

- Installation of New Drainage Systems – Track & Off-Track
- Use of New Technologies for Drainage Works
- Design of New Drainage Systems
- Level Surveys of Drainage Assets/Systems

3. Maintenance & Inspection Services

- 3.1 The Supplier is to provide a detailed and compliant programme to the Company detailing the critical path(s) and dependencies to deliver the contracted requirements.
- 3.2 The Supplier shall include in all cases, where appropriate, hold points for delivery for compliant standards of workmanship.
- 3.3 It is expressly required that Suppliers visit the sites designated for repair prior to submitting their tender.
- 3.4 All specifications and instructions for the required 'Track Drainage' scope activities will be defined by the Company and included within the 'scope document' included within the tender pack.
- 3.5 For each specific scope/brief, the Supplier must have in place prior to any works commencing, an approved and compliant; Method Statement, Site Risk Assessment and any other assurance documents that may apply to the works, for example, in some cases, an approved 'Temporary Works Design' may be required for enabling works to commence.
- 3.6 Dependant on the nature of the works, the Supplier is responsible to make adequate and appropriate checks throughout the works for any environmental requirements such as; noise, hazardous waste transfer, etc. All environmental allowances must be assessed and appropriately allowed for by the Supplier to ensure compliance with legislation and standards throughout.
- 3.7 Any deviation(s) to the contracted scope of work(s) need to be agreed with the Company prior to any changes taking place. Any deviation(s) need to be identified by the Supplier and formally communicated with the Company through the 'contract variation processes. The variation submitted by the Supplier needs to be compliant and include all relevant details (costs, programme impacts, etc.) to enable the Company to decide and advise on the next steps.
- 3.8 Shift reporting by the Supplier needs to be compliant with the agreed format presented by the Company. The shift report should identify the progress made, resources utilised during the shift and any issues and/or concerns identified during the shift. Shift reporting needs to be received within the timescales agreed with the Company and no later than 12Hrs of the shift being completed.
- 3.9 For each shift, the appropriate quality, assurance and inspection records must be taken by the Supplier and kept as a record of the quality and workmanship recorded on site and for each shift. The specific format of these records must be agreed with the Company at the start up meeting pre-works.

- 3.10 On completion of the works, the Supplier shall provide the Infracos with a set of digital, date stamped images of the asset and associated works that are taken; before, during and after every key element of the maintenance and inspection interventions and include this along with a written report within the Handover Document and/or completion certificate.

4. Location of Works

- 4.1 The Track Drainage Works covered under this scope will generally lie within the core London Underground boundaries and property schedules. These property schedules and plans will be provided to the Supplier to allow for a full assessment of the areas covered under this scope of works.
- 4.2 For some London Underground boundaries, third party interfaces apply such as; public highways, river crossings, private land, Network Rail Track, DLR Track, etc. For these interface areas, the Supplier is expected to manage the interface and consider any specific rules and/or requirements that may apply.

5. Hours of Work

Access will be obtained in accordance with the arrangements set out in Schedule 13 [Access Arrangements]. Compliance with these arrangements is mandatory.

6. Standards and Specifications

- 6.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Schedule 1.
- 6.2 The Supplier shall deliver the Maintenance & Inspection Works in accordance with all relevant standards and specifications; this includes but is not limited to, London Underground Standards, British Standards, Building Regs, National Standards and Eurocodes.
- 6.3 It is the responsibility of the Supplier to ensure that the Standard applied to the scope of work is relevant at the time of undertaking the work.

7. Skills and Competencies

- 7.1 The Supplier's personnel shall be fully trained, experienced and competent to meet the requirements of this Scope of Services. Such training, including any subsequent refresher training shall be at the Supplier's expense. It is the Suppliers responsibility to ensure that adequate training is maintained for its staff allocated to this scope of services and throughout the life of the contract.
- 7.2 The Supplier shall formally submit to the Company all Training & Competency matrices for its staff allocated to this scope of services. These matrices shall be submitted quarterly.
- 7.3 The Supplier shall only employ the services of a sub-Supplier once the Company has been informed formally of the intention for delivering the works through this route and the relevant certification and competency to carry out the works is evidenced by the main Supplier. The main Supplier is wholly

responsible for the performance of the sub-Supplier to meet the scope of works and specification as set out by the Company.

8. Plant and Equipment

- 8.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Clause 2.9

9. Quality & Compliance Inspections

- 9.1 The Company will carry out quality inspections of Maintenance & Inspection Services completed by the Supplier in accordance with Schedule 12 [Performance].
- 9.2 The Company shall carry out routine Health & Safety audits on the Supplier whilst works are being delivered 'on-site'. The audits will assess all 'procedures and processes' being carried out to ensure that, as a minimum, compliance is achieved against the standards and specifications.
- 9.3 The output of the Company HSE audits will give a consolidated score which will determine the level of compliance. This will then be aligned to 3 achievement ratings; 'Below Compliance', 'Compliant' and 'Good Practice'.
- 9.4 The HSE audit scores form part of the Contract 'Key Performance Indicators' and are reviewed each period and discussed at the Supplier Periodic Review Meetings. Below is a summary of the 'Key Performance Measures' that are assessed each period.

- ✓ **Health, Safety, Quality and Environment** (Assessment of practices in line with business compliance and legislation)
- ✓ **Tendering** (Assessment of the quality & compliance of tenders received)
- ✓ **Assurance** (Assessment of the quality & compliance of assurance management)
- ✓ **Cost Management** (Assessment of the quality & compliance of cost management)
- ✓ **Service Quality** (Assessment of the overall Service Quality)
- ✓ **Work Planning (Progress Vs Plan)** (Assessment of the delivery of works in accordance with the contracted programme)
- ✓ **Reporting** (Assessment of the quality & compliance of reporting)
- ✓ **Service Delivery** (Measure of the quality & compliance of Service Delivery)

- ✓ **LUL Interface** (Assessment of the overall quality of LUL interfaces)

10. Asset Management System

10.1 The Supplier shall use the Asset Management Systems to record details of work undertaken by the Supplier on the Company's assets as part of the Services and to carry out any other activities in relation to the Asset Management System as set out in the Specification.

10.2 The Supplier shall ensure that all Supplier Personnel attend any training by the Company in relation to the Asset Management System and follow the methods and processes required by the Company, as may be more particularly described in the Specification or notified to the Supplier from time to time.

10.3 The Supplier shall perform its obligations under this Clause **Error! Reference source not found.** so as not to put the Company in breach of any of its obligations under any Third Party Licence and shall comply with the terms of any Third Party Licence as if it were a party to the Third Party Licence.

10.4 The supplier acknowledges that the company shall not have any liability to the Supplier in respect of any inaccuracy, error or omission contained in, or any unavailability of the Asset Management System, and the Supplier shall not be relieved of its obligations under this Contract as a result of the Asset Management System being unavailable or containing any inaccuracies, error or omissions.

Annex A
JNP Asset Base Subject to 'Track Drainage Inspection & Maintenance' Scope

Track Drainage (TD)

TD Asset Type (Volumes)	Jubilee	Northern	Piccadilly	Total
Catchpits (no.)	1422	1263	1627	4312
Track Drainage (km)	40	31.6	46.7	118.3
Drainage Ditches (km)	6.0	0.16	0.68	6.84
Channels (km)	66.5	13.3	12.4	92.2

NOTE: The above asset volumes are the entire JNP asset base and the specific individual assets out of the above groups and types will be selected by the Company in each year for Planned Preventative Interventions.

Schedule 1 – Specification

SCOPE 4 – Station Drainage (Inspection & Maintenance)

1. Description of the Works

- 1.1 The Supplier shall provide Inspection & Maintenance intervention activities to Track Drainage assets as detailed below. The Supplier shall ensure that all works are carried out in accordance with London Underground and National Standards as well as Statutory Obligations required by Law which are current throughout the life of the Contract.
- 1.2 The Supplier shall research and identify innovative products, methods of working and overall health, safety and environmental practices to ensure the continual improvement of this scope. The Supplier is encouraged to engage with the Company to arrange trial innovations for any such improvements, and work in accordance with good industry practice and best practice.
- 1.3 The Supplier shall be responsible for delivering all the requirements of this scope, including but not limited to, the supply of all labour, overheads, consumables, materials, access equipment and any plant necessary to undertake the required tasks.

2. Scope of Services

- 2.1 The Supplier shall undertake Inspection & Maintenance intervention activities to Station Drainage assets as identified by the Operations JNP.
- 2.2 The 'Station Drainage' Portfolio of assets for Operations JNP consists of the following asset groups and associated volumes.
 - Below Ground Pipework – 100no. Stations across JNP (ALL)
 - Drainage Manholes – 100no. Stations across JNP (ALL)
 - Drainage Gulleys – 100no. Stations across JNP (ALL)
 - Drainage Channels – 100no. Stations across JNP (ALL)

NOTE: Full details of the JNP asset base are contained within the attached Annex A.

- 2.3 The types of interventions covered under Station Drainage Inspection & Maintenance scope are summarised below.
 - Cleaning of Drainage by Manual & Mechanical Means – Station Grounds
 - Undertaking CCTV Surveys of Drainage Pipes – Station Grounds
 - Undertaking Inspections of Drainage Assets (Gulleys, Manholes)
 - Pipework Repairs by Trenchless Methods – Station Grounds
 - Pipework Repairs by Non-Trenchless Methods – Station Grounds
 - Manhole Repairs and/or Re-Builds – Station Grounds
 - Channel & Ditch Cleaning – Station Grounds
 - Re-bedding, replacing and repairing manhole and sump covers
 - Installation of New Manholes

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