STATE OF MINNESOTA
EQUIPMENT SPECIFICATION

SPECIFICATION: 726-217 February 2, 2017
Page 1 of 1

1.0 SCOPE

BACKHOE / INDUSTRIAL LOADER

This unit shall be the most current advertised production model as modified per specifications and approved by Mn/DOT - furnished with all standard equipment advertised whether or not specifically called for here, except where the item is replaced by optional over standard equipment, or conflicting equipment is specified. The unit shall be complete with all equipment required, ready for immediate operation, and meet all applicable codes and standards.

2.0 TRACTOR: LOADER / BACKHOE REQUIREMENTS

2.1 Engine shall be water cooled diesel.
2.2 Engine shall have cold start aid system.
2.3 Anti-freeze shall be protective to -35° F or lower.
2.4 Unit shall be supplied with engine coolant heater or block heater (state watts).
2.5 Air filter shall be dual element with restriction warning light/audible indicator.
2.6 Each unit shall be supplied with one set of parts, service, repair, and operation manuals.
2.7 Unit shall have two stage fuel filtering system with water/sediment separator.
2.8 If hand throttle is utilized, hand throttle must be accessible from both loader and backhoe positions. (Not applicable for Tractor-Loaders.)
2.9 Responder shall state transmission type and number of forward and reverse gears (see transmission section of pricing pages).
2.10 Transmission shall have no clutch power shuttling between forward and reverse at any engine RPM.
2.11 Rear axle shall have on the go engagement/disengagement differential lock.
2.12 Optional air conditioning must be O.E.M., factory installed.
2.13 Unit shall have slow moving vehicle emblem.
2.14 All auxiliary quick attach hydraulic fittings must be O-ring faced seals.
2.15 Backhoe controls shall be two lever control. Loader shall be single lever control.
2.16 Brakes shall be hydraulic wet brakes, fully sealed, independent or simultaneous pedal operation.
2.17 Unit shall have independent parking/emergency brake with warning light.
2.18 Steering to be hydrostatic power type.
2.19 Tractor-Loader must be industrial rated - no agricultural type loaders will be accepted.
2.20 Unit shall have enclosed cab with at least (1) ea. one-piece lockable door, ROPS and FOPS certified.
2.21 Backhoe cab shall have front and rear windshield wipers with front washer minimum. Loader cab shall have front wipers/washers minimum.
2.22 Unit shall have tachometer, fuel, engine coolant temperature, transmission oil temperature gauges and non resettable hour/meter minimum.
2.23 Unit shall have audible/light warning system for parking brake, backup, engine coolant, engine oil, hydraulic filter restriction, transmission oil, and charging system minimum.
2.24 Unit shall have front and rear dual work lights, dual brake lights, turn signals and 4 way flashing hazard lights minimum.
2.25 Unit shall have flip pad on stabilizers which accommodate either dirt or concrete/asphalt surfaces.
2.26 Loader buckets shall have bolt on reversible blade.
2.27 Base unit price is not to include buckets - buckets shall be offered as options and itemized as a separate item with separate pricing.
2.28 Unit shall be delivered with one complete additional set of O.E.M air and fluid filters.
2.29 Manufacturers standard color acceptable, lead free paint.
2.30 Contract Vendor to give adequate instruction/orientation in mounting, removal, operation, safety and maintenance of supplied equipment before the purchase will be considered complete.