

**14.0 HYDRAULIC CRANE**

14.1 Type - hydraulic, articulated crane, centre mounted immediately behind chassis cab. \_\_\_\_\_

14.1.1 State make and model being bid. \_\_\_\_\_

14.2 Dimensions and Weights - state the following:

14.2.1 Mounting space required. \_\_\_\_\_

14.2.2 Overall width i) outriggers retracted. \_\_\_\_\_

ii) outriggers extended. \_\_\_\_\_

14.2.3 Installed weight. \_\_\_\_\_

14.2.4 Stowed height above truck frame. \_\_\_\_\_

Performance:

14.3 Crane rating - 30,000 ft.-lbs. min., state. \_\_\_\_\_

14.4 Horizontal reach - hydraulically extendable to 19 ft. min., state. \_\_\_\_\_

14.5 Vertical lift above ground - state. \_\_\_\_\_

14.6 Rotation - power, 360 degrees min. \_\_\_\_\_

14.7 Outriggers - manually extendable out, hydraulically extendable down. \_\_\_\_\_

Crane Controls:

14.8 Complete control station on each side of vehicle. \_\_\_\_\_

14.9 Control levers - horizontally positioned, self-centring, mounted at truck frame height. \_\_\_\_\_

14.10 External two-speed throttle switch. \_\_\_\_\_

14.11 Individual outrigger controls - required. \_\_\_\_\_

14.12 All crane controls to be labelled with permanent type labels. \_\_\_\_\_

Hydraulic System:

14.13 PTO - Muncie electric/hydraulic powershift or equal, state make and model being bid. \_\_\_\_\_

14.13.1 Hydraulic powershift to be operable from a normal driving position. \_\_\_\_\_

14.13.2 Warning light to show PTO engaged. \_\_\_\_\_

Template Version: G320040301

- 14.14 Pump - sufficient capacity to operate all crane functions. State make and model being bid. \_\_\_\_\_
- 14.14.1 Capacity, \_\_\_\_\_ gpm @ \_\_\_\_\_ psi, @ \_\_\_\_\_ rpm
- 14.14.2 State type of pump. \_\_\_\_\_
- 14.14.3 Closed coupled or drive shaft driven. \_\_\_\_\_
- 14.14.4 If drive shaft driven state length and diameter of drive shaft. \_\_\_\_\_
- 14.15 Hydraulic control valve - state type. \_\_\_\_\_
- 14.16 Relief valve - state pressure setting. \_\_\_\_\_
- 14.16.1 State relief valve location. \_\_\_\_\_
- 14.17 Hydraulic oil reservoir - steel construction, state capacity. \_\_\_\_\_
- 14.17.1 Location - right hand side, chassis frame mounted. \_\_\_\_\_
- 14.17.2 Baffled to prevent oil aeration and pump cavitation. \_\_\_\_\_
- 14.17.3 Level gauge - LHA, glass sight type, part number LG5T, mounted in curb side of oil reservoir. \_\_\_\_\_
- 14.17.4 Suction strainer - 100 micron, replaceable, in tank mounted. \_\_\_\_\_
- 14.17.5 Oil filler - top mounted with steel strainer and snap-ring retainer. \_\_\_\_\_
- 14.17.6 Filler cap - breather type with filter. \_\_\_\_\_
- 14.17.7 Drain plug - 3/4 in. diameter. \_\_\_\_\_
- 14.17.8 Reservoir shall be clearly labelled "Hydraulic Oil". \_\_\_\_\_
- 14.18 Oil filter - 10 micron, spin-on type return line filter, serviceable without oil loss, sized to match hydraulic requirements of crane. \_\_\_\_\_
- 14.19 Hydraulic hoses - wire-braid reinforced, rated for system operating pressure with min. 4 to 1 safety factor, protected at wear and scuff locations. \_\_\_\_\_
- 14.19.1 Hydraulic hoses and fittings - state type. \_\_\_\_\_
- 14.20 Hydraulic cylinders - double acting type equipped with counterbalance holding valves, (not required on outrigger horizontal cylinders). \_\_\_\_\_