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|  | **SCHEDULE B – FORM OF QUOTATION** |

RFQ Title: SUPPLY AND DELIVERY OF TWO OR MORE RUBBER TIRED 4WD BACKHOE/LOADER

RFQ No: 1220-040-2018-015

**CONTRACTOR**

Legal Name:

Address:

Phone:

Fax:

Email:

**CITY OF SURREY**

TO:

City Representative: Richard D. Oppelt

 Purchasing Manager

Address: Surrey City Hall

 Finance & Technology Department – Purchasing Section

 Reception Counter, 5th Floor West

 13450 – 104th Avenue, Surrey, B.C., V3T 1V8

Telephone: 604-590-7274

Email: purchasing@surrey.ca

1. The Contractor offers to supply to the City of Surrey the Goods for the prices plus applicable taxes as follows:

Year, Make & Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

All costs to meet the minimum specifications shall be included in the following delivered prices.

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| RUBBER TIRED 4WD BACKHOE/LOADER AUTO GREASE UNIT |  | **$\_\_\_\_\_\_\_\_\_\_\_\_\_\_****$\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | SUB-TOTAL: | **$\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | GST: 5% = | **$\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  | PST: 7% = | **$\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **TOTAL QUOTED PRICE:** |  | **$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

**The completed unit shall be delivered within \_\_\_\_\_\_\_ days after receipt of purchase order.**

Complete Unit: State Warranty (no less than one (1) year)

Warranty repairs shall be performed at

Please complete if applicable: British Columbia Certified

Payment Terms:

A cash discount of \_\_\_\_\_\_\_\_ % will be allowed if the invoices is paid within \_\_\_\_\_\_\_ days, or the \_\_\_\_ day of the month following, or net 30 days, on a best effort basis.

**Please provide details and costs of available options available for this unit.**

Note: Contractors are directed to list complete manufacturers’ details of model proposed in the right-side column under manufacturers’ specifications

2. If this offer is accepted by the City, such offer and acceptance will create a contract as described in:

 (a) the RFQ;

 (b) the specifications set out above and in Schedule A of the RFQ;

 (c) the General Terms and Conditions; and

 (d) this Quotation; and

 (e) other terms, if any, that are agreed to by the parties in writing.

3. Capitalized terms used and not defined in this Quotation will have the meanings given to them in the RFQ. Except as specifically modified by this Quotation, all terms, conditions, representations, warranties and covenants as set out in the RFQ will remain in full force and effect.

4. I/We the undersigned duly authorized representatives of the Contractor, having received and carefully reviewed the RFQ including without limitation the Specifications and the General Terms and Conditions, submit this Quotation in response to the RFQ.

**This Quotation** is offered by the Contractor this \_\_\_\_\_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, 20\_\_\_.

CONTRACTOR

by its authorized signatory:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Legal Name of Contractor)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Signature of Authorized Signatory)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Print Name and Position of Authorized Signatory)

**This Quotation** is accepted by the City this \_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, 201\_.

**CITY OF SURREY**

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Signature of Authorized Signatory)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Print Name and Position of Authorized Signatory)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Signature of Authorized Signatory) | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Signature of Purchasing Representative\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Print Name of Purchasing Representative) |

|  |  |
| --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Print Name and Position of Authorized Signatory) |  |

**SCHEDULE B-1 – PREFERRED TECHNICAL SPECIFICATIONS RESPONSE FORM**

SUPPLY AND DELIVERY OF TWO OR MORE RUBBER TIRED 4WD BACKHOE/LOADER

The specification herein states the minimum requirements of the City of Surrey. All Quotations shall be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The City of Surrey will consider as "irregular" or "non-responsive" any Quotation not prepared and submitted in accordance with the RFQ document and specification, or any Quotation lacking sufficient technical literature to enable the City to make a reasonable determination of compliance to the specification.

It shall be the Contractor's responsibility to carefully examine each item of the specification. Failure to offer a completed Quotation or failure to respond to each section of the technical specification may cause the Quotation to be rejected without review as "non-responsive". All variances, exceptions and/or deviations shall be fully described in the appropriate section.

Note: Contractors are directed to list complete manufacturers’ details of model proposed in the right-side column under manufacturers’ specifications

| **Preferred** **Specifications** | **Yes****(Circle)** | **No****(Circle)** | **Manufacturers’ Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.** |
| --- | --- | --- | --- |
| 1. **ENGINE**
 |
| 1.1 Four Cylinder, turbocharged, isolation mounted diesel engine  | Y | N |  |
| 1.2 Engine shall be certified to EPA Tier 4 Final emissions or better | Y | N |  |
| 1.3 Engine shall have individually replaceable, wet-sleeve cylinder liner design | Y | N |  |
| 1.4 Engine displacement shall be no less than 4.5 liters  | Y | N |  |
| 1.5 Engine rated net peak power (ISO9249) shall be no less than (80 kW) @ 2000 rpm | Y | N |  |
| 1.6 Engine shall develop at least 317 lb-ft (430 Nm) net torque at 1400 rpm | Y | N |  |
| 1.7 Daily check points shall be accessible from the right side of the engine and shall be done from ground level | Y | N |  |
| 1.8 Engine shall have a serpentine belt with automatic belt tensioner  | Y | N |  |
| 1.9 Under-hood engine air cleaner shall be dry type, dual element with evacuator valve, restriction sensor and in-cab restriction warning light | Y | N |  |
| 1.10 The backhoe shall have an underhood after treatment device (DOC/DPF) with curved-end black (not chrome) exhaust stack | Y | N |  |
| 1.11 The backhoe shall have a tilt hood for easy engine access  | Y | N |  |
| 1.12 Primary fuel filter shall have no more than 30-micron rated primary filter with water separator | Y | N |  |
| 1.13 Secondary fuel filter shall have no more than a 2-micron rated filter | Y | N |  |
| 1.14 Engine will be equipped with a water-in-fuel sensor |  |  |  |
| 1. **Cooling**
 |
| 2.1 Engine coolant shall be rated to -40 degrees (-40C) | Y | N |  |
| 2.2 The backhoe shall be equipped with an oil-to-water engine oil cooler | Y | N |  |
| 2.3 Unit shall have a coolant recovery tank provided | Y | N |  |
| 2.4 Unit shall have an electronically-controlled, variable rate suction-type fan with guard for reduced HP draw, reduced fuel consumption and quieter operation | Y | N |  |
| 2.5 Foldout, hinged cooling system will allow for efficient clean out. | Y | N |  |
| 2.6 The hydraulic and transmission circuits will be water cooled  | Y | N |  |
| 1. **Power Train**
 |
| 3.1 The transmission shall be power shift with torque converter with road speed of 40km/h; clutch-free; fully synchronized five forward speeds (automatically shifts between 4th and 5th gears), minimum of three reverse speeds | Y | N |  |
| 3.2 Machines with an option of having an Auto shift Transmission available from the factory will be considered | Y | N |  |
| 3.3 The front axle will be mechanical-front-wheel-drive (MFWD) with traction control limited-slip differential with electric on/off control | Y | N |  |
| 3.4 The clutch engaged MFWD can be engaged on the fly during operation. | Y | N |  |
| 3.5 The machine will disengage MFWD in at road speeds of approximately 20 km/h to allow for longer life of tires and drive train, and reduced fuel consumption | Y | N |  |
| 3.6 Machine will automatically engage MFWD when brakes are applied for four wheel braking | Y | N |  |
| 3.7 The axle will be sealed with no breather to protect against contamination |  |  |  |
| 3.8 The transmission shall be isolation mounted to the mainframe to minimize shock load stress | Y | N |  |
| 3.9 The rear axle shall have a differential lock, electric foot-actuated as standard equipment | Y | N |  |
| 3.10 The operator can enable a differential lock protection in the monitor, which will not allow the differential lock to be engaged above 1000 rpm to prevent damage to components | Y | N |  |
| * 1. The single electric Transmission Control Lever will have gear selection fully integrated in the lever
 | Y | N |  |
| 3.12 Transmission oil cooler shall be provided as standard equipment | Y | N |  |
| 3.13 The backhoe shall have hydrostatic power steering with emergency manual mode | Y | N |  |
| 3.14 The machine will have a dial throttle that will allow the operator to road the machine on cruise control. Upon engagement of the brake pedal, the engine RPMs return to idle | Y | N |  |
| 3.15 The final drives shall be heavy-duty outboard planetary distributing loads over four gears sealed in cooling oil bath  | Y | N |  |
| 3.16 The front axle shall have remote grease bank for front axle for easy access. | Y | N |  |
| 3.17 The rear axle bearings shall be self-lubricating and shall not need to be greased  | Y | N |  |
| 3.18 The service brakes shall be inboard, wet-multiple disk, self-adjusting and self-equalizing and hydraulically actuated for a long and trouble-free life, sealed from water, mud and dust contamination | Y | N |  |
| 3.19 The parking brake shall be independent of service brakes, spring applied, hydraulically released, wet multi-disk, and sealed from water, mud and dust contamination. | Y | N |  |
| 3.20 Park brake will automatically apply when engine is shut off | Y | N |  |
| 1. **Hydraulic System**
 |
| 4.1 The hydraulic fittings shall have "O"-ring face seal connectors to secure a tight, leak-free seal | Y | N |  |
| 4.2 Hydraulic cooler will have an independent reservoir  | Y | N |  |
| 4.3 The hydraulic filter shall be no more than 6 micron and will be vertically mounted, spin on design for ease of installation and leak-free replacement | Y | N |  |
| 4.4 Machine shall be equipped with Auto Idle to lower rpm when hydraulics are not engaged | Y | N |  |
| 4.5 Machine shall be equipped with Economy Mode that can be activated, to provide the maximum productivity and maximum fuel efficiency in 1st & 2nd gears | Y | N |  |
| 4.6 An automatic bucket return-to-dig control will be standard | Y | N |  |
| 4.7 Hydraulic pump shall be an axial piston pump, pressure compensating, load sensing | Y | N |  |
| * 1. Machine shall be supplied with piping and hydraulic quick couplers for connecting a hoe pack – hoe back to be controlled by foot control and hydraulic “Pin Grabber”
 | Y | N |  |
| 1. **Electrical**
 |
| 5.1 The backhoe shall be12 volts with minimum 120 amp alternator | Y | N |  |
| 5.2 Single battery, 12 volt, 950 CCA, 190-min. rated reserve  | Y | N |  |
| 5.3 The machine shall have blade type, multi-fused circuits | Y | N |  |
| 5.4 The starter shall have a bypass start safety cover | Y | N |  |
| 5.5 Cab will be pre-wired for rotating beacon and 2 way radio-ready. The beacon shall have its own power supply and be switched. | Y | N |  |
| 5.6 Unit shall be equipped with 10 halogen driving/working lights, (4) front driving/working; (4) rear; (2) side docking lights. The front lights shall be adjustable. | Y | N |  |
| 5.7 Unit shall be equipped with a Telematics systems that can provide fleet management, logistics and remote diagnostics capabilities. Provide information and ongoing cost of system | Y | N |  |
| 5.8 Unit shall be equipped with two front and two rear turn signal/flashing and two rear stop and tail lights and two rear reflectors | Y | N |  |
| 1. **Cab**
 |
| * 1. Unit shall be equipped with isolation mounted modular design ROPS/FOPS cab and molded roof
 | Y | N |  |
| 6.2 Access to the cab shall be from both sides of the machine, with wide, rigid, self-cleaning steps, handles | Y | N |  |
| 6.3 3" retractable seat belt shall be provided – not 2” | Y | N |  |
| 6.4 Coat hook, built-in beverage holder, and two 12 volt outlets shall be provided | Y | N |  |
| 6.5 Unit shall be equipped with illuminated electronic gauges with audible warning for: engine coolant temperature, transmission oil temperature and fuel level. | Y | N |  |
| 6.6 The monitor system shall have audible and visual warnings: engine air restriction, low alternator voltage, engine oil pressure and temperature, hydraulic filter restriction, parking brake on/off, after treatment temperature, transmission oil temperature, fuel, hour meter and low brake pressure. The seat belt will have a digital warning.  | Y | N |  |
| 6.7 Machine will be equipped with a Sealed Switch Module for easy location of controls on the right hand console and increased durability | Y | N |  |
| * 1. There shall be a digital monitor for diagnostics (including diagnostic messages and fault code readings), calibrations and machine information.
 | Y | N |  |
| 6.9 Machine shall be enabled with Machine Security, enabled through the monitor. | Y | N |  |
| 6.10 Unit shall have digital display for: engine rpm, engine hours, system voltage. | Y | N |  |
| 6.11 The machine will have a cab air conditioner available from the factory. | Y | N |  |
| 6.12 Machine will have lockable storage inside of the cab | Y | N |  |
| 6.13 The seat shall be suspension vinyl swivel, with fully adjustable armrests and lumbar support. A cloth suspension seat option if available shall be offered | Y | N |  |
| 6.14 The machine shall one internal mirror and two external mounted mirrors (one either side) | Y | N |  |
| 1. **General Specifications**
 |
| 7.1 Vandal protection shall cover the instrument panel. Engine hood, toolbox, hydraulic reservoir, and fuel filler shall be lockable. | Y | N |  |
| 7.2 The tilt hood shall have two service positions for easy operation | Y | N |  |
| 7.3 An easy to read periodic maintenance and grease chart shall be posted at eye level prominently displayed on the frame. | Y | N |  |
| 7.4 Fuel tank capacity shall be sufficient to meet operational requirements and shall be accessible from the ground. Please state capacity in litres | Y | N |  |
| 7.5 Operating weight with full fuel tank, standard equipment including ROPS cab, 4N1 bucket, extend hoe with 24” bucket, including counter weight, shall be stated in kgs. Excessive weight causes excess wear on transport and towing vehicles and can cause problems in soft ground conditions. | Y | N |  |
| * 1. Fluid levels should be easily checked by sight gauges, dipsticks or overflow tank
 | Y | N |  |
| 7.7 Factory installed fluid sampling valves will be available from the factory | Y | N |  |
| 7.8 Auto greasing system to all grease points shall be provided – provide separate pricing | Y | N |  |
| 7.9 Unit shall have four built-in vehicle tiedowns, two in front and two in rear for safe transport between jobs | Y | N |  |
| 7.10 The side plate thickness on the loader boom, backhoe boom and mainframe shall be 4.5 mm or greater | Y | N |  |
| 7.11 Machine shall be equipped with an exterior mounted, ground level accessed and lockable storage compartment | Y | N |  |
| 7.12 Optional, replaceable, bolt-on rubber bumpers will be available to protect the grille frame for severe loading applications – please include cost | Y | N |  |
| 7.13 The machine shall be supplied with Nokian TRI 2 tires in all positions | Y | N |  |
| 1. **Backhoe**
 |
| 8.1 The backhoe with extendable dipper arm (retracted) shall have a digging depth of approximately 4.85 m | Y | N |  |
| 8.2 SAE digging depth with optional extendable dipper stick extended shall be no less than (6.1 m) | Y | N |  |
| * 1. Optional extendible dipper stick shall extend no less than 1.22 m
 | Y | N |  |
| 8.4 Lift capacity at ground level with standard dipper stick shall be no less than 1420 kg | Y | N |  |
| 8.5 The lift capacity at full height with standard dipper stick shall be no less than 1560 kg | Y | N |  |
| 8.6 There shall be swing lock pin  | Y | N |  |
| 8.7 The stabilizers will be equipped with anti-drift in both directions | Y | N |  |
| 8.8 The stabilizer shall have reversible pads  | Y | N |  |
| 8.9 The backhoe boom design shall be a power curve for loading into the center of the truck bed.  | Y | N |  |
| 8.10 The backhoe boom shall be an hourglass shape for maximum strength and optimized visibility to the work tool. | Y | N |  |
| 8.11 Digging force with standard backhoe, bucket cylinder shall be at least 14,801 lb (65.8 kN) | Y | N |  |
| 8.12 The backhoe shall be equipped with a rubber bumper/linkage style boom locks to keep the backhoe from vibrating on the swing frame | Y | N |  |
| 8.13 Unit shall be equipped with two lever mechanical (ISO) backhoe controls. | Y | N |  |
| 8.14 The machine will be available with factory installed pilot backhoe controls with pattern-selection feature | Y | N |  |
| 8.15 The swing casting shall have dual yokes: on top and on the bottom | Y | N |  |
| 8.16 Machine to be supplied with: * 1- 42” clean up bucket,
* 1 – 24” digging bucket, c/w cutting that fits to bucket teeth
 | Y | N |  |
| 8.17 All buckets to be hard surface welded | Y | N |  |
| 8.18 All buckets to have lifting hocks fitted for 3/8” chain | Y | N |  |
| 8.19 Buckets to come with provision for “Pin Grabber” quick coupler | Y | N |  |
| 8.20 Machine shall be supplied with hydraulically operated “Pin Grabber” quick coupler | Y | N |  |
| 1. **Loader**
 |
| 9.1 Lift Capacity with1.0 m³ bucket at full height shall be at least 3200 kg | Y | N |  |
| 9.2 Dump Clearance with bucket at 45 deg. shall be no less than 2.6 m | Y | N |  |
| 9.3 Bucket breakout force shall be no less than 10,300 lb (45.8 kN) | Y | N |  |
| 9.4 The loader shall have hydraulic self-leveling and bucket-level indicator. | Y | N |  |
| 9.5 The loader shall have divergent loader arms for excellent visibility to the bucket | Y | N |  |
| 9.6 A single lever with integrated proportional electrohydraulic control of auxiliary loader operation shall be available from the factory when machine is equipped with auxiliary hydraulics. Lever is also equipped with clutch disconnect, momentary MFWD and MFWD on/off. | Y | N |  |
| 9.7 The loader shall have a non-removable, hinged loader boom service lock. | Y | N |  |
| 9.8 The 4N1 bucket shall have bolt on cutting edges on the three edges that engage with the ground | Y | N |  |
| 9.9 The 4N1 bucket shall have three grab hocks welded to the top edge of the bucket | Y | N |  |
| 9.10 Buckets to be hard surface welded | Y | N |  |
| 1. **Warranty**
 |
| 10.1 Contractor to provide details on standard warranty coverage | Y | N |  |
| 10.2 Contractor to provide details and cost of extended machine warranty, including engine and emission systems | Y | N |  |
| 1. **Safety**
 |
| 11.1 Machine shall be supplied with: * 1- 2 lb fire extinguisher,
* 1 – No. 1 first aid kit,
* Audible back up alarm 98 dbh,
* Orange LED strobe light wired with its own switch and power supply
* Slow moving vehicle triangle
 | Y | N |  |
| 1. **Motor Vehicle Regulations**
 |
| 12.1 Backhoe must comply with government regulations and requirements which allow it to operate on roads and highways:* Federal Government Motor Vehicle Standards
* BC Motor Vehicle Act and Regulations
* BC Workers’ Compensation Board Regulations
* BC Emissions Standards
 | Y | N |  |
| **13. Miscellaneous** |
| 13.1 3 full sets of keys shall be provided | Y | N |  |
| 13.2 Manufacturer’s Certificate of Origin shall be provided | Y | N |  |
| 13.3 One complete Service Manual shall be provided | Y | N |  |
| 13.4 One complete Parts Manual shall be provided | Y | N |  |
| 13.5 A complete parts list shall be provided for belts, filters, and hoses | Y | N |  |
| 13.6 Fluid capacities in litres | Y | N |  |