Inspection Check List for: Cradle

Risk assessment	
Frequency of the In-service inspection done by the user/owner	**Safe**
operation manual & Maintenance Record available upon request write either(• both available , • operation manual only)	**Verified**
Labels and decals for operation on the lift write either(• available • owner provided)	**Provided**
Previous 3rd party certificate if any write either(•New equipment (first inspection) • present and valid • present and invalid • Not available)	**Provided**
Operator training proof write either (• training certificate available• brief training provided by inspector• Experiences proof)	**Verified**
Operator training proof write either (• training certificate available• brief training provided by inspector• Experiences proof)	**Provided**
Appropriate PPE for the operator write either(• helmet • shoes , • harness, • safety reflection jacket)	**Wear All PPE**
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)	**Good Condition**
Is the location is next foot walks or traffic workstation or public areas write either (• present , • site condition not required)	**Barricaded**
Isolate all area, and put sign board for inspection progress write either (• present • site condition not required)	**Safe**
Manufacture documents matching the lift installed write either (• yes matching • verification with the manufacture after inspection)	**Verified**
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)	**Barricaded**
Approval from structure engineer/authority for the foundation write either(• approval available • inspector verification on the foundation (torque test for bolts & visual inspection))	**Safe**
Adequate lighting	**Safe**
Preform tools box meeting	**Provided**
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.	**Safe**
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)	**NA**
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	**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	**NA**
Securing bolts and tension in ropes using proper clamps	**NA**
Counterweight integrity with security	**NA**
Sheaves and rope pulley comply with the requirement of rope diameter	**NA**
Rope clamps	**NA**
Separated suspension point	**NA**
Spacing between the two suspension beams complies with length of the platform	**NA**
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)	**NA**
Design of the manufacture	**NA**
Capacity of the parapet complies with the safe working load of the cradle taking into consideration the safety factor	**NA**
No damage on the screw jack , pads , threads	**NA**
Spacing between the two suspension beams complies with length of the platform	**NA**
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	
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**
Guardrails, intermediate rails and toe boards shall be free for deformation or distortion or missing	**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**
Wall rollers , caster wheels	**Safe**
Availability of restrain system (if required)	**Safe**
Wire winders (BMU)	**Safe**
Cradle-Hoisting System	
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**
Service brake activated, no displace found under normal working conditions.	**Safe**
No power descent , maximum angle is 14deg	**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**
Tensioning device for wire rope	**Safe**
Cradle-Limit Switches	
Anti-tilt device	**Safe**
Lifting limit switch	**Safe**
Ultimate limit switch	**Safe**
Lowering limit switch (BMU only)	**Safe**
All of trolley motions (traversing, slewing, and telescoping) shall be provided with limit switch.	**Safe**
Cradle-Hoist Drum	
No damage , deformation , wire coils operation	**Safe**
Wire rope run and laid evenly on the drum	**Safe**
Drum flanges present without damage with 1.5d	**Safe**
Secondary wire rope	**Safe**
Cradle-Secondary Devices	
Secondary wire rope	**Safe**
Fall arrest device (tilt 14o , over speed 0.5 m/s)	**NA**
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	
Proof load applied	**250 Kg**
Manufacture	**Malt Technics**
Model	**MCS 200-D**
Span	**2.0 M**
Operation height	**Plaza Floor Up to Roof Top**
Elevation	**All Around the Building**
Support description	**On Roof Top by Roof Mounted Trolley Unit tied with Rail Track by Powered Trolley Unit and Trolley Unit balanced with Counter weight back side of Jib**
Serial number(Platform)	**35-87-06**
S. No motors	**2006007**
S. No safety devices	**GFA-4-2589**
Safe working load (SWL)	**200 Kg / 2 Persons**
Location	**Roof Top**
Grindlines(if provided)	**Not Applicable**
Accredited Standard and Procedure	**BS EN 1808:2015 , BSS-INPR-002**
NDT (If required)	**Not Available**
Instruments used in inspection	**VT01, LDM20, DC34, ANM01, INF01, TG02, DMM10, LC01**
Subcontract Parts	**Vaptec LLC**
Environment Conditions during inspection	**Good Condition**
Last Inspection Date	**27.06.2020, Done by B Safe Safety, Eng. Nithin**
Additional comments (If any)	**1. Automatic winding Power cable Realer shall be provided.**
Any major repair if found / detail	**Nil**
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	
Defects	
defect description	**Nil**

Inspector Name:

Inspector Signature:

Date:

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