side	_____
7.94	Downview mirror	Located over passenger door, 5" x 4" approx.	_____
7.95	Windows & windshield	Tinted	_____
7.96	Windshield wipers	Electric, intermittent	_____
7.97	Windshield washers	Electric	_____
7.98	Grab handles	Dual exterior with rubber inserts	_____
7.99	Entrance steps	Dual each side, open grate / grip type	_____
7.100	Winter front	Heavy-duty vinyl w/twist lock or snap type fasteners	_____
	Instrumentation		
7.101	Oil pressure	Gauge	_____
7.102	Coolant temperature	Gauge	_____
7.103	Transmission oil temp.	Gauge	_____
7.104	LOP/HWT	Warning light and buzzer	_____
7.105	Voltmeter	Gauge	_____
7.106	Air reservoir pressure	Gauge with LAP warning light and buzzer	_____
7.107	Engine hourmeter	Required, non-resettable type	_____
7.108	PTO hourmeter	Required, non-resettable type	_____
	Tow Hooks		
7.109	Location	Front mounted	_____
	Front Bumper		
7.110	Type	Chrome, full width c/w license plate provision	_____
	Colour and Finish		
7.111	Exterior	White	_____
7.112	Interior	Dark grey or black	_____
7.113	Frame & suspension	Primed and finished with black Imron 5000 paint or equivalent	_____
	Accessories		
7.114	Flare kit	Three (3) triangular reflectors, CVSA approved	_____
7.115	Fire extinguisher	5 lb. ABC type, required in cab with mounting bracket	_____
7.116	First aid kit	Required, Provincial 1 approved kit, supplied loose	_____
	Manuals		
7.117	Operator’s manual	Required, one (1) per vehicle	_____
7.118	Parts/Repair/Service	Required, including preventative maintenance schedules for life of unit, USB or online manuals preferred	_____
	Warranty		
7.119	Chassis warranty	The Contractor shall provide all detailed published Warranty information (including all exclusions) at the time of delivery of the equipment. **State** the following:	

7.120	Basic vehicle	**State**	_____
7.121	Batteries	**State**	_____
7.122	Drivetrain	**State**	_____
7.123	Cab structure/corrosion	**State**	_____
7.124	Frame & crossmembers	**State**	_____
7.125	Cab paint	**State**	_____
7.126	Engine	**State**	_____
7.127	Towing coverage	**State**	_____
7.128	Transmission	**State**	_____
7.129	Axles, front & rear	**State**	_____
7.130	Exhaust system	**State**	_____

8. TACTICAL BOMB DISPOSAL BODY

8.1 **STATE YEAR, MAKE AND MODEL BEING BID:**_____

9. BODY DIMENSIONS

9.1 Body length, interior (measured to front wall) – 22 ft. approx., **state** length. _____

9.2 Body width, exterior – 100 in. approx., **state**. _____

9.3 Body height, interior – 82 in. approx., **state** height. _____

9.4 Floor height – 40 in. approx., **state** height. _____

9.5 Rear drop section – the rear 5 ft. of the body, aft of the rear wheels shall include a “drop” section of approximately 20 in. lower than the floor level. _____

9.6 Overall height – **state.** _____

10. TRUCK BODY, EXTERIOR

10.1 Exterior sidewall material – modular body constructed of aluminum, fully welded into an integral structure or aluminum snap lock panels. **State** body construction method. _____

_____

_____

10.2 Roof material – capable of supporting two (2) people of average weight of 200 lbs., covered with diamond plate or equivalent for added support and increased traction. **State** roof construction materials. _____

_____

_____

10.2.1 Roof rail – 6 in. height around perimeter. _____

10.2.2 Roof access ladder – rear mounted to allow access to roof c/w a locking hinged cover to prevent unwarranted roof access. _____

10.2.3 Framing in roof for Air Conditioning unit and roof vent. _____

10.3 Body frame – welded tubular steel or aluminum cage. _____

10.4 Floor frame – welded steel or aluminum floor frame and mounting plates c/w heavy duty cross members. _____

10.4.1 Rear drop frame – 20 in. approx. aft of rear wheels. Space to be used for storage and transport of bomb disposal robot weighing 550 lbs. _____

10.5 Floor crossmembers, front – HSS 3"x2"x.125" steel tubing or equivalent on 16 in centres. **State** material. _____

10.5.1 Floor crossmembers, rear – HSS 2"x2"x.125" steel tubing or equivalent on 16 in centres. **State** material. _____

10.6 Floor longsills – structural C-channels or equivalent. **State** material.

10.7 Exterior skirting below floor – 20 in. approx. _____

10.8 Mudflaps – no-name, black rubber type with stainless steel bar anti-sail brackets, installed at front and behind rear tires. _____

10.9 Rear bumper – full width, heavy-duty step bumper, 14 in. depth c/w a grip strut step surface and tapered ends. Exact bumper design and dimensions to be discussed at a pre-production meeting. _____

10.9.1 Bumper shall be bolted to chassis frame and to van body, structurally reinforced and fastened with Grade 8 fasteners. Mounting height shall provide a 17-19 in. step height from ground level. _____

10.10 Wheel wells – shall include stainless steel wheel liners. _____

10.11 Frame and body frame to be primed with a suitable rust inhibitor primer. _____

10.12 Insulation, floor – 2-3 in. of spray foam, urethane or equivalent on underside of floor. _____

10.12.1 Insulation, walls and ceiling – 2 in. Styrofoam SM insulation or equivalent. _____

11. EXTERIOR COMPARTMENTS, DOORS AND EQUIPMENT

11.1 For the purpose of these specifications:

L – Length, along or parallel to chassis frame rails.
H – Height or vertical.
D – Depth on horizontal plane across chassis.

Exterior Compartments – General

11.2 Weather stripping – bulb type automotive style for all doors and compartments. _____

11.3 Drip mouldings – required above each door opening where applicable. _____

11.4 Compartment door handles – stainless steel paddle type handles or D-ring, Tri-Mark, Eberhard or equivalent. _____

11.5 Door keys – four (4) sets required, keyed alike where available. _____

11.6 Compartment door hardware – chrome or stainless steel with adjustable striker plates. _____

11.7 Rubber bumpers required on exterior door compartments where applicable. _____

Driver Side, front to back

11.8 Compartment 1, diesel generator compartment – suitable sized to accommodate a 5 kW Onan diesel generator, mounted on a slide-out tray. Compartment shall be sufficiently insulated. Door(s) to be louvered, vertically hinged, lockable. Fuel for the generator shall be supplied from truck fuel tank. **State** make and model of generator being bid. _____

11.9 Compartment 2, under floor battery compartment – 28"L x 22"H x 24"D approx., c/w a slide-out tray for batteries. Tray to be lined with neoprene liner. Door to be louvered, vertically hinged, lockable. _____

11.10 Compartment 3 – located under floor in front of wheels, 40"L x 22"H x 24"D approx. c/w one (1) vertical center divider. Door to be vertically hinged and lockable. _____

11.11 Compartment 4 – located aft of rear wheels, 45"L x 60"H x 26"D approx. with locking Amdor roll-up door. Right side of compartment to be outfitted with a rack for six (6) SCBA bottles, sloped downwards c/w rubber liners. Bottle dimensions are 7" diameter x 24" long. _____

Passenger Side, front to back

11.12 Entry door – located near front of body, 36"L x 90"H approx., right side hinged, c/w three (3) inside steps, middle step to have a 12 in. deep storage box with ½ in. plywood lining. _____

11.12.1 Door locks/handles – stainless steel or nickel plated paddle style handle or heavy duty refer style handle/latch, lockable. **State** type. _____

11.12.2 Grab handles – two (2) large grab handles with rubber inserts, ergonomically located for entry and egress. _____

11.12.3 Window – approx. 12"L x 18"H fixed, tinted window c/w applicable safety markings. _____

11.12.4 Door stay – approx. 150° heavy duty mechanical door check, suitable for high winds. _____

11.13 Compartment 5 – located under floor in front of wheels, 57"L x 22"H x 24"D approx. c/w four (4) vertical dividers. Floor to be lined with a $^{1}/_{16}$ in. rubber floor liner. Door to be vertically hinged, louvered and lockable. _____

11.14 Ramp door – 42"W x 78"H approx. on passenger side rear drop section, capable of loading/unloading a tracked robot weighing 550 lbs. Roll-Camlock design with two (2) large grab handles. Bottom of door to include three (3) or four (4) heavy duty stainless steel hinges. Surface of ramp to be anti-slip aluminum grip strut with two (2) rubber bumpers on the outside top to protect door from ground. _____

12. INTERIOR LAYOUT

12.1 Interior height – 80 in. approx., **state** height. _____

12.2 Floor material – ¾ in. marine grade plywood in front and rear dropped floor. _____

12.2.1 Interior floor covering – heavy duty smooth black rubber floor or equivalent seamless non-skid flooring. The joints where the floor and cabinets/wall meet shall roll up 90 degrees to prevent seepage of fluids under the cabinets/wall. _____

12.2.2 **State** any floor design options and corresponding price. _____

_____

_____

12.3 Ceiling and side wall material – white, moisture and impact resistant fibreglass reinforced plastic panels or equivalent, **state** material. _____

12.4 Insulation – cavities between the interior and exterior body panelling and doors shall be filled with R8 insulation. Flooring shall have an R5 insulation value. _____

12.5 Fire extinguisher – one (1) 5 lb. ABC type installed in the rear area. Exact location to be determined at pre-production meeting. _____

Front Interior Wall

12.6 Walkthrough – entryway to cab area c/w rubber boot and finished fabric into cab. Sliding door sliding towards road side with non-locking handle. _____

12.7 Blast box cabinet – approx. 34"W x 24"D x full-height cabinet facing rearwards, i.e., alongside the front portion of the entry steps. Blast box to meet federal standards. _____

12.7.1 Top portion of the cabinet to include two (2) height adjustable shelves @ 2 in. increments, a 2 in. lip on each shelf, and an Ambor roll-up door. _____

12.7.2 Lower portion to include two (2) aluminum doors latched in the center. An approx. 24"W x 17"H x 17"D Blast Box shall be mounted in the cabinet. The Blast Box shall meet federal standards and shall be constructed on all six (6) sides of ¼ in. steel plate with $^{7}/_{8}$ in. Armortex lining, a ¼ in. plywood liner, and another inside liner of ¼ in. steel. The top shall be rear hinged with heavy duty steel hinges including a hasp for a padlock c/w lock protector. Steel flanges on either ends shall be provided to bolt the Blast Box down to the floor. _____

Driver Side, front to back

12.8 Cabinet 1 – approx. 30"L x 76"H x 30"D with a side-hinged door. Cabinet to be equipped with four (4) height adjustable shelves at 2 in. increments. Shelves to have a 3 in. lip and shall have room for communication equipment. _____

12.9 Work counter – approx. 36"L x 40"H x 30"D, arborite finish work surface. Space above work counter shall be used for electrical panels and controls including cabinet(s) with 12V and 110V duplexes/outlets. Lower section to include two (2) aluminum doors latched in the center. The lower

section shall include a second Blast Box as described in 11.3.2. All doors above and below work counter to be of same size. _____

12.10 Cabinet 2 – approx. 40"L x 76"H x 30"D with locking Amdor roll-up door. Cabinet to be equipped with four (4) height adjustable shelves at 2 in. increments. Shelves to have a 3 in. lip and shall be lined with rubber matting. _____

12.11 Cabinet 3 – identical to cabinet 2. _____

12.12 Locker – approx. 33"L x 76"H x 30"D with heavy duty hanging bar for storage and transportation of bomb suits. The locker shall include a locking Amdor roll-up door. _____

12.13 Storage compartment – located above exterior compartment 4 on the inside of the van body. 55"L x 22"H x 30"D approx. with two (2) bottom hinged doors. Top of storage compartment to include a 3 in. lip. _____

Passenger Side, front to back (aft of entrance door)

12.14 Workbench – 94"L x 40"H x 30"D approx. with non-sparking white arborite finish workbench top. Below left shall be a framed opening for an approx. 70L 120V refrigerator and a single pull-out drawer directly above. To the right of the refrigerator shall be a double door, framed area approx. 44"L c/w louvers in doors for a water tank c/w a 2 in. high aluminum drip pan. Directly above the double doors shall be two (2) pull-out drawers, side-by-side, 8"H approx.. To the right of the water tank area shall be a 4-drawer, stacked drawer set approx. 22”L with varying heights. Exact heights to be discussed at a pre-production meeting. _____

12.15 Above workbench, left to right – two (2) dual door framed-in cupboard sections, 30"L x 26"H x 16"D approx. each c/w one (1) height adjustable shelf per section. Remaining area above workbench shall accommodate a microwave oven with an aluminum shelf with a 2 in. lip above the microwave. Shelf to be lined with rubber matting. _____

12.16 Heater cabinet – framed heater cabinet above wheelwell with removable faceplate for servicing, approx. 10"H. _____

12.17 Cabinet 4 – 32"L x 72"H x 30"D approx. with locking Amdor roll-up door. Full width height adjustable shelf with 2 in. increments and a 2 in. lip. Shelf initially installed at approx. 12 in. from ceiling. Additional equipment to include two (2) duplex receptacles, a 21 in. TV monitor and DVD player mounted to wall with a bracket(s), a coax outlet and S-video receptacles wired to TV outlet on the rear wall. _____

Rear wall

12.18 Television – rear wall mounted, facing forward, securely mounted, with bracket and protective shield, 48 in. LCD flat screen with multiple HDMI inputs/outputs. _____

13. ELECTRICAL & LIGHTING

13.1 All vehicle lighting shall conform to C.M.V.S.S. (latest revision) and Manitoba Highway Traffic Act requirements. _____

13.2 Supplier installed lighting to be LED Whelen, Truck-Lite or equivalent. _____

13.3 Brake light – two (2) Whelen M Series. _____

13.4 Turn signal flash rate – two (2) Whelen M Series. _____

13.5 Back-up lights – two (2) Whelen M Series. _____

13.6 3-light cluster – three (3) 2½ in. lights c/w mounting grommets. _____

13.7 Clearance lights – 2½ in. clearance lights c/w mounting grommets. _____

13.8 Licence plate lamp – LED c/w license plate bracket. _____

13.9 Lighting harnesses – all harnesses shall be internally grounded, properly routed and secured, protected from damage. _____

13.10 Junction box – Truck-Lite P/N 50400 or equivalent, complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame, protected from road debris including all harness connections. _____

13.11 All plug in connectors shall be coated with a di-electric grease or anti-corrosion compound prior to assembly. _____

13.12 Antennas and specialty cabling – the City of Winnipeg will supply five (5) antennas and cabling to be installed by Contractor on vehicle roof. Access ports required for servicing antennas. Additional structural metal required for antenna ground plates. Exact locations and terminations to be discussed at pre-production meeting. _____

Note: Antennas and specialty cabling are the only City of Winnipeg supplied equipment.

13.13 Warning lights, body mounted – seven (7) red Whelen M-Series and seven (7) blue Whelen M-Series lights with chrome flanges, alternating flash patterns, mounted as follows:

i) Front facing – one red, one blue on front section. _____

ii) Rear facing – two red, two blue. _____

iii) Side facing, driver's side – two red, two blue. _____

iv) Side facing, passenger side – two red, two blue. _____

13.14 Warning lights, grille mounted – four (4) Whelen ION Series, two red, two blue, front facing in truck grille. _____

13.15 Warning lights shall be wired "hot" (i.e., able to use without the key on), wired through a single, chassis manufacturer's OEM dash mounted switch, labelled "Warning Lights" with a permanent type label. _____

13.17 Siren package – required with speaker, including one full function hands free siren, one (1) Whelen SA315 series with speaker bracket. _____

13.18 Scene lights/flood lights – six (6) Whelen M9 Series, two per side, two rear mounted. _____

13.19 All switches and warning lights shall be identified with permanent engraved type labels or chassis manufacturer's OEM labels. No labels allowed on

upper surface of dash. _____

13.20 Interior lights – continuous Luma Bar LED lighting in rear drop section, under passenger side cabinets, under electrical cabinet and two (2) continuous strips along main isle way. LED step lights required in passenger side entrance steps. _____

13.21 Generator – Onan QD 5000 quiet diesel generator installed in Compartment 1. The generator shall have a remote start feature, accessible from the interior of the vehicle. _____

13.22 Body load disconnect switch – required. _____

13.23 Electrical package – 120V, 30-Amp including 110V inlet, 30 ft. shore power cord c/w auto eject, 50-Amp electrical box, 50-Amp main breaker and 50-Amp transfer switch. _____

13.24 Converter – 120V to 12V, 30 Amp with charger. _____

13.25 Wiring access panels – covered bulkhead/access panels running along driver's and passenger's side interior near roof for the purpose of running cabling after build is complete. _____

13.26 Duplex receptacles, interior – twelve (12) required with locations to be outlined in the Contractor's pre-production drawings. The receptacles shall be GFI, CSA approved. _____

13.27 Duplex receptacles, exterior – one (1) located in Compartment 3 and one (1) located on passenger's side near front of body. _____

13.28 Deep cycle batteries – two (2) Trojan 6V batteries joined in series and securely mounted in Compartment 2 c/w power level indicator mounted in electrical cabinet on driver's side. Batteries to be charged from the truck alternator or the shoreline converter. _____

13.29 Roof mounted power vents – two (2) ceiling mounted, 3-speed fan, reversible airflow with controls. _____

13.30 Back-up camera – rear mounted c/w 7 in. dash mounted screen, Zone Defence 323 or equivalent. _____

13.31 12 Volt lines – two (2) 12V lines to mast area wired to switch by ramp door for up/down of mast. _____

13.32 Communications cable – required from computer cabinet (Cabinet 4) to mast area. _____

13.33 Master disconnect switch – to disable all electrical systems for repair or long-term storage. **State** location. _____

13.34 All wiring installed by body manufacturer/installer (including accessories, work lights, etc.) shall be colour coded, loomed, properly secured and protected from damage. _____

13.35 All electrical connectors shall be crimped & soldered, then sealed with heat shrink tubing. _____

13.36 All joining of wires shall be soldered and sealed using heat shrink tubing (crimp-on electrical connectors for joining wires are not acceptable). _____

13.37 Any holes required to run wires through body, cab, steel sections, etc. shall be drilled (not punched), grommeted and sealed. _____

14. INSTALLATION

14.1 Mounting of the body shall be in accordance with the chassis manufacturer's guidelines for body mounting including, but not limited to, guidelines for tire and suspension clearance. _____

14.2 Welding to truck chassis frame is not permitted. _____

14.3 Mounting brackets shall be bolted to chassis frame using Grade-8 fasteners. _____

14.4 Any holes required in chassis frame web must be drilled and reamed to fit bolts. _____

14.5 All non-continuous body seams (joints) shall be caulked with an automotive grade elastomeric sealant. _____

14.6 Departure angle of completed unit – 12° approx. **State** angle. _____

14.7 Overall height decal – engraved type, installed in chassis cab. _____

14.8 Isolators – all interfaces between aluminum and steel are to be separated by $^{1}/_{16}$ in. thick rubber or neoprene sheet to prevent galvanic corrosion. Bolts used on aluminum or between aluminum and steel shall be bolted through with stainless steel bolts and non-conductive bushings. _____

15. MISCELLANEOUS

15.1 Robot antenna – curbside body mount for a portable robot antenna including a mounting plate between 5-6 ft. from ground with a covered plug wired to inside of vehicle. Mounting plate must be adjustable to the height of the roof. _____

15.2 Interior heaters – Espar heating system or equivalent, as recommended from body manufacturer for extreme cold climate. Two (2) additional electric base board heaters or fan style electric heaters are also required. **State** details of heating package being bid including makes and models of heaters. _____

_____

15.3 Roof mounted Air Conditioner – one (1) 13,500 BTU, ducted with remote thermostat. **State** make and model being bid. _____

15.4 Carbon monoxide monitor – required. _____

15.5 Front console – manufacturer's recommended console including backlit, rocker type switches. Details of the proposed console to be discussed at pre-production meeting. _____

15.6 Mounting rails – roof mounted for the use of a ceiling mounted antenna. _____

15.7 Escape hatch – roof mounted, **state** dimensions and actuation details. _____

_____

_____

15.8 Rope rings – four (4) heavy duty rope rings in dropped floor area and eight (8) mounted in exterior of roof. Exact locations to be determined at a pre-production meeting. _____

15.9 Microwave – mounted in microwave shelf. _____

15.10 Refrigerator – 120V fridge as specified under passenger side workbench. _____

15.11 Water tank – 200 L approx. mounted in water tank cabinet including:

i) 2 in. drain line with valve plumbed through floor. _____

ii) 2 in. aluminium coupler with plug for over flow drain. _____

iii) 1 in. supply line to water pump and ball valve plumbed to open fitting. _____

iv) City water fill in curb side exterior wall to fill water tank. _____

v) Site glass on side for capacity gauge. _____

15.12 Air compressor – 120V air compressor with small air tank c/w 15 ft. hose, mounted in left side of Compartment 3. _____

15.13 Rear mast – EM40 telescoping mast mounted to rear wall and bumper including:

i) 25 lb. capacity / 103.75 in. _____

ii) Hand winch. _____

iii) Mast powder coated white to match cab. _____

iv) Bumper mount. _____

v) WCA-E261NR PTZ colour camera, 26X zoom, stabilizer. _____

vi) PTZC20 controller for camera. _____

vii) NC40 30 ft. NyCoil coiled plastic cable management. _____

viii) 12VDC motor upgrade for mast with limit switches. _____

16. COLOUR AND FINISH

16.1 Van body – shall be painted white to match chassis cab with two (2) coats of polyurethane enamel, Dupont Imron, Akzo Sikkens or equivalent. _____

16.2 Roof – coated with a black spray-on non-skid coating on walking area. **State** type. _____

16.3 Floor, underside – steel and aluminum sections of deck, sub-frame and under body shall be undercoated with an asphalt and rubber based material, Proform or equivalent, applied as per manufacturer's recommendations. _____

16.4 Rear bumper – black powder coated finish. _____

16.5 Aluminum or stainless steel components, unfinished. _____

17. TECHNICAL DOCUMENTS AND MANUALS

17.1 Bidders shall provide the following, within five (5) Business Days upon request of the Contract Administrator:

17.1.1 Three (3) view drawings showing complete unit including chassis, body and interior views. _____

17.1.2 Estimated front and rear axle weights of the complete unit (chassis, body, etc. including full fuel, full water tank and two operators). _____

17.1.3 Service facility description. _____

17.1.4 Body to frame mounting plans. _____

17.2 Prior to final inspection the Contractor shall provide the following;

a) Weigh scale ticket of the completed unit, fully fuelled, including two (2) operators. _____

b) Operator's manuals for cab & chassis and Onan generator – two (2) sets required. _____

c) Parts and maintenance manuals – two (2) sets required with the following comprising a set:

i) Maintenance manual. _____

ii) Unit parts book. _____

iii) Electric wiring diagram (as built) of the completed unit. _____

NOTE: The manuals supplied with this Contract must be in English and shall be specifically for the unit supplied. General purpose manuals are not acceptable. Contract will not be considered complete until these sets of manuals have been delivered. Manuals must be supplied at the time the unit is delivered. USB format preferred.

17.3 Bidder shall provide information on any manuals that are available in an electronic format.

_____

_____

_____

18. DELIVERY

18.1 The completed unit shall be serviced, ready for operation and delivered F.O.B with the freight prepaid to the City of Winnipeg, Winnipeg Fleet Management Agency, 185 Tecumseh Street, Winnipeg, Manitoba within **fifty-two (52) calendar weeks** from the date of award. The Contractor shall contact the Contract Administrator prior to delivery of the equipment. Equipment shall be delivered within 8:00 am and 3:00 pm on Business Days. _____

18.2 A pre-delivery inspection shall be performed by the Contractor on all equipment. _____

18.3 The Contractor shall contact the Contract Administrator prior to delivery

of the equipment. _____

19. PERFORMANCE RELIABILITY

19.1 The responsibility for the design of the complete I-DENT vehicle, its performance, and reliability shall rest upon the Contractor. _____

19.2 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, or 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 schedules. _____

19.2.1 Where the vehicle develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance. _____

20. WARRANTY

20.1 The warranty on the cab & chassis is listed above in 7.119 – 7.130

20.2 The Contractor shall provide all detailed published warranty information (including all exclusions) at the time of delivery of the equipment. **State** the following warranties:

20.3 Body, exterior – **state**. _____

20.4 Body, interior – **state**. _____

20.5 Mast and related equipment – **state**. _____

20.6 Electrical, lighting, etc. – **state**. _____

20.7 Generator – **state**. _____

20.8 Finish, i.e., paint, gelcoat, powder coat, etc. – **state**. _____

20.9 Provide details on any extended Warranty coverage available. _____

_____ _____

_____ _____

_____ _____