

3.13.3 ICA

- a) General cleaning and debris/dust removal.
- b) Routine instrument calibration. Maintain calibration record sheets.
- c) Verify instruments display on transmitter, MCC display unit and SCADA system.
- d) Provision of consumables: including RTU back up batteries, printer ink cartridges, RAM back up batteries for PLC's and RTU's if applicable, fuses wherever required, printer paper.
- e) General SCADA system integrity checks including data logging errors, regular system back-up.
- f) Update virus protection software, defragment hard disk drives.
- g) Preventative maintenance activities designed to maximize asset life.

3.13.4 Infrastructure

- a) Reset and adjust manhole/chamber covers and frames.
- b) Minor cover level adjustment not requiring structural modification
- c) Minor repairs to GRP lining
- d) Undertake flushing, scrubbing, scouring, cleansing of infrastructure assets
- e) Undertake leakage control and repairs of joints, valves, couplings for any Infrastructure Asset that do not require excavation works to access pipelines.
- f) Undertake minor repairs to joint seals
- g) Cleaning of chambers
- h) Minor non-structural repair to concrete within chambers.
- i) All Operational Maintenance activities shall be recorded on the DMAT CMMS.

3.13.5 Capital Maintenance

Capital Maintenance shall include but shall not be limited to the activities set out below. Refer to Section 6.23 for the collation of capital maintenance costs.

3.13.6 M&E (Non-Infrastructure Assets)

- a) Refurbishment or replacement of pumps, macerators, mixers, motors and screens
- b) Replacement of major parts such as impellers, casing, shaft, sub- assemblies, pipes, fitting, valves, cabling, etc.
- c) Rewinding of motors
- d) Refurbishment or replacement of meters
- e) Undertake overhauls requiring total dismantling, and/or machining
- f) Renewal or replacement of ACB, soft starters, VFD, change-over switches, isolation switches transformers
- g) Full sand blast and re-paint using DMAT approved epoxy paint

3.13.7 Civil (Non-Infrastructure Assets)

- a) Undertake structural repairs & periodic protection-coating
- b) Undertake health & safety improvements
- c) Undertake security improvements to meet DMAT standards
- d) Undertake replacement of gates, fences, road surfaces

3.13.8 ICA

- a) Renewal or replacement of PLCs, RTUs, Servers, Workstations, Printers, modems
- b) Renewal or replacement of instrumentation
- c) Infrastructure
- d) Replace damaged or missing manhole cover and frame