

## SAMPLE CHECKLIST FOR TOWER CRANE

This checklist provides the basic requirements for safe operations of a tower crane. Tower crane users should consult manufacturers, suppliers and owners on operations and safety requirements and address any concerns before using the equipment. This checklist is non-exhaustive and users are recommended to make the necessary customisation to suit your work processes and conditions at the workplace.

S/N	Items		Remarks
<b>A. Tower Crane Approved For Use</b>			
1	The tower crane is of type-approved by MOM.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Tower Crane has a valid Lifting Machine (LM) certificate (issued less than 12 months ago).	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>B. General Requirements</b>			
3	The tower crane is provided with markings of the safe working load, tower crane serial number and LM number.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Proper and safe access and egress (with proper foot and hand holds/ supports) are provided to the crane operator.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	A load capacity chart is displayed in the operator cabin.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Operator crane cabin is provided with a locking mechanism so as to prevent unauthorised entry.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	A safety bar is fitted across the operator's cabin window where there is likelihood of the operator falling through it.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	An approved fire extinguisher is provided in the operator cabin.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	An Operation and Maintenance log book is available in the operator cabin.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	A Manufacturer Operating Manual and Maintenance Manual are made available.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11	Crane hook is provided with a safety catch to prevent displacement of the sling or load from the hook.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	Wire ropes are well lubricated and that there are no visible defects such as broken wires, kinks, excess wear, crushing etc.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>C. Safety and Operational Devices</b>			
13	Load radius indicator with warning alarm is installed.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
14	Jib angle indicator is provided (For Luffing Jib Tower Crane).	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15	Emergency stop button, which will terminate the operation of the crane engine, is installed in the operator cabin and	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	correctly identified.		
16	Effective braking mechanisms for the following are maintained:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	(a) Hoisting	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	(b) Derricking	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	(c) Slewing	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	(d) Trolley Travelling	<input type="checkbox"/> Yes <input type="checkbox"/> No	
17	Hoisting Limiter to prevent over-hoisting of the hook block is functional.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
18	Trolley travelling limiter to prevent over-travelling of trolley is functional.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
19	Limit switches to prevent over-derricking and over-lowering of jib (For Luffing Jib Tower Crane) is functional.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
20	Slewing limiter to restrict slewing of crane is functional.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
21	Overload Limiter to prevent overloading of crane is functional.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
22	Load Moment Limiter to prevent over-turning moment is functional.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
23	Anti-collision devices are tested to stop the tower crane's operation such that the crane-to-crane interference must be maintained at not less than 3 metres.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
24	Wind anemometer is installed and is in good working condition.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
25	Adequate aircraft warning lights and/or chequered white and red flags are provided.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>D. Maintenance</b>			
33	Tower Crane has a regular maintenance programme that is in accordance with manufacturer's specifications.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
34	Maintenance work on the Tower Crane is carried out by Competent Persons.	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Inspected by: Crane Operator	Supervised by: Lifting Supervisor
Signature / Date	Signature / Date