**Sheffield Children’s NHS Foundation Trust**

**Invitation to Tender (ITT)**

**Lift Maintenance Service**

## Date of advertisement on Contract Finder: **01/02/2017** Trust's reference number: **1637/T/JS** Deadline for Tenders to be received: **03/03/2017 12pm**

**SCHEDULE 6 – Lift Specification**

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| **Item**  **No.** | **Description** | |
| **A** | **MACHINE ROOM** | |
| 1 | Provide safe and adequately lit access. Light fittings - 2 Units (Max 5M) | |
| 2 | Provide hoops to access ladder | |
| 3 | Provide guard rails to access trap | |
| 4 | Provide counterbalance to access trap | |
| 5 | Fit trap door notices | |
| 6 | Test and mark SWL on access trap | |
| 7 | Make machine room lockable and able to be opened from inside without a key. To open outwards. | |
| 8 | Fit current danger notice to machine room doors | |
| 9 | Provide machine room lighting to give 200 lux at floor level (Max 2 Double Fittings) | |
| 10 | Provide guards to machine room lighting fittings (2 Fittings) | |
| 11 | Provide socket outlet in machine room Local Supply. | |
| 12 | Provide light switch adjacent to access. | |
| 13 | Provide emergency lighting (2 units) and test switch | |
| 14 | Replace Ellison with lockable mains switch fuse | |
| 15 | Provide means to lock off main switch | |
| 16 | Provide guards to tubular heaters | |
| 17 | Suitably identify tripping and/or head hazards with black and yellow markings | |
| 18 | Provide ‘Low Headroom’ notice | |
| 19 | Provide ventilation/heating to maintain +5ºC to 35ºC | |
| 20 | Screen foreign apparatus in machine room (water tanks, ducts, etc.) (Max 3Mx3M) | |
| 21 | Provide guard rail and steps (if motor plinth over 500mm) (Max guardrail length 3M) | |
| 22 | Provide adequate guarding to selectors | |
| 23 | Provide adequate guarding to governor | |
| 24 | Provide adequate guarding to machine/sheaves Per Guard | |
| 25 | Provide adequate guarding to ropes | |
| 26 | Provide adequate guarding to dead end hitches (Per Box ) | |
| 27 | Provide rope jump guards to sheave where required | |
| 28 | Paint sheaves and handwinding wheels safety yellow Per Sheave | |
| 29 | Provide smooth rimmed handwinding wheel | |
| 30 | Provide brake release lever (or manual lowering device - Hyd) | |
| 31 | Provide handwinding/lowering car position indication | |
| 32 | Provide brake with two springs in accordance with BS5655 Part 1 | |
| 33 | Provide shut-off valve between jack and hydraulic tank unit. | |
| 34 | Provide hand pump and pressure gauge on hydraulic lifts | |
| 35 | Display handwinding/lowering instructions adjacent to machine | |
| 36 | Provide push to stop switch adjacent to machine | |
| 37 | Mark main switches, controllers, selectors, governors etc. | |
| 38 | Provide notices warning of interconnecting wiring (duplex or group) | |
| 39 | Provide notice on controller warning of live terminals; isolate before opening. | |
| 40 | Provide marking and notices to group/signal supplies | |
| 41 | Provide 700mm clear space to front/rear of controller Local Cost if Practicable | |
| 42 | Test lifting beam and mark with SWL Per Beam | |
| 43 | Fit electric shock notice near main switch | |
| 44 | Provide fire extinguisher | |
| 45 | Fit 50mm ferrules around all openings through machine floor slab (per opening) | |
| 46 | Provide means to contain oil spill (bund) - Hyd. | |
| 47 | Fit controller covers and doors | |
| 48 | Fit suitable shrouds to exposed 240/415v terminals in controller | |
| 49 | Provide rubber mats front and back (if needed) of controllers - Per Mat. | |
| 50 | Provide overspeed governor to operate safety gear (if appropriate) | |
| 51 | Provide contract specific record of SAFed periodic inspections | |
| 52 | | Provide means to detect machine room temperature |
| **B** | **PULLEY ROOM** | |
| 53 | Provide safe and adequately lit access. - Lighting - 2 Units (Max 5M) | |
| 54 | Make pulley room door lockable and able to be opened from inside without a key. To open outwards | |
| 55 | Fit current danger notice to door | |
| 56 | Provide push to stop switch adjacent to door | |
| 57 | Paint sheaves safety yellow Per Sheave | |
| 58 | Provide adequate guarding to overhead pulleys Per Guard | |
| 59 | Provide adequate guarding to governor | |
| 60 | Provide adequate guarding to ropes (Max 3M Per Sheave) | |
| 61 | Provide adequate guarding to dead end hitches Per Hitch | |
| 62 | Provide rope hole closers/upstands Per Hole | |
| 63 | Provide lighting to give a minimum of 200 lux at floor level Max 2 Double Fittings | |
| 64 | Provide emergency lighting (2 Units) and test switch. | |
| 65 | Provide light switch adjacent to access. | |
| 66 | Provide guards to pulley room light fittings | |
| 67 | Provide socket outlet in pulley room Local Supply | |
| 68 | Provide imperforate pulley room floor Max 3M x 3M Chequer plate. | |
| 69 | Provide ‘Low Headroom’ notice | |
| **C** | **TOP OF CAR** | |
| 70 | Screen any excessive gaps between the car top/well walls. Screen 3M x 3M Max. | |
| 71 | Provide car top balustrade, mid rail and toe board | |
| 72 | Provide warning notice for car top balustrade | |
| 73 | Provide eye bolts for safety harness SWL 90kg | |
| 74 | Provide notice on scenic lifts ‘Danger of falling – fall arrest equipment must be worn’ | |
| 75 | Provide car top communication system | |
| 76 | Provide top of car inspection control in accordance with BS7255 | |
| 77 | Provide additional ‘Stop/Run’ switch on car | |
| 78 | Provide top of car inspection lamp | |
| 79 | Fit up test limit to stop car 1.8m from nearest obstruction | |
| 80 | Provide restricted headroom notice | |
| 81 | Provide means to detect presence of person on car top (if required) | |
| 82 | Reinforce the car top to support anticipated personnel plus tools Min. 2.5M x 2.5M | |
| 83 | Provide car top sheave guards Per Guard | |
| 84 | Provide guards to ram head or counterweight pulleys Per Guard | |
| 85 | Provide ‘Do not ride on car top’ notice | |
| **D** | **LIFT CAR** | |
| 86 | Fit imperforate car door Shutter Gate (2.5W x 2.0H Max) | |
| 87 | Provide car overload detection and indicator Strain Gauge | |
| 88 | Provide car door lock and interlock during travel | |
| 89 | Fit loadplate in car with manufacturers name and reference | |
| 90 | Provide non-contact door reversal devices - 3D Detectors/Units | |
| 91 | Provide alarm bell and maintained supply | |
| 92 | Provide means of communication with a permanently manned rescue service | |
| 93 | Provide emergency lighting 3 hour | |
| 94 | Provide toe guard on car platform minimum 750mm deep (Collapsible type if restricted pit) | |
| 95 | Provide safety gear capable of release by raising car (i.e. not drum wound) Geared | |
| **E** | | **WELL AND PIT** |
| 96 | | Make shaft enclosures imperforate (Per Contract) |
| 97 | | Provide smoke ventilation |
| 98 | | Provide rupture valve on hydraulic jack (per jack) |
| 99 | | Provide slack chain/rope device |
| 100 | | Test and mark lifting beam in shaft (hydraulic) – per beam |
| 101 | | Provide lifting beam/facilities in shaft. Max 3M Long/Per Beam |
| 102 | | Provide well lighting 500mm from top & bottom to give 50 lux on car top Max 6 Flrs |
| 103 | | Provide emergency lighting in pit |
| 104 | | Make shaft lighting 2-way switched (pit and machine room) |
| 105 | | Provide covers/guards to shaft lights Max 8 Fittings |
| 106 | | Provide imperforate landing doors. Shutter Per Entrance. |
| 107 | | Provide doors with flush internal faces |
| 108 | | Fit landing door closers - Per Closer |
| 109 | | Provide landing door emergency lock release, all floors (Euro triangle) - Per Lock |
| 110 | | Provide landing door slave contacts or mechanical connection - Per Entrance. |
| 111 | | Provide pre-locking and retiring cam |
| 112 | | Provide covers to locks easily removed for inspection - Per Lock |
| 113 | | Provide warning notices to all switches above 50v |
| 114 | | Provide fascia covers or toe guards where required - Per Fascia (Max 2M x 2M) |
| 115 | | Provide counterweight screen fitted height 2500mm above pit |
| 116 | | Provide division screens full height of shaft 6 Floors (Max 3MD x 3MH) |
| 117 | | Provide pit ladder with flat rungs and hand holds Max Pit Depth 2M |
| 118 | | Provide pit switch push to stop 1.3m above landing cill |
| 119 | | Provide additional stop switch in pit |
| 120 | | Supply landing door barrier Per Barriers |
| 121 | | Provide emergency release key |
| 122 | | Supply and install electrically interlocked pit props or guide clamps for lifts with restricted pit space. To be painted yellow. |
| 123 | | Provide a notice - position prop or clamps before entering |
| 124 | | Provide reduced pit depth notice |
| 125 | | Mark safe refuge space in pit |
| 126 | | Provide socket outlet in the pit Local Supply |
| 127 | | Provide guard to governor tension weight pulley |
| 128 | | Provide governor tension weight switch |
| 129 | | Provide buffers to replace solid timber blocks |
| 130 | | Provide buffer check switches - Per Buffer |
| 131 | | Provide pit communication system |
| 132 | | Provide means to prevent uncontrolled upward movement |
| 133 | | Provide counterweight safety gear if void beneath |
| 134 | | Paint the counterweight yellow |
| 135 | | Provide 4 rope grips to all eye bolt rope terminations |