

MANDATORY TECHNICAL CRITERIA

1. Bidders MUST indicate whether they COMPLY (YES) with or DO NOT COMPLY (NO) with each of the criteria in table 1. Bids that do not comply with the mandatory requirements will be deemed ineligible and will not be further considered in the evaluation process.
2. Bidders MUST present documentation to prove compliance with specifications and reference the page number of the provided documentation.
3. If the bidder has not published a prospectus, a narrative description MUST BE PRESENTED to explain how the bidder fulfills the specification.

Table 1:

Technical compliance table for compact backhoe: loader and excavator

Mandatory technical criteria		Compliant	Not compliant	Description/references/page number
<u>1. Size and weight</u>				
1.1	Width: Max. 7 ft. 0 in.			
1.2	Width: Min. 6 ft. and 0 in.			
1.3	Height: Max. 9 ft.			
1.4	Weight: Max. 14,000 lbs.			
1.5	Min. lift height: 9.5 ft.			
1.6	Min. excavation depth: 10.0 ft.			
1.7	Min. excavation reach: 15 ft.			
<u>2. Engine</u>				
2.1	Diesel motor with at least 70 GHP and compliant with Stage IV / Tier 4 Final standards			
2.2	Fuel tank: min. 19 gallons			
2.4	Must include hydrostatic transmission that reaches at least 30 km/hour			

2.5	Must include four-wheel drive			
2.6	Must be equipped with all-wheel steering			
<u>3. Hydraulic system</u>				
3.1	Pump capacity: minimum 31 gallons/min.			
3.2	Auxiliary hydraulic flow rate: minimum 120 litres/min.			
3.3	Must be equipped with an auxiliary outlet to mount hydraulic accessories. Minimum of 3.			
3.3	Must be equipped with auxiliary hydraulic connections on the boom.			
3.4	Must be equipped with a hydraulic quick coupler.			
3.5	Must be equipped with a switch for proportional hydraulic flow to auxiliary outlets.			
3.6	Must be equipped with a hydraulic load sensor that automatically adjusts oil supply to the cylinders.			
3.7	Must be equipped with a high-flow hydraulic system in addition to the standard system.			
3.8	Must be equipped with anti-drop valves in case of breakage on both shovels.			
<u>4. Interior layout and design</u>				
4.1	The operator seat must include a suspension system, armrests and wrist supports, lumbar support, and a seat belt.			
4.2	The operator seat must have the following adjustment options:			
	(a) The armrests must be able to be lowered to be parallel with the operator's seat and raised to be parallel with the back of the operator's seat or an equivalent system;			
	(b) The operator must be able to slide the seat forward and back to change the distance between the seat and the controls.			
4.3	Must have a closed cab with 360-degree visibility.			

4.4	The cab must have a rollover protective structure integrated into the frame of the cab.			
4.5	The cab must have an air conditioning and heating system.			
4.6	The cab must have a sound system and AM/FM radio.			
4.7	The cab must have at least one 12 V outlet.			
5. Standard control equipment				
5.1	Digital and/or analogue dashboard must include the following indicators:			
	(a) Oil pressure indicator;			
	(b) Engine temperature indicator;			
	(c) Fuel indicator;			
	(d) Battery indicator;			
	(e) Hour meter or odometer.			
5.2	Must be equipped with sound and/or visual warning devices to indicate any anomalies related to the dashboard indicators (a) to (d) in point 5.1 of the mandatory technical criteria.			
5.3	Must be equipped with a manual and/or automatic emergency shutdown system.			
5.4	Must have windshield wipers.			
5.5	Must be equipped with rearview mirrors to provide a full view for safe reversing operations.			
5.6	Must be equipped with a sound warning device when the compact backhoe is in motion.			
6. Lighting				
6.1	Must be equipped with a 360-degree rotating or flashing warning light.			
6.2				

	Must be equipped with a night-time LED lighting system, including outdoor lights mounted on top of the cab and on the boom.			
6.3	Cab must be equipped with a ceiling light.			
6.4	Cab must be equipped with an illuminated dashboard.			
7. Traction system				
7.1	The compact backhoe must be equipped with Michelin Bibload all-season tires or equivalent.			
8. Equipment				
8.1	The front blade must be hydraulic and able to be moved into different positions.			
8.2	The front blade must be equipped with a bolt-on cutting edge.			
8.3	Front blade length: min. 6 ft.			
8.4	Vertical rotation angle of front blade: min. 45 degrees.			
8.5	Must be delivered with an installed rear digging bucket with bolt-on teeth with a width of between 12 in. and 18 in.			
8.6	Must be equipped with a rear grading bucket with a width between 18 in. and 24 in.			
8.7	Front digging bucket force: min. 8,250 lbs of force			
	Loader lifting capacity (front): min. 3,300 lbs.			
8.8	Must be capable of digging to a depth of at least 10 ft.			
8.9	Must be equipped with a hydraulic clamp/thumb.			
8.10	Must be equipped with 2 vertical descent stabilizer legs.			
8.11	Supply the following accessory: a ripper tooth.			
8.12	Supply the following accessory: a standard transport fork.			
8,13	Must be equipped with a side-shift rear loading boom.			
9. Delivery/warranty				

9.1	Must be delivered to the destination in fully operational condition (in working order and properly adjusted). The interior and exterior must be clean. If the compact backhoe requires assembly at the destination, the contractor is responsible for supplying the staff and equipment required for assembly.			
9.2	The supplier must provide at least two hours of operator familiarity training on site.			
9.3	Full warranty and service coverage for a minimum of 3 years/3,000 hours.			
9.4	Must have service centre for repairs and parts within 300 km and/or a mobile repair service unit.			
10. Optional accessory, provide a quote (The NBC does not commit to purchasing the item described in 10.1)				
10.1	Snow pusher with reversible hydraulic wings.			