




Guidelines – Tower Cranes

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LOCATION / POSITIONING	TESTING & CERTIFICATION	LIFTING
<ul style="list-style-type: none"> • Crane must be of good mechanical construction, sound material, and adequate strength and free from any defect. • Risk Assessments (RA) must be carried out for all mechanical lifting. • Detail of crane capacities at various radiuses must be displayed prominently. • Cranes over 1 ton capacity must be fitted with SLI. • Provide proper access & egress to operator's cabin. • Wherever possible ensure cranes are positioned to avoid collision • Position the crane such that it does not possess any hazard to others. • Where it is possible for 2 or more cranes can collide, anti-collision devices must be installed. • Ensure that the highest crane is fitted with anemometer & kept in good working condition. • Do not operate the crane in high winds refer crane manual. 	<ul style="list-style-type: none"> • Lifting equipment must be tested every 12 months and every 6 months if persons are lifted • Crane operator, signaller and slinger must be certified by approved third party companies • Carry out weekly service inspection which must be recorded in register • Ensure the personnel involved are competent and medically fit • Lifting manager and lifting activity supervisor shall be appointed for critical lifts 	<ul style="list-style-type: none"> • Method of lifting as per the risk assessment must be communicated to all those involved. • Lifting operations must be planned, supervised, monitored & reviewed. • Ensure that people involved in any lifting operation are competent to carry out their work safely. • Lifting accessories must be safe & thoroughly examined by a competent person every 6 months. • Lifting tackle must not be altered or repaired. • Lifting tackle must be free from any defects. • Ensure that SWL is marked on the tested slings. • Cordon of the area & display adequate safety notices.

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COMMUNICATION	TRAINING & PPE	CLIMBING FRAMES & EMERGENCY
<ul style="list-style-type: none"> • Provide effective means of communication between the crane operators & signallers, slingers. • When there is no clear line of sight between operators & signallers and when tower crane is erected more than 35 mtrs. height from ground to the operators cab, provide radio communication. 	<ul style="list-style-type: none"> • All operators, signallers, slingers to be trained & certified by a Trakhees approved third party. • Use PPE as identified in RA & as recommended in the manufacturer's operation manual. 	<ul style="list-style-type: none"> • Climbing frame used in the tower crane must be tested & certified by a competent third party engineer. • Emergency procedure to be in place in case of any emergency. • Display emergency contact numbers. • Ensure that all the limit switches are in working condition.