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)	Na
Operator training proof write either (• training certificate available• brief training provided	Available
by inspector• Experiences proof) Operator training proof write either (• training certificate available• brief training provided	Available
by inspector• Experiences proof) Appropriate PPE for the operator write either(• helmet • shoes , • harness, • safety	
reflection jacket) Is the environmental contain any hazardous conditions such as, extreme humidity,	Available
· · · · · · · · · · · · · · · · · · ·	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)	Safe
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)	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.	Na
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 (D	
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 (Monor	
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 Traversing speed shall not exceeds 0.3 m/sec	Safe Safe	
Limit switches for motions	Safe	
Cradle-Suspension Rigs (Tracl		
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	sion 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 (Parap	et 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 Poi	nt	
wire rope termination on each suspension point signs for damage or deformation for	Safe	
accessories	Safe	
separated suspension for both wires (suspension and secondary) Cradle-Suspended Platfo		
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	Safe	
exceed 500 mm.		
Toe boards shall be not less than 150 mm above the surface of the platform decking. (TSP)	Safe	
Roof or other means of protection Availability of restrain system (if required)	Safe 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	Safe	
hoist		
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 Device		
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 Requirem		
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	LTD50	
Serial number(Platform)	CRADLE -52	
S. No motors	0807267, 0703472	
S. No safety devices	070511, 1310014	
Span	6+1m	
Operation height	27th Floor up to roof	
Safe working load (SWL)	250 kg	
Proof load applied	312.5 kg	
Elevation	West	
Support description	Supported on top roof by two upstanding beams tied to floor by 8 bolts + tie back with wire rope connected to floor by two bolts	
Location	27th floor	
Grindlines(if provided)	01/ KJH	
Accredited Standard and Procedure	BS EN 1808:2015 , BSS-INPR-002	
NDT (If required)	NA	
Instruments used in inspection	MT06,DC,AM01	
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 requi	red	
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		



Inspector Name:
Inspector Signature:
Date:
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