

SAFETY DEVICES / FEATURES ON TOWER CRANES

All new application of tower crane shall be equipped with the following safety features/devices but not limited to:-

- a. Trolley traveling limiter, hoisting limiter, lowering limiter (if applicable), luffing limiter (for luffing crane), slewing limiter, maximum load limiter, A Frame Position limiter (if applicable) and load moment limiter;
- b. Jib angle indicator (for luffing crane);
- c. Effective braking system(s) that is fail-safe with the brake automatically applied whenever there is power failure, or when there is free falling of the luffing jib or the hoisted load;
- d. An efficient or locking mechanism installed directly onto the luffing drum to prevent the free-falling of luffing jib (for luffing crane);
- e. A radius and safe working load indicator that shows at all times the working radius and the corresponding safe working load and gives an audible alarm and visual warning signal when the radius or the working load is unsafe;
- f. Safe access (ladder with hoop guards or equivalent) to the operators's cabin with rest platforms at every interval not exceeding 9 meters of the climbing mast. For vertical climbing mast without rest platforms, adequate safety line(s) with fall-arresting device(s) for the attachment of the safety lanyards shall be provided and maintained;
- g. A basket fixed to the trolley or walkway fitted along the jib. A handrail or guard/safety line, to which a worker's safety harness can be attached, shall be fitted all along the length of the walkway;
- h. A device that will prevent automatic restarting of motors at the resumption of power during power interruption;
- i. Adequate aircraft warning lights;
- j. Anemometer
- k. Lighting arrestor