|  |  |
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| P1232C1T4#yIS1 | SCHEDULE B – FORM OF QUOTATION |

RFQ Title: Supply and Delivery of One or More Excavators

RFQ No: 1220-040-2023-013

**CONTRACTOR**

**Legal Name:**

**Contact Person and Title:**

**Business Address:**

**Business Telephone:**

**Business Fax:**

**Business E-Mail Address:**

**CITY OF SURREY**

City Representative: Sunny Kaila, Manager, Procurement Services

E-mail for PDF Files: [purchasing@surrey.ca](mailto:purchasing@surrey.ca)

1. If this Quotation is accepted by the City, a contract will be created as described in:

(a) the Agreement;

(b) the RFQ; and

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

1. 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.
2. I/We have reviewed the RFQ Attachment 1 – Draft Quotation Agreement – Goods and Services. If requested by the City, I/we would be prepared to enter into that Agreement, amended by the following departures (list, if any):

**Section Requested Departure(s)**

1. The City requires that the successful Contractor have the following in place **before providing the Goods and Services**:
2. Workers’ Compensation Board coverage in good standing and further, if an “Owner Operator” is involved, personal operator protection (P.O.P.) will be provided,

Workers' Compensation Registration Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;

1. Prime Contractor qualified coordinator is Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

and Contact Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;

1. Insurance coverage for the amounts required in the proposed Agreement as a minimum, naming the City as additional insured and generally in compliance with the City’s sample insurance certificate form available on the City’s Website at [www.surrey.ca](http://www.surrey.ca) search [Standard Certificate of Insurance](http://www.surrey.ca/files/DCT_Standard_Certificate_of_Insurance_2014.docx);

(d) City of Surrey or Intermunicipal Business License: Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;

(e) If the Contractor’s Goods and Services are subject to GST, the Contractor’s GST Number is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; and

(f) If the Contractor is a company, the company name indicated above is registered with the Registrar of Companies in the Province of British Columbia, Canada, Incorporation Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

As of the date of this Quotation, we advise that we have the ability to meet all of the above requirements **except as follows** (list, if any):

**Requested Departure(s):**

1. The Contractor acknowledges that the departures it has requested in Sections 3 and 4 of this Quotation will not form part of the Agreement unless and until the City agrees to them in writing by initialing or otherwise specifically consenting in writing to be bound by any of them.

**Changes and Additions to Specifications:**

1. I/We have reviewed the RFQ Attachment 1, Schedule A – Specifications of Goods and Scope of Services. If requested by the City, I/we would be prepared to meet those requirements, amended by the following departures and additions (list, if any):

**Requested Departure(s)**

**Fees and Payments**

1. Contractors are encouraged to submit pricing based on the most recently available model year. The City will allow pricing adjustments based on price changes from the manufacturer. The Contractor will be expected to provide factory invoices to justify increases.

Please provide pricing on Sections 8 and 9 on the applicable excavators quoted.

As part of their Quotation(s), Contractors should submit Schedule B-1, and Schedule B-2 - Preferred Technical Specifications Response Forms (as applicable) by completing the spreadsheet’s third right-most columns.

1. For **2023 Reduced Tail Swing Excavator with an Operating Weight of Approximately 15,000 kgs**, the Contractor offers to supply to the City of Surrey the Goods and Services for the prices plus applicable taxes as follows:
   1. Year, Make & Model:
   2. Pricing:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **F.O.B. Destination Prepaid** | | **Payment Terms:**  A cash discount of % will be allowed if invoices are paid within days, or the day of the month following, or net 30 days, on a best effort basis. | | **Ship Via:** |
| **Item** | **Particulars** | | | **Cost per Unit**  **(CDN $)** |
| 1 | Unit Price for Approximately 15,000 kgs Reduced Tail Swing Excavator: | | | $ |
| 2 | Auto Grease Unit: | | | $ |
| 3 | Any Other Levies or Fees: | | |  |
|  | a.) | | |  |
|  | b.) | | |  |
|  | c.) | | |  |
| 4 | **Subtotal:** | | | $ |
| 5 | **GST (5%)** | | | $ |
| 6 | **PST (7%)** | | | $ |
| 7 | **TOTAL QUOTATION PRICE FOR ONE UNIT:** | | | **$** |
| ***Pricing is firm until (state date):*** | | |  | |
| ***ALL PRICING IN CANADIAN DOLLARS*** | | | | |

* 1. **The completed unit shall be delivered within days after receipt of Purchase Order.**
  2. Please indicate volume discounts where applicable:

|  |  |  |
| --- | --- | --- |
| **# Vehicles purchased** | **2** | **3** |
| **Discount (% or $)** |  |  |

* 1. Please complete if applicable: British Columbia Certified 
  2. Complete Vehicle: State Warranty (no less than one (1) year) \_
  3. Extended Warranty Options:
  4. Warranty repairs shall be performed at:
  5. In addition to the warranties provided in the Draft Quotation Agreement, this Quotation includes the following warranties:

* 1. Agreement, this Quotation includes the following warranties:

1. For **2023 Reduced Tail Swing Excavator with an Operating Weight of Approximately 8,000 kgs**, the Contractor offers to supply to the City of Surrey the Goods and Services for the prices plus applicable taxes as follows:
   1. Year, Make & Model:
   2. Pricing:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **F.O.B. Destination Prepaid** | | **Payment Terms:**  A cash discount of % will be allowed if invoices are paid within days, or the day of the month following, or net 30 days, on a best effort basis. | | **Ship Via:** |
| **Item** | **Particulars** | | | **Cost per Unit**  **(CDN $)** |
| 1 | Unit Price for Approximately 8,000 kgs Reduced Tail Swing Excavator: | | | $ |
| 2 | Auto Grease Unit: | | | $ |
| 3 | Any Other Levies or Fees: | | |  |
|  | a.) | | |  |
|  | b.) | | |  |
|  | c.) | | |  |
| 4 | **Subtotal:** | | | $ |
| 5 | **GST (5%)** | | | $ |
| 6 | **PST (7%)** | | | $ |
| 7 | **TOTAL QUOTATION PRICE FOR ONE UNIT:** | | | **$** |
| ***Pricing is firm until (state date):*** | | |  | |
| ***ALL PRICING IN CANADIAN DOLLARS*** | | | | |

* 1. **The completed unit shall be delivered within days after receipt of Purchase Order.**
  2. Please indicate volume discounts where applicable:

|  |  |  |
| --- | --- | --- |
| **# Vehicles purchased** | **2** | **3** |
| **Discount (% or $)** |  |  |

* 1. Please complete if applicable: British Columbia Certified 
  2. Complete Vehicle: State Warranty (no less than one (1) year) \_
  3. Extended Warranty Options:
  4. Warranty repairs shall be performed at:
  5. In addition to the warranties provided in the Draft Quotation Agreement, this Quotation includes the following warranties:

* 1. Agreement, this Quotation includes the following warranties:

**Time Schedule:**

1. Contractors should provide an estimated schedule, with major item descriptions and times indicating a commitment to provide the Goods and perform the Services within the time specified (use the spaces provided and/or attach additional pages, if necessary). Staggered delivery of units is acceptable permitted that Contractors approximate the quantity, and year and quarter the units are anticipated to be delivered in.

MILESTONE DATES \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0BACTIVITY | 1BSCHEDULE IN \_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
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| SAMPLE |  |  |  |  |  |  |  |  |  |  |
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**Experience, Reputation and Resources:**

1. Contractor's relevant experience and qualifications in delivering Goods and Services similar to those required by the Agreement (use the spaces provided and/or attach additional pages, if necessary):

1. Contractor's references (name and telephone number) (use the spaces provided and/or attach additional pages, if necessary). The City's preference is to have a minimum of three references. Previous clients of the Contractor may be contacted at the City’s discretion.

1. Contractors should identify and provide the background and experience of all key personnel proposed to provide the Goods and Services (use the spaces provided and/or attach additional pages, if necessary):

**Key Personnel**

|  |  |
| --- | --- |
| Name: |  |
| Experience: |  |
| Dates: |  |
| Project Name: |  |
| Responsibility: |  |

1. Contractors should identify and provide the background and experience of all sub‑contractors and material suppliers proposed to undertake a portion of the Goods and Services (use the spaces provided and/or attach additional pages, if necessary):

|  |  |  |  |
| --- | --- | --- | --- |
| *Description of Goods & Services* | *Sub-Contractors & Material Suppliers Names* | *Years of Working with Contractor* | *Telephone Number and Email* |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. I/We the undersigned duly authorized representatives of the Contractor, having received and carefully reviewed the RFQ and the Agreement, submit this Quotation in response to the RFQ.

**This Quotation** is offered by the Contractor this \_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, 2023.

**CONTRACTOR**

**I/We have the authority to bind the Contractor.**

(Legal Name of Contractor)

(Signature of Authorized Signatory) (Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory) (Print Name and Position of Authorized Signatory)

SCHEDULE B-1 – reduced tail swing excavator with an operating weight of approximately 15,000 kgs PREFERRED TECHNICAL SPECIFICATIONS Response Form

*Note: Other than entering data in the spaces provided, or including attachments as necessary, make changes to this form or submitting an alternate format is discouraged. If space is insufficient, additional pages may be added as necessary.*

These Specifications are the preferred Specifications necessary to establish functional and technical requirements. The Goods shall meet or exceed these Specifications. The City is relying on the Contractor to verify suitability and safety of materials, components, equipment, systems and items. Compatibility is of the essence and any modification, accessory, device, material or type of construction which may be necessary shall be considered to be a part of these Specifications whether detailed by item or not.

*(Note: Set out in detail how your technical and functional solution meets the Specifications. Clearly identify any variance with the Specifications including where conflicts or deviations may exist between your proposed solution and the Specifications or substitutions are recommended. If no substitutions, deviations or conflicts are identified, the City will consider that the equipment offered is in strict compliance with these Specifications.)*

Contractors are directed to list complete manufacturers’ details of model proposed in the right-most column under manufacturers’ specifications.

| **Preferred Technical Specifications Response Form** | **Yes**  **(Circle)** | **No**  **(Circle)** | **Manufacturers’ Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.** |
| --- | --- | --- | --- |
| 1. **MACHINE, MAKE AND MODEL** | | | |
| 1. State make and model | Y | N |  |
| 1. The machine shall be the current model, and shall be 2023 model year, older models or demonstration machines are not acceptable. State year of excavator. | Y | N |  |
| 1. **ENGINE** | | | |
| 1. Four Cylinder, turbocharged, isolation mounted diesel engine | Y | N |  |
| 1. Engine should be certified to EPA Tier 4 final | Y | N |  |
| 1. Engine displacement should be no less than 3 liters | Y | N |  |
| 1. Engine rated net peak power shall be no less than (100hp) @ 2000 rpm | Y | N |  |
| 1. Engine rated torque of no less than 250 lb ft @ 1800 rpm | Y | N |  |
| 1. Engine will have auto-idle mode to reduce engine speed when hydraulics are not in use to reduce fuel consumption and noise | Y | N |  |
| 1. The engine oil and fuel filters will be remotely mounted for ease of access | Y | N |  |
| 1. 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. Primary fuel filter will have no more than 5-micron rated primary filter with water separator | Y | N |  |
| 1. Secondary fuel filter will have no more than a 2-micron rated filter | Y | N |  |
| 1. Engine will be equipped with a water-in-fuel sensor | Y | N |  |
| 1. Engine should have the capability of running on ultra-low sulfur diesel | Y | N |  |
| 1. **COOLING** | | | |
| 1. Factory-fill long life coolant engine coolant shall be rated to -40 degrees (-40C) | Y | N |  |
| 1. The excavator should be equipped with an oil-to-water engine oil cooler | Y | N |  |
| 1. Unit shall have a coolant recovery tank provided | Y | N |  |
| 1. The radiator and oil cooler will be protected with a trash screen to protect against overheating | Y | N |  |
| 1. The hydraulic circuits will be water cooled | Y | N |  |
| 1. **POWER TRAIN** | | | |
| 1. The excavator should be two-speed with automatic shift from low to high with a high speed of 5.6 km/h | Y | N |  |
| 1. The hydraulic pilot levers will have short stroke and low effort to reduce fatigue. | Y | N |  |
| 1. The swing brake will be multiple wet disk, or equivalent, spring applied and hydraulically released | Y | N |  |
| 1. The propel brake should be spring applied and hydraulically released | Y | N |  |
| 1. Drawbar pull shall be approx. 26,000lbf. | Y | N |  |
| 1. **HYDRAULIC SYSTEM** | | | |
| 1. The hydraulic system will be open center, load sensing | Y | N |  |
| 1. Not less than two main implement pumps will be provided, and pumps will be variable displacement piston type, with a combined output of a minimum of 65 gpm Please provide details | Y | N |  |
| 1. Factory installed one way/two way; one pump/two pump high pressure hydraulics plus two-way medium pressure hydraulics should be available. Flow settings for up to 10 different hydra-mechanical tools will be capable of being programmed into the cab monitor to simplify tool selection/changes by the operator. | Y | N |  |
| 1. Boom and stick will have reduced drift valves fitted | Y | N |  |
| 1. Hose burst check valves shall be installed | Y | N |  |
| 1. An accumulator will be provided to allow the boom and stick to be lowered to the ground in the case of a dead engine. | Y | N |  |
| 1. Factory installed hydraulics to operate a hydraulic pin grabber shall be available | Y | N |  |
| 1. The machine shall be supplied with hydraulically operated “Pin Grabber” quick coupler | Y | N |  |
| 1. A boom and stick regeneration circuit will be standard to save energy during boom-down and stick-in operation | Y | N |  |
| 1. An auxiliary hydraulic valve will be standard for use with optional hydraulic circuits | Y | N |  |
| 1. Standard boom and sticks will have mounting accommodations/bosses already provided for auxiliary hydraulics lines | Y | N |  |
| 1. The machine shall be piped and have controls to operate a hydraulic compactor (hoepak) | Y | N |  |
| 1. **ELECTRICAL** | | | |
| 1. The electrical system should be 24 volt and alternator rating no less than 70 amp | Y | N |  |
| 1. Cab should have a 12 volt, and an auxiliary port for cell phone | Y | N |  |
| 1. Cab will be pre-wired for rotating beacon . The beacon will have its own power supply and be switched. That exact location of the beacon will be discussed with the successful Contractor. Preferred Whelen Mini Liberty II IT9AAAAP LED beacon (roof mounted) light head. | Y | N |  |
| 1. Machine shall have HID work lights available, two on the cab, one on the boom and one on the stick for greater visibility. | Y | N |  |
| 1. Unit will 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 |  |
| 1. Machine will be supplied with a remote “jump start receptacle” | Y | N |  |
| 1. **OPERATORS STATION** | | | |
| 1. Machine shall have a Certified ROPS cab meeting ISO 12117-2 specifications. | Y | N |  |
| 1. Machine shall have a ROPS Certified cab that allows an Operator Protective Guard (OPG) to be bolted directly to it. | Y | N |  |
| 1. Machine shall have FOPS (Falling Object Protection System) system without further cab reinforcement. | Y | N |  |
| 1. Vandal guard to be provided, provide details | Y | N |  |
| 1. The cab shall have an openable roof hatch to provide additional emergency escape path and clear visibility to overhead obstacles with a sunshade for operator comfort | Y | N |  |
| 1. The operator will be provided with a conveniently located tool to break the window in case of an emergency | Y | N |  |
| 1. Cab should have an automatic climate control system with outlets which provided positive filtered ventilation, with pressurized cab. | Y | N |  |
| 1. The A/C filters will be easy to replace with no special tools required and shall have extended replacement intervals | Y | N |  |
| 1. Machine shall have a 3” (75 mm) wide retractable seat belt as standard. | Y | N |  |
| 1. Cloth seat will be adjustable, with air suspension, headrest, adjustable lumbar support, and adjustable armrests | Y | N |  |
| 1. 4 position tilting consoles | Y | N |  |
| 1. System will retain and display active fault codes and incidents related to machine operating outside of the specified parameter | Y | N |  |
| 1. A colour monitor of approximately 7” will be provided | Y | N |  |
| 1. Machine will have a rear-view camera and a right-side camera available with the ability to view from the cab monitor. | Y | N |  |
| 1. Factory installed AM/FM stereo radio with Bluetooth antenna and two speakers should be standard. | Y | N |  |
| 1. The horn and travel alarm shall be operable while the machine is moving forward or in reverse | Y | N |  |
| 1. Rubber floor mat to be provided | Y | N |  |
| 1. External rear-view mirrors | Y | N |  |
| 1. Windshield wiper and washer | Y | N |  |
| 1. Storage compartments and cup holder | Y | N |  |
| 1. **BOOM, STICK, & ATTACHMENTS** | | | |
| 1. Boom length should be approx. 4.6 m | Y | N |  |
| 1. Arm length should be approx. 3.0 m and capable of operating a hoepack. | Y | N |  |
| 1. An Optional Heavy Counterweight should be specified. Please state weight | Y | N |  |
| 1. Machine shall have a Front Blade with a bolt-on cutting edge and with a hydraulic float capability to perform leveling operations. | Y | N |  |
| 1. Front Blade width of 2590 mm | Y | N |  |
| 1. The machine will be supplied with 24”, and 32” digging bucket, with smooth plate attached to bucket teeth for cleaning the bottom of trenches, and 54” clean up bucket, all with pins for a “pin grabber” quick hitch. | Y | N |  |
| 1. Certified lifting eyes shall be welded to the quick hitch, and all buckets. The eye shall have approx. 25 mm hole through the plate to accommodate a rated shackle.   P2006C285T12#yIS1 | Y | N |  |
| 1. A hydraulically operated “pin grabber shall be supplied and installed – preference given to factory supplied unit | Y | N |  |
| 1. A Groeneveld auto grease unit shall be supplied and installed | Y | N |  |
| 1. Digging depth to be no less than 19ft 6in | Y | N |  |
| 1. Stick digging force approx. 13,500lbf | Y | N |  |
| 1. A hydraulically operated “pin grabber shall be supplied and installed – preference given to factory supplied unit | Y | N |  |
| 1. **UNDERCARRIAGE** | | | |
| 1. Machine should be supplied with long track frame option for improved stability | Y | N |  |
| 1. Machine will have as standard equipment, Grease Lubricated Sealed Track Chains | Y | N |  |
| 1. Track and carrier rollers will be lubricated for life | Y | N |  |
| Rubber bolt on crawler pads will be bolted to the track shoes to match 20 inch triple grouser shoes (clamp type are not acceptable) See attached below. Other options are not acceptable.  P2055C322T12#yIS1 | Y | N |  |
| 1. Machine will have as standard equipment a Swivel Guard. | Y | N |  |
| 1. Machine will have as standard equipment a Towing Eye on the base frame. | Y | N |  |
| 1. Machine will have 4 certified “tie down eyes” (2 each side) on the track frame |  |  |  |
| 1. **WARRANTY** | | | |
| 1. Contractor to provide details on standard warranty coverage | Y | N |  |
| 1. Contractor to provide details and cost of extended machine warranty, including engine and emission systems | Y | N |  |
| 1. **Safety** | | | |
| 1. Machine shall be supplied with,    * 1- 2 lb fire extinguisher,    * 1 – No. 1 first aid kit,    * Audible travel alarm approximately 98 dbh, | Y | N |  |
| 1. **Motor Vehicle Regulations** | | | |
| 1. Excavator 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 |  |
| 1. **Miscellaneous** | | | |
| 1. 3 full sets of keys will be provided | Y | N |  |
| 1. Manufacturer’s Certificate of Origin shall be provided | Y | N |  |
| 1. The Contractor shall deliver the vehicles, registered, insured, and plated as per the City’s insurance requirements through the City’s insurance broker. | Y | N |  |
| 1. One complete Service Manual will be provided | Y | N |  |
| 1. One complete Parts Manual will be provided | Y | N |  |
| 1. A complete parts list will be provided for, belts, filters, and hoses | Y | N |  |
| 1. Fluid capacities in litres, and oil types (specifications) | Y | N |  |
| 1. Contractor to provide operator and mechanical orientation of the machine to City staff. | Y | N |  |
| 1. **VENDOR INFORMATION** | | | |
| 1. The vendor shall provide details of the location of their service and parts facility | Y | N |  |
| 1. The vendor shall provide details on the size/number of repair/service bays at their facility | Y | N |  |
| 1. The vendor shall supply the number of qualified red seal heavy duty mechanics with the experience to repair and maintain the equipment being offered in this document | Y | N |  |
| 1. The vendor shall provide details of the number excavators as quoted in the RFQ currently operating in the lower mainland, and the number currently operated by Municipalities. | Y | N |  |
| 1. The vendor shall provide details of the number of spare part items (SKU’s) on hand and the value of parts for the machine(s) quoted in this RFQ | Y | N |  |
| 1. The vendor shall provide details of the location of parts locations that they can draw from in BC, Canada and the US, if parts are not available from their local parts location | Y | N |  |
| 1. The vendor shall provide three references from municipalities who are currently operating equipment quoted in this document | Y | N |  |

**- END OF PAGE -**

SCHEDULE B-2 – reduced tail swing excavator with an operationg weight of approximately 8,000 kgs PREFERRED TECHNICAL SPECIFICATIONS Response Form

*Note: Other than entering data in the spaces provided, or including attachments as necessary, make changes to this form or submitting an alternate format is discouraged. If space is insufficient, additional pages may be added as necessary.*

These Specifications are the preferred Specifications necessary to establish functional and technical requirements. The Goods shall meet or exceed these Specifications. The City is relying on the Contractor to verify suitability and safety of materials, components, equipment, systems and items. Compatibility is of the essence and any modification, accessory, device, material or type of construction which may be necessary shall be considered to be a part of these Specifications whether detailed by item or not.

*(Note: Set out in detail how your technical and functional solution meets the Specifications. Clearly identify any variance with the Specifications including where conflicts or deviations may exist between your proposed solution and the Specifications or substitutions are recommended. If no substitutions, deviations or conflicts are identified, the City will consider that the equipment offered is in strict compliance with these Specifications.)*

Contractors are directed to list complete manufacturers’ details of model proposed in the right-most column under manufacturers’ specifications.

| **Preferred Technical Specifications Response Form** | **Yes**  **(Circle)** | **No**  **(Circle)** | **Manufacturers’ Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.** |
| --- | --- | --- | --- |
| 1. **MACHINE, MAKE AND MODEL** | | | |
| 1. State make and model | Y | N |  |
| 1. The machine shall be the current model, and shall be 2023 model year, older models or demonstration machines are not acceptable. State year of excavator. | Y | N |  |
| 1. **ENGINE** | | | |
| 1. Four Cylinder, turbocharged, isolation mounted diesel engine | Y | N |  |
| 1. Engine shall be certified to EPA Tier 4 final | Y | N |  |
| 1. Engine displacement should be no less than 2.2 liters | Y | N |  |
| 1. Engine rated net peak power should be no less than (53hp) @ 2000 rpm | Y | N |  |
| 1. Engine rated torque of no less than 140 lb ft @ 1800 rpm | Y | N |  |
| 1. Engine will have auto-idle mode to reduce engine speed when hydraulics are not in use to reduce fuel consumption and noise | Y | N |  |
| 1. The engine oil and fuel filters will be remotely mounted for ease of access | Y | N |  |
| 1. 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. Primary fuel filter will have no more than 5-micron rated primary filter with water separator | Y | N |  |
| 1. Secondary fuel filter will have no more than a 2-micron rated filter | Y | N |  |
| 1. Engine will be equipped with a water-in-fuel sensor | Y | N |  |
| 1. Engine should have the capability of running on ultra-low sulfur diesel | Y | N |  |
| 1. **COOLING** | | | |
| 1. Factory-fill long life coolant engine coolant should be rated to -40 degrees (-40C) | Y | N |  |
| 1. The excavator should be equipped with an oil-to-water engine oil cooler | Y | N |  |
| 1. Unit shall have a coolant recovery tank provided | Y | N |  |
| 1. The radiator and oil cooler will be protected with a trash screen to protect against overheating | Y | N |  |
| 1. The hydraulic circuits will be water cooled | Y | N |  |
| 1. **POWER TRAIN** | | | |
| 1. The excavator should be two-speed with automatic shift from low to high with a high speed of 5 km/h | Y | N |  |
| 1. The hydraulic pilot levers shall have short stroke and low effort to reduce fatigue. | Y | N |  |
| 1. The swing brake will be multiple wet disk, or equivalent, spring applied and hydraulically released | Y | N |  |
| 1. The propel brake will be spring applied and hydraulically released | Y | N |  |
| 1. Drawbar pull should be approx. 13,400 lbf. | Y | N |  |
| 1. **HYDRAULIC SYSTEM** | | | |
| 1. The hydraulic system will be open center, load sensing | Y | N |  |
| 1. Not less than two main implement pumps will be provided and pumps will be variable displacement piston type, with a combined output of a minimum of 39 gpm. Please provide details | Y | N |  |
| 1. Factory installed one way/two way; one pump/two pump high pressure hydraulics plus two-way medium pressure hydraulics should be available. Flow settings for up to 10 different hydra-mechanical tools will be capable of being programmed into the cab monitor to simplify tool selection/changes by the operator. | Y | N |  |
| 1. Boom and stick will have reduced drift valves fitted | Y | N |  |
| 1. Hose burst check valves shall be installed | Y | N |  |
| 1. An accumulator shall be provided to allow the boom and stick to be lowered to the ground in the case of a dead engine. | Y | N |  |
| 1. Factory installed hydraulics to operate a hydraulic pin grabber shall be available | Y | N |  |
| 1. The machine shall be supplied with hydraulically operated “Pin Grabber” quick coupler | Y | N |  |
| 1. A boom and stick regeneration circuit will be standard to save energy during boom-down and stick-in operation | Y | N |  |
| 1. An auxiliary hydraulic valve shall be standard for use with optional hydraulic circuits | Y | N |  |
| 1. Standard boom and sticks will have mounting accommodations/bosses already provided for auxiliary hydraulics lines | Y | N |  |
| 1. The machine shall be piped and have controls to operate a hydraulic compactor (hoepak) | Y | N |  |
| 1. **ELECTRICAL** | | | |
| 1. The electrical system should be 24 volt and alternator rating no less than 50 amp | Y | N |  |
| 1. Cab should have a 12 volt, and an auxiliary port for cell phone | Y | N |  |
| 1. Cab will be pre-wired for rotating beacon. The beacon will have its own power supply and be switched. That exact location of the beacon will be discussed with the successful Contractor. Preferred Whelen Mini Liberty II IT9AAAAP LED beacon (roof mounted) light head. | Y | N |  |
| 1. Machine shall have HID work lights available, two on the cab, one on the boom and one on the stick for greater visibility. | Y | N |  |
| 1. Unit will 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 |  |
| 1. Machine will be supplied with a remote “jump start receptacle” | Y | N |  |
| 1. **OPERATORS STATION** | | | |
| 1. Machine shall have a Certified ROPS cab meeting ISO 12117-2 specifications. | Y | N |  |
| 1. Machine shall have a ROPS Certified cab that allows an Operator Protective Guard (OPG) to be bolted directly to it. | Y | N |  |
| 1. Machine shall have FOPS (Falling Object Protection System) system without further cab reinforcement. | Y | N |  |
| 1. Vandal guard to be provided, provide details | Y | N |  |
| 1. The cab shall have an openable roof hatch to provide additional emergency escape path and clear visibility to overhead obstacles with a sunshade for operator comfort | Y | N |  |
| 1. The operator will be provided with a conveniently located tool to break the window in case of an emergency | Y | N |  |
| 1. Cab should have an automatic climate control system with outlets which provided positive filtered ventilation, with pressurized cab. | Y | N |  |
| 1. The A/C filters will be easy to replace with no special tools required and shall have extended replacement intervals | Y | N |  |
| 1. Machine shall have a 3” (75 mm) wide retractable seat belt as standard. | Y | N |  |
| 1. Cloth seat will be adjustable, with air suspension, headrest, adjustable lumbar support, and adjustable armrests | Y | N |  |
| 1. 4 position tilting consoles | Y | N |  |
| 1. System will retain and display active fault codes and incidents related to machine operating outside of the specified parameter | Y | N |  |
| 1. A colour monitor of approximately 7” will be provided | Y | N |  |
| 1. Machine will have a rear-view camera and a right-side camera available with the ability to view from the cab monitor. | Y | N |  |
| 1. Factory installed AM/FM stereo radio with Bluetooth antenna and two speakers should be standard. | Y | N |  |
| 1. The horn and travel alarm will be operable while the machine is moving forward or in reverse | Y | N |  |
| 1. Rubber floor mat to be provided | Y | N |  |
| 1. External rear-view mirrors | Y | N |  |
| 1. Windshield wiper and washer | Y | N |  |
| 1. Storage compartments and cup holder | Y | N |  |
| 1. **BOOM, STICK, & ATTACHMENTS** | | | |
| 1. Boom length should be approx. 3.75 m | Y | N |  |
| 1. Stick length should be approx. 2.12 m and capable of adding a thumb to it should it be required in the future. | Y | N |  |
| 1. Offset (swing) boom not acceptable | Y | N |  |
| 1. An Optional Heavy Counterweight should be specified. Please state weight | Y | N |  |
| 1. Machine shall have a Front Blade with cutting edge and with a hydraulic float capability to perform leveling operations. | Y | N |  |
| 1. Front Blade width of 2320mm. | Y | N |  |
| 1. The machine shall be supplied with a 24” and 48” cleanup bucket with smooth cutting edge, all with pins for a “pin grabber” quick hitch. |  |  |  |
| 1. Certified lifting eyes shall be welded to the quick hitch, and all buckets. The eye shall have approx. 25 mm hole through the plate to accommodate a rated shackle.   P2571C289T13#yIS1 | Y | N |  |
| 1. A hydraulically operated “pin grabber shall be supplied and installed – preference given to factory supplied unit | Y | N |  |
| 1. A Groeneveld auto grease unit shall be supplied and installed | Y | N |  |
| 1. Digging depth to be no less than 13’7” | Y | N |  |
| 1. Stick digging force approx. 12,800lbf | Y | N |  |
| 1. **UNDERCARRIAGE** | | | |
| 1. Machine should be supplied with long track frame option for improved stability | Y | N |  |
| 1. Machine will have as standard equipment, Grease Lubricated Sealed Track Chains | Y | N |  |
| 1. Track and carrier rollers will be lubricated for life | Y | N |  |
| 1. Rubber bolt on crawler pads will be bolted to the track shoes to match 18 inch triple grouser shoes (clamp type are not acceptable) See attached below. Other options are not acceptable.   P2615C322T13#yIS1 | Y | N |  |
| 1. Machine will have as standard equipment a Swivel Guard. | Y | N |  |
| 1. Machine will have as standard equipment a Towing Eye on the base frame. | Y | N |  |
| 1. Machine will have 4 certified “tie down eyes” (2 each side) on the track frame |  |  |  |
| 1. **WARRANTY** | | | |
| 1. Contractor to provide details on standard warranty coverage | Y | N |  |
| 1. Contractor to provide details and cost of extended machine warranty, including engine and emission systems | Y | N |  |
| 1. **Safety** | | | |
| 1. Machine shall be supplied with,    * 1- 2 lb fire extinguisher,    * 1 – No. 1 first aid kit,    * Audible travel alarm approximately 98 dbh, | Y | N |  |
| 1. **Motor Vehicle Regulations** | | | |
| 1. Excavator 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 |  |
| 1. **Miscellaneous** | | | |
| 1. 3 full sets of keys will be provided | Y | N |  |
| 1. Manufacturer’s Certificate of Origin shall be provided | Y | N |  |
| 1. The Contractor shall deliver the vehicles, registered, insured, and plated as per the City’s insurance requirements through the City’s insurance broker. | Y | N |  |
| 1. One complete Service Manual will be provided | Y | N |  |
| 1. One complete Parts Manual will be provided | Y | N |  |
| 1. A complete parts list will be provided for, belts, filters, and hoses | Y | N |  |
| 1. Fluid capacities in litres, and oil types (specifications) | Y | N |  |
| 1. Contractor to provide operator and mechanical orientation of the machine to City staff. | Y | N |  |
| 1. **VENDOR INFORMATION** | | | |
| 1. The vendor shall provide details of the location of their service and parts facility | Y | N |  |
| 1. The vendor shall provide details on the size/number of repair/service bays at their facility | Y | N |  |
| 1. The vendor shall supply the number of qualified red seal heavy duty mechanics with the experience to repair and maintain the equipment being offered in this document | Y | N |  |
| 1. The vendor shall provide details of the number excavators as quoted in the RFQ currently operating in the lower mainland, and the number currently operated by Municipalities. | Y | N |  |
| 1. The vendor shall provide details of the number of spare part items (SKU’s) on hand and the value of parts for the machine(s) quoted in this RFQ | Y | N |  |
| 1. The vendor shall provide details of the location of parts locations that they can draw from in BC, Canada and the US, if parts are not available from their local parts location | Y | N |  |
| 1. The vendor shall provide three references from municipalities who are currently operating equipment quoted in this document | Y | N |  |