

PART A

BID SUBMISSION

FORM A: BID
(See B7)

1. Project Title SUPPLY & DELIVERY OF A TRAILER MOUNTED POTHOLE
PATCHING MACHINE

2. Bidder

Name of Bidder

Street

City

Province

Postal Code

(Mailing address if different)

Street or P.O. Box

City

Province

Postal Code

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

e-mail address

4. Definitions

All capitalized terms used in the Contract shall have the meanings
ascribed to them in the General Conditions and D3.1 unless the context
otherwise requires.

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 is in receipt of
a Purchase Order authorizing the commencement of the Work.

7. Contract

The Bidder agrees that the Bid Opportunity 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 Submission.

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. Signatures

In witness whereof 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 B8)

SUPPLY & DELIVERY OF A TRAILER MOUNTED POTHOLE PATCHING MACHINE

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX QTY	UNIT PRICE	AMOUNT
1	Trailer Mounted Pothole Patching Machine	07001	Each	3	\$ _____	\$ _____
2	Operator's Manual for Item 1	07001	Each	4	\$ _____	\$ _____
3	Parts, Repair and Technical Service Manuals/CDs for Item 1	07001	Set	2	\$ _____	\$ _____
TOTAL BID PRICE (GST and PST extra) (in figures) \$ _____ (in words) _____ _____ _____						

 Name of Bidder

FORM N: DETAILED SPECIFICATIONS 07001

TRAILER MOUNTED POTHOLE PATCHING MACHINE *(Street Maintenance)*

1.0 TYPE

- 1.1 Shall be a trailer-mounted pothole patching machine with equipment and features as specified herein. The unit shall be the manufacturer's latest model.
- 1.2 The unit shall be furnished complete and ready for use. All parts not specifically mentioned, but which are required to complete and place the unit in successful operation, shall be furnished as though specifically mentioned in these specifications. The complete unit, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.3 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 unit.
- 1.4 The ratings specified herein merely state the minimum values acceptable to the City. There is no intent of implying that these values are sufficient for the design of the unit being bid.

2.0 STANDARDS

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The completed unit and all its components shall comply with all C.M.V.S.S. and Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.

3.0 QUALIFICATIONS OF MANUFACTURER / CONTRACTOR

- 3.1 The Contractor shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the equipment being offered. Further to B9.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience on trailer-mounted pothole patching equipment, and general service capabilities. A description of the service facility shall be provided within 3-Calendar Days upon request of the Contract Administrator.
- 3.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that warranty work be performed by the City of Winnipeg Repair Facilities. Any work performed by City of Winnipeg Repair Facilities shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed (for example, shop rate for 2007: \$80.00/hr regular time, \$105.00/hr overtime and callout).

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 4.1 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 shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

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

5.0 PERFORMANCE

5.1 Shall be capable of consistent top performance for transporting, heating and dispensing asphalt material, and making permanent asphalt repairs during the spring, summer and fall environments which are normal to the City of Winnipeg. _____

5.2 The machine shall be capable of continuously heating both liquid emulsion and asphalt 24-hours per day, 7-days a week if so desired, i.e., heating asphalt material to a temperature of 150°C (300°F) and heating liquid asphalt to a temperature of 121°C (250°F) in both working/transport mode and off-hours/storage mode. _____

6.0 MAKE AND MODEL

6.1 State make and model of unit being bid. _____

7.0 WEIGHT AND DIMENSIONS

7.1 Weight – state weight of completed unit, less asphalt and tack oil. _____

7.1.1 Weight – state weight of completed unit with full load of asphalt and full tack oil tank. _____

7.2 Overall length – state. _____

7.3 Overall width – state. _____

7.4 Overall height – state. _____

8.0 HOPPER

8.1 Type – steel construction, fully insulated. _____

8.2 Dimensions – 284cm L x 152cm H x 198cm W (112"L x 60"H x 78"W) approx.. _____

8.3 Capacity – 4.6 m³, 8.2 tonne (6 yd³, 9-ton) capacity minimum. _____

8.4 Insulation – fully insulated with minimum 5 cm (2 in.) of high temperature, 12R factor insulation encased in a double steel jacket. _____

8.5 Hopper doors – dual top doors, fully insulated with minimum 5 cm (2 in.) of insulation, hydraulically operated with controls accessible from ground level. _____

8.6 Auger – approx. 3m L x 15 cm diameter (10'L x 6" diameter) progressive screw type conveyor, hard surfaced flights, continuously welded, reversible with control at operator's work station. _____

8.7 Delivery chute – designed for ergonomic shovelling of patching mix, minimum 90° of pivoting. _____

8.8 Agitator – full hopper length, hydraulically driven, reversible with control at operator’s station. _____

9.0 LIQUID ASPHALT

9.1 Tank capacity – 450 L (118 US Gal) minimum, state capacity. _____

9.1.1 Construction – double steel jacket with minimum 5 cm (2 in.) of R12 insulation. _____

9.2 Liquid asphalt pump and all lines shall be in an insulated, heated area with a hot well for storing spray wand in cold weather. _____

9.3 Liquid asphalt hand sprayer – 1.5m x 9.5mm (5' x 3/8") wand, equipped with fan nozzle and deadman control valve, 4.6m x 12.7mm (15' x 1/2") hose, reversible pump and diesel flush system for cleaning pump and lines. _____

9.4 Hose reel – spring loaded, auto-retractable, mounted at rear of unit. _____

10.0 HEATING SYSTEM

10.1 The unit shall be thermostatically controlled, capable of continuous heating of asphalt material to a temperature of 0-150°C (0-300°F). _____

10.2 Transport/operating mode – the hopper body and the tack oil tank shall be heated either by:

- 1) Heat transfer oil system including a minimum 900 L (238 US Gal) tank, propane fired burner(s), two (2) horizontally mounted 190 L (50 US Gal) propane bottles, an electronic ignitor w/safety shut-off on loss of flame, and a thermostatically controlled circulating pump.

OR

- 2) Electrically powered by an on-board, 230 V electric generator. State details of working hours (transport mode) heating method. _____
- _____
- _____
- _____

10.3 After hours power source – 230 V heating elements or 230 V immersion heater, capable of keeping the asphalt material heated during non-working hours. _____

10.4 Tack oil thermostat – 0-120°C (0-248°F). _____

10.5 All thermostats shall have built in high limit safety shut down switches. _____

10.6 Temperature gauges – two (2) stainless steel gauges that constantly monitor the temperature of the asphalt hopper and road oil tank. _____

11.0 ENGINE

11.1 Type – diesel engine, 19 kW (25 hp) min. liquid cooled, 12 V electric start. _____

11.1.1 State make and model of engine being bid. _____

11.2 Air intake warmer or glow plug system. _____

11.3 Engine shutdown – oil pressure shutdown required. _____

11.4 Alternator – 20 Amp min., state. _____

11.5 Battery – 650 CCA min.. _____

11.6 Ignition keys – three (3) sets required. _____

11.7 Fuel tank – 57 L (15 US Gal) fuel tank min., fully fuelled upon delivery. _____

11.8 Engine hourmeter – required, non-resettable type. _____

11.9 Throttle – electronic, located at passenger side rear of unit. _____

12.0 HYDRAULICS

12.1 Oil reservoir – approx. 100 L (26 US Gal) capacity c/w sight gauge, temperature gauge vented fill cap, sump strainer and replaceable return line filter. _____

12.2 Hydraulic pump – state make, model, type, capacity and pressure rating. _____

12.3 Hydraulic hoses and fittings – min. 8000 psi burst pressure. _____

12.4 Control valve(s) – rated for system pressure, suitable for controlling hydraulic screw conveyor/auger, hydraulic doors, asphalt agitator, and liquid asphalt pump. _____

12.4.1 Valve shall have an internal safety design that will not allow the screw conveyor or asphalt agitator to operate when the doors are open. _____

13.0 TRAILER

13.1 Configuration – tandem axle with dual wheels on each axle. _____

- 13.2 Gross trailer weight rating (GTWR) – state. _____
- 13.3 Suspension – leaf spring suspension, rated for GTWR. _____
- 13.4 Rims – eight (8) 1-piece steel rims, 16 in. diameter approx., state size. _____
- 13.5 Tires – 14-ply min., 235/85R16 approx., state size, make and model. _____
- 13.6 Frame, long sills and cross sills – heavy duty, all welded steel construction, consisting of I-beam and rectangular tubing. State details of frame and construction. _____

- 13.7 Deck construction – heavy-duty steel deck, state gauge and material. _____
- 13.8 Drop leg jack – spring loaded, hand crank adjustable, 4536 kg (10,000 lbs.) capacity min.. _____
- 13.9 Hitch assembly – pintle style hitch, to match GTWR. _____
- 13.10 Safety chains and eye hooks – shall conform with CMVSS and Manitoba Highway Traffic Act. Eye hooks to be complete with spring closures. _____
- 13.11 Brakes – ABS air brakes on both axles, c/w air lines and quick couplers to rear of tow vehicle. _____
- 13.12 Fenders – steel or aluminum fenders with approx. 10 cm (4 in.) wheel clearance. _____
- 13.13 Electrical and lighting:
 - 13.13.1 Combination stop, turn and taillights – Truck-Lite P/N 44302R, two (2) per side with 40700 mounting grommets, fully enclosed in steel module box enclosures. _____
 - 13.13.2 Light cluster – three (3) Truck-Lite P/N 10250R with P/N 10700 mounting grommets, located to be protected from damage. _____
 - 13.13.3 Clearance lamps – Truck-Lite P/N 10250Y with P/N 10700 mounting grommets. _____
 - 13.13.4 Licence plate lamp – Truck-Lite P/N 15040, complete with licence plate bracket. _____
 - 13.13.5 Harnesses – Truck-Lite 50 Series Harness system, properly routed and secured. _____

- 13.13.6 Junction box – P/N 50400, complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame.

- 13.13.7 All plug-in connectors shall be coated with Truck-Lite NYK compound prior to assembly.

- 13.13.8 Warning light – Preco 7611A, pedestal mount, c/w fused on/off switch, labelled with a permanent type, engraved style label.

- 13.13.9 Light board – Whelen model TA1652L c/w backboard and controller, mounted to back of unit.

- 13.13.10 Trailer connector – 7-pole, Truck-Lite 97159 or equal, wired to code.

- 13.13.11 All wiring for lights to be colour coded, loomed and properly secured front to rear.

- 13.13.12 All joining of wires and electrical connectors shall be soldered and sealed with heat shrink tubing.

- 14.0 MISCELLANEOUS**
- 14.1 Hand torch – 200,000 BTU with shut-off valve and 3m (10 ft.) of hose c/w torch hose reel.

- 14.2 Compactor lift platform – hydraulically operated lift platform for loading or unloading a City owned compactor. The platform shall be c/w a safety latch in the “up” position for use with compactor holding brackets. Controls shall be rear mounted, easily accessible by operator.

- 14.3 Air compressor – hydraulically driven, self contained, 25 CFM @ 125 psi c/w quick couplers, 6.1m (20 ft.) of air hose, blow gun with deadman control valve, min. 5-gallon air tank, relief valve, and spring loaded, auto retractable hose reel.

- 14.4 Diesel fuel / releasing agent storage tank – minimum 69 L (18-gallon) capacity tank, equipped with a pump, 1 in. drain and hand sprayer for cleaning tools and unit. Shall utilize a connector valve for flushing road oil pump and lines.

- 14.4.1 Diesel fuel hose reel – spring loaded, auto retractable reel c/w 6.1m (20 ft.) of hose and spray wand.

- 14.5 Tack oil hose reel – spring loaded, auto retractable reel c/w 4.6m (15 ft.) of hose.

- 14.6 Drip pan – 38 L (10-gallon) approx, mounted at rear of unit, suitable for collecting used waste oil.

- 14.7 Water tank – frame mounted, approx. 30 L (8-gallon) tank with valve and hose. Required to provide water supply for asphalt compactor plate.

14.8 Controls – all machine controls to be ergonomically located at the rear-passenger side of the unit.

14.9 Conspicuity tape – Grote 41070 or equal, installed on sides and rear of unit.

15.0 PAINT AND FINISH

15.1 All steel components (with the exception of inside of hopper) shall be sandblasted, properly cleaned, primed and finished as follows:

15.1.1 Primer – Endura EP32 Intermix Epoxy Primer.

15.1.2 Paint – 3-5 mils of Endura EX-2C Topcoat, black.

15.2 Wheels/rims – powder coated grey or argent.

16.0 WARRANTY

16.1 The Contractor shall warrant **all equipment** (excluding consumables) and all parts thereof, against any defects of workmanship, construction and materials, and agrees to repair or replace without cost to the City any article that has become defective and not proven to have been caused by negligence on the part of the user within **two (2) years or 2000 hours** from the date the equipment is put into service by the City of Winnipeg.

17.0 PERFORMANCE RELIABILITY

17.1 The responsibility for the design of the complete unit, its performance and reliability shall rest upon the Contractor.

17.2 The term "*repeat failures*" as used herein is defined to mean that the same component, assembly, or sub-assembly develops repeated defects, breakdowns and/or malfunctions rendering the unit inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, assembly, or sub-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.

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

18.0 MANUALS

18.1 The following manuals shall be supplied with the unit when delivered. Manuals shall be in English and shall cover the complete equipment.

18.2 Operator's manual – quantity as per Form B: Prices.

18.3 Parts, repair and technical service manuals including preventative maintenance schedules for life of the unit – CDs preferred, quantity as per Form B: Prices.

19.0 DELIVERY

19.1 The unit shall be serviced, ready for operation and delivery F.O.B. with the freight prepaid to the City of Winnipeg, Winnipeg Fleet Management Agency, 185 Tecumseh Street, Winnipeg, Manitoba within **twenty-six (26) calendar weeks** from the date of official notification of award of Contract. The Contractor shall contact the Contract Administrator prior to delivery of the equipment. Equipment shall be delivered within 8:00am and 3:00pm on Business Days.

19.2 The Contractor shall fax all equipment serial numbers, hours to the Contract Administrator one (1) calendar week prior to delivery.

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

20.0 TRAINING

20.1 Operator training – the Contractor shall be required to provide **two (2) Business Days** of training, in Winnipeg by qualified staff, for City of Winnipeg operating personnel. All costs associated with the training, shall be at the Contractor's expense. The training sessions shall be sufficient in duration and shall provide adequate familiarization and orientation of the equipment, to the satisfaction of the Contract Administrator. All particulars surrounding the specified time required to perform the training shall be provided to the Contract Administrator by the Contractor, one (1) week prior to the delivery of the completed equipment. The training shall be coordinated through the Contract Administrator.

20.2 Mechanical training – the Contractor shall be required to provide **two (2) Business Days** of training, in Winnipeg by qualified staff, for City of Winnipeg maintenance personnel. All costs associated with the training, shall be at the Contractor's expense. The training sessions shall be sufficient in duration and shall provide adequate familiarization and orientation of the equipment, to the satisfaction of the Contract Administrator. All particulars surrounding the specified time required to perform the training shall be provided to the Contract Administrator by the Contractor, one (1) week prior to the delivery of the completed equipment. The training shall be coordinated through the Contract Administrator.
