

Inspection Check List for: Cradle

Risk assessment	
Frequency of the In-service inspection done by the user/owner	User
operation manual & Maintenance Record available upon request write either(• both available , • operation manual only)	Available
Labels and decals for operation on the lift write either(• available • owner provided)	Available
Previous 3rd party certificate if any write either(•New equipment (first inspection) • present and valid • present and invalid • Not available)	Available
Operator training proof write either (• training certificate available• brief training provided by inspector• Experiences proof)	Safe
Operator training proof write either (• training certificate available• brief training provided by inspector• Experiences proof)	Available
Appropriate PPE for the operator write either(• helmet • shoes , • harness, • safety reflection jacket)	Safe
Is the environmental contain any hazardous conditions such as, extreme humidity, dust,sand, salt air,etc. write either (• air conditioning• periodic break• water present• supervision • safety goggles)	Safe
Is the location is next foot walks or traffic workstation or public areas write either (• present , • site condition not required)	Safe
Isolate all area, and put sign board for inspection progress write either (• present • site condition not required)	Yes
Manufacture documents matching the lift installed write either (• yes matching • verification with the manufacture after inspection)	Safe
Ensure the foundation/test area floor is adequate and leveled write either (• leveled , leveled with ease of facility/equipment)	Safe
Housekeeping , where applicable write either (• clear • clear after rectification)	Safe
Wind speed within the limits (12.5 m/s) write either (• within the limit , • waiting to be reduced)	Safe
Hazards from electrical lines write either (• obstruction provided • safe distance)	Safe
Approval from structure engineer/authority for the foundation write either(• approval available • inspector verification on the foundation (torque test for bolts & visual inspection))	Na
Adequate lighting	Safe
Preform tools box meeting	Done
Falling form height hazard write either (• safety harness worn • barrication provided)	Safe
Is there any Mechanical hazards, Generated by machine parts or work pieces such : shape, inadequacy of mechanical strength, Crushing, impact, contact of person with machine.	No
Cradle-Electrical Test	
No damage to panel enclosure	Safe
Condition of the wires and distribution board	Safe
No damage, cracks to the cables	Safe
Availability of RCD (30 mA)	Safe
No leakage b/w PE – N shall be 0-50 v	Safe
No continuity b/w the phase and the PE	Safe
Phase monitoring device	Safe
Damage to the main contactors , fuses	Safe
Continuity test acceptable value (0-5) ohm	Safe
Insulation resistance test report by the maintenance company	Safe
Cradle-Suspension Rigs (Davits)	
Check Davit base	NA
Check turning bracket (rotating davits)	NA
Typical spacing between the two davits if its complying with the platform length	NA
All bolts and nuts should be checked for integrity , with a torque wrench or hammer	NA
Cradle-Suspension Rigs (Monorail System)	
Check monorail track	NA
Check supporting bracket	NA
End stoppers	NA
Check traversing trolley for smooth	NA
Operation (motor condition - rope driven – manual)	NA
Spacing between the brackets , and typical overhang	NA
Clearance of W 0.5 m , H 1.8 m against trapping	NA
All bolts and nuts should be checked for integrity , with a torque winch or hammer	NA

check for spacing between monorail joint and availability for splices or welded joints.	NA
Cradle-Suspension Rigs (Roof Trolley System)	
Integrity of counterweight	NA
Caster condition and brakes	NA
Hydraulic jibs	NA
Hoisting mechanism	NA
Cross bar / spreader bar	NA
Mortised frame	NA
Integrity of counterweight	NA
Caster condition and brakes	NA
Protection bars available with a distance not exceeding 20 m	NA
Guide rollers / flanged wheels	NA
Guards for all of the moving part , electrical panels and machinery	NA
Traversing speed shall not exceeds 0.3 m/sec	NA
Limit switches for motions	NA
Cradle-Suspension Rigs (Track System)	
Base plates	NA
Bolts & nuts	NA
Beams elevation specially on articulated sections	NA
Damage for wheels surface, cracks, wear.	NA
Broken teeth , pinion engagement (in case of rack- pinion system)	NA
Cradle-Suspension Rigs (Suspension Beams)	
Base section	Safe
Securing bolts and tension in ropes using proper clamps	Safe
Counterweight integrity with security	Safe
Sheaves and rope pulley comply with the requirement of rope diameter	Safe
Rope clamps	Safe
Separated suspension point	Safe
Spacing between the two suspension beams complies with length of the platform	Safe
Cradle-Suspension Rigs (Parapet Clamps)	
Check integrity of the supporting structure , it shall be capable to withstand 4 times the load imposed by the parapet (concrete most of the times)	Safe
Design of the manufacture	Safe
Capacity of the parapet complies with the safe working load of the cradle taking into consideration the safety factor	Safe
No damage on the screw jack , pads , threads	Safe
Spacing between the two suspension beams complies with length of the platform	Safe
Cradle-Suspension Point	
wire rope termination on each suspension point signs for damage or deformation for accessories	Safe
separated suspension for both wires (suspension and secondary)	Safe
Cradle-Suspended Platform	
Guardrails, intermediate rails and toe boards shall be free for deformation or distortion or missing	Safe
Wall rollers , caster wheels	Safe
The minimum internal width of the platform should be not less than 500 mm.	Safe
Sound , slip resistance , drainage holes , maximum opening 15 mm diameter	Safe
The height to the top of the guardrail shall be not less than 1,0	Safe
Vertical distance between the intermediate rails and either guardrails or toe boards shall not exceed 500 mm.	Safe
Toe boards shall be not less than 150 mm above the surface of the platform decking. (TSP)	Safe
Roof or other means of protection	Safe
Availability of restrain system (if required)	Safe
Wire winders (BMU)	Safe
Cradle-Hoisting System	
Service brake activated, no displace found under normal working conditions.	Safe
No power descent , maximum angle is 14deg	Safe
Tensioning device for wire rope	Safe
Minimum pitch diameter for hoisting pulley shall be 20.d for power hoist ,18.d for manual hoist	Safe
Operating speed shall exceeds 0.3 m/s	Safe
Wire rope guides available and secured in position	Safe

Overload device (1.25 RL ,1.25 WLL)	Safe
Roof mounted hoist , device install for stopping lowering the platform with no load condition	Safe
Cradle-Limit Switches	
Anti-tilt device	Safe
Lifting limit switch	Safe
All of trolley motions (traversing, slewing, and telescoping) shall be provided with limit switch.	NA
Ultimate limit switch	NA
Lowering limit switch (BMU only)	NA
Cradle-Hoist Drum	
No damage , deformation , wire coils operation	NA
Secondary wire rope	NA
Wire rope run and laid evenly on the drum	NA
Drum flanges present without damage with 1.5d	NA
Cradle-Secondary Devices	
Secondary wire rope	Safe
Fall arrest device (tilt 14o , over speed 0.5 m/s)	Safe
Cradle-Pulleys	
Groove diameter 0,52 to 0,65 d	Safe
Opening angle 30°- 55°.	Safe
Depth shall be 1.4 d at least	Safe
Cradle-Wire Rope	
No sign for damage , bird caging , deformation and strand cut	Safe
Allowed 10 cuts of 30.d	Safe
Cradle-General Requirements	
Labeling for SWL , and WLL on the hoist	Safe
Serial numbers of hoists , secondary devices and control box	Safe
Electrical wiring diagram for the control box	Safe
Warning signs inside the platform	Safe
Cradle-Description	
Manufacture	Hoist
Model	Ltd 800
Serial number(Platform)	17
S. No motors	170801021, 170801038
S. No safety devices	170801030, NA
Span	1.5+1.0 m
Operation height	1st floor up to 12th
Elevation	Front corner
Support description	Supported on 13th floor by two suspension beams secured by counter weight 500 kg
Safe working load (SWL)	NA
Proof load applied	Na
Location	1st floor
Grindlines(if provided)	NA
Accredited Standard and Procedure	BS EN 1808:2015 , BSS-INPR-002
NDT (If required)	NA
Instruments used in inspection	MT06,DC,AM01,VT1
Subcontract Parts	NA
Environment Conditions during inspection	Good
Last Inspection Date	NA
Additional comments (If any)	NA
Any major repair if found / detail	NA
Cradle-Documents required	
Manufacture catalog / certificate /manual	Safe
Manufacture catalog / certificate /manual	Safe
Calculation for suspension Rig	Safe
Wire rope certificate / manufacture information for wire rope	Safe
Structure ,stability and mechanical calculation and electrical drawing	Safe
Tighten torque report for bolts if used	Safe
Maintenance log sheet	Safe
Previous inspection report	Safe

cradle - Defects	
NH	Toeboard need to install on one side, electrical safety RCD30ma is not work during inspection, one side handrail 1m is not installed properly.
Defects	
defect description	

Inspector Name:

Inspector Signature:

Date: