

Inspection Check List for: Cradle

Risk assessment	
Frequency of the In-service inspection done by the user/owner	Available
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)	Available
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)	Available
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)	Available
Is the location is next foot walks or traffic workstation or public areas write either (• present , • site condition not required)	Available
Isolate all area, and put sign board for inspection progress write either (• present • site condition not required)	Available
Manufacture documents matching the lift installed write either (• yes matching • verification with the manufacture after inspection)	Available
Ensure the foundation/test area floor is adequate and leveled write either (• leveled , leveled with ease of facility/equipment)	Available
Housekeeping , where applicable write either (• clear • clear after rectification)	Available
Wind speed within the limits (12.5 m/s) write either (• within the limit , • waiting to be reduced)	Available
Hazards from electrical lines write either (• obstruction provided • safe distance)	Available
Approval from structure engineer/authority for the foundation write either(• approval available • inspector verification on the foundation (torque test for bolts & visual inspection))	Available
Adequate lighting	Available
Preform tools box meeting	Available
Falling form height hazard write either (• safety harness worn • barrication provided)	Available
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.	Available
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	Safe
Check turning bracket (rotating davits)	Safe
Typical spacing between the two davits if its complying with the platform length	Safe
All bolts and nuts should be checked for integrity , with a torque wrench or hammer	Safe
Cradle-Suspension Rigs (Monorail System)	
Check monorail track	Safe
Check supporting bracket	Safe
End stoppers	Safe
Check traversing trolley for smooth	Safe
Operation (motor condition - rope driven – manual)	Safe
Spacing between the brackets , and typical overhang	Safe
Clearance of W 0.5 m , H 1.8 m against trapping	Safe
All bolts and nuts should be checked for integrity , with a torque winch or hammer	Safe
check for spacing between monorail joint and availability for splices or welded joints.	Safe
Cradle-Suspension Rigs (Roof Trolley System)	
Integrity of counterweight	Safe
Caster condition and brakes	Safe
Hydraulic jibs	Safe
Hoisting mechanism	Safe
Cross bar / spreader bar	Safe
Mortised frame	Safe
Integrity of counterweight	Safe

Caster condition and brakes	Safe
Protection bars available with a distance not exceeding 20 m	Safe
Guide rollers / flanged wheels	Safe
Guards for all of the moving part , electrical panels and machinery	Safe
Traversing speed shall not exceeds 0.3 m/sec	Safe
Limit switches for motions	Safe
Cradle-Suspension Rigs (Track System)	
Base plates	Safe
Bolts & nuts	Safe
Beams elevation specially on articulated sections	Safe
Damage for wheels surface, cracks, wear.	Safe
Broken teeth , pinion engagement (in case of rack- pinion system)	Safe
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.	Safe
Ultimate limit switch	Safe
Lowering limit switch (BMU only)	Safe
Cradle-Hoist Drum	
No damage , deformation , wire coils operation	Safe
Secondary wire rope	Safe
Wire rope run and laid evenly on the drum	Safe
Drum flanges present without damage with 1.5d	Safe
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	Transwill
Model	Tw_c
Serial number(Platform)	309
S. No motors	07160111 08160113
S. No safety devices	4173654 4173658
Span	2m
Operation height	Group to roof
Safe working load (SWL)	250kg
Proof load applied	
Elevation	
Support description	
Location	
Grindlines(if provided)	
Accredited Standard and Procedure	BS EN 1808:2015 , BSS-INPR-002
NDT (If required)	
Instruments used in inspection	
Subcontract Parts	
Environment Conditions during inspection	
Last Inspection Date	
Additional comments (If any)	
Any major repair if found / detail	
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
Defects	
defect description	

Inspector Name:

Inspector Signature:

Date: