This document is executed as a deed and is delivered and takes effect at the date written at the beginning of it





Framework: Collaborative Delivery Framework
Supplier: Jackson Civil Engineering Group Ltd

Company Number: 06778819

Geographical Area: Midlands

Contract Name: EAN & LNA Navigation Capital Programme 23/24

Project Number: ENV0002759C

Contract Type: Engineering Construction Contract

Option: Option C

Contract Number: C21346

Stage: Construction

Revision	Status		Originator		Reviewer		Date

ENGINEERING AND CONSTRUCTION CONTRACT under the Collaborative Delivery Framework CONTRACT DATA

Project Name EAN & LNA Navigation Capital Programme 23/24

Project Number ENV0002759C

> This contract is made on 11 January 2024 between the Client and the Contractor

- This contract is made pursuant to the Framework Agreement (the "Agreement") dated 01st day of April 2019 and Framework Agreement Extension dated and signed 1st April 2023 between the Client and the Contractor in relation to the Collaborative Delivery Framework. The entire agreement and the following Schedules are incorporated into this Contract by reference
- Schedules 1 to 23 inclusive of the Framework schedules are relied upon within this contract.
- The following documents are incorporated into this contract by reference LIT 13260 - CDT NEC4 ECC Scope v2 LIT 13260 - CDT NEC4 ECC Scope V3

Appendix 1 AK-NEN125 Scope of Works for Lilford Lock 23v1

Appendix 2 AK-NEN126 Scope of works for Upper Barnwell Lock 23v1

Appendix 3 AK-NEN134 Scope of works for Wansford Lock 23v1

Appendix 4 AK-OUS110 Scope of works for Brampton Lock Works 23v1 Appendix 5 AK-NEN131 Scope of works for Warmington Lock 23v1

Appendix 6 Lilford Lock Site Plan TL 02582 83743

Appendix 7 Upper Barnwell Lock Site Plan TL 03799 86904 Appendix 8 Wansford Lock Site Plan TL 07476 98258

Appendix 9 Brampton Lock Site Plan TL 22278 70536

Appendix 10 Warmington Lock Site Plan TL 07255 92096

Appendix 11 Treadmill Slab & Treadmill Works Specification

Appendix 12 Lock Chamber Mechanical Inspection Form LCM01

Appendix 13 Lock Chamber Mechanical Inspection Form LCM02 Appendix 14 Lock Chamber Mechanical Inspection Form LCM03

Appendix 15 LIT 13221 MEICA Specification_Painting and Protection Systems

Appendix 16 Employers Information Requirements_3.0

Appendix 17 High Level Access 21-1

Appendix 18 Information Delivery Plan (IDP) Appendix 19 EW_Risk Register 2023-24

Appendix 20 Target Price Clarifications and Assumptions 2023-24

Appendix 21 Yr4 Nav Document Register

Part One - Data provided by the *Client*

Statements given in all Contracts

1 General

The conditions of contract are the core clauses and the clauses for the following main Option, the Option for resolving and avoiding disputes and the secondary Options of the NEC4 Engineering and Construction Contract June 2017.

Main Option	Option C	Option for resolving and avoiding disputes	W2				
Secondai	ry Options						
	X2: Changes i	n the law					
	X5: Sectional	Completion					
	X7: Delay dan	nages					
	X9: Transfer o	of rights					
	X10: Information modelling						
	X11: Termination by the <i>Client</i>						
	X15: Contractor's design						
	X18 Limitation of Liability						
	X20: Key Performance Indicators						
	Y(UK)1: Project Bank Account						
	Y(UK)2: The Housing Grants, Construction and Regeneration Act 1996						
	Y(UK)3: The Contracts (Rights of Third Parties) Act 1999						
	Z: Additional o	conditions of contract					

The works are

The works comprise asset inspections, reactive maintenance, proactive maintenance and emergency works (where appropriate) including Contractor's design. Assets typically comprise lock structures and their facilities and seprate landing stages/moorings

The Client is	Environment Agency
Address for communications	Horizon House

Deanery Road Bristol BS1 5AH

Address for electronic communications

The Project Manager is

Address for communications

Environment Agency Horizon House Deanery Road Bristol BS1 5AH

Address for electronic communications

The Supervisor is

Address for communications

Horizon House Deanery Road Bristol BS1 5AH

Address for electronic communications

The Scope is in

LIT 13260 - CDT NEC4 ECC Scope v2 LIT 13260 - CDT NEC4 ECC Scope V3

Appendix 1 AK-NEN125 Scope of Works for Lilford Lock 23v1 Appendix 2 AK-NEN126 Scope of works for Upper Barnwell Lock 23v1

Appendix 3 AK-NEN134 Scope of works for Wansford Lock 23v1 Appendix 4 AK-OUS110 Scope of works for Brampton Lock Works 23v1

Appendix 5 AK-NEN131 Scope of works for Warmington Lock 23v1

The Site Information is in

Appendix 21 Yr4 Nav Document Register

The boundaries of the site are

Appendix 6 Lilford Lock Site Plan TL 02582 83743

Appendix 7 Upper Barnwell Lock Site Plan TL 03799 86904

Appendix 8 Wansford Lock Site Plan TL 07476 98258 Appendix 9 Brampton Lock Site Plan TL 22278 70536

Appendix 10 Warmington Lock Site Plan TL 07255 92096

The language of the contract is English

The law of the contract is

the law of England and Wales, subject to the jurisdiction of the courts of England and Wales

The period for reply is 2 weeks

The following matters will be included in the Early Warning Register

Appendix 19 EW Risk Register 2023_24

Early warning meetings are to be held at intervals no longer than

2 weeks

2 The Contractor's main responsibilities

The key dates and conditions to be met are

condition to be met key date

'none set' 'none set' 'none set' 'none set'

'none set' 'none set'

The *Contractor* prepares forecasts of the total Defined Cost for the whole of the works at intervals 4 weeks

3 Time

The starting date is 23 October 2023

The access dates are

no longer than

part of the Site date

All Sites 23 October 2023 The Contractor submits revised programmes at intervals no longer than

4 weeks

The Completion Date for the whole of the works is

09 April 2024

The Client is willing to take over the works before the Completion Date

The period after the Contract Date within which the Contractor is to submit a first programme for acceptance is

4 weeks

4 Quality management

The period after the Contract Date within which the *Contractor* is to submit a quality plan is

4 weeks

The period between Completion of the whole of the works and the

defects date is

52 weeks

The defect correction period is

2 weeks

except that

• The defect correction period for • The defect correction period for

r the safety issue for the put

24 Hours

is is

5 Payment

The currency of the contract is the £ sterling

The assessment interval is

The Client set total of the Prices is

£3,276,204.00

The interest rate is Base

per annum (not less than 2) above the Bank of England

The Contractor's share percentages and the share ranges are

2.00%

rate of the

	share	Contractor's share percentage			
less than			80 %		0 %
from	80	%	to	120 %	as set out in Schedule 17
greater than			120 %		as set out in Schedule 17

Monthly

6 Compensation events

The place where weather is to be recorded is Met Office Site at Kings Lynn, Norfolk

The weather measurements to be recorder for each calendar month are

• the cumulative rainfall (mm) • the number of days with rainfall more than 5mm

• the number of days with minimum air temperature less than 0 degrees Celsius

the number of days with snow lying at

hours GMT 09:00

and these measurements:

1. 2.

3.

4. 5.

The weather measurements are supplied by

Met Office

The weather data are the records of past weather measurement for each calendar month Met Office Site at Kings Lynn, Norfolk which were recorded at and which are available from Met Office

Assumed values for the ten year weather return weather data for each weather measurement for each calendar month are

Jan Jul Feb Aug Mar Sep Oct Apr Nov May Jun Dec

These are additional compensation events

- Carbon Methodology Adherence to and compliance with the Carbon Methodology dated 08 June 2023
- 2. A Strong Stream notification is issued on the river that delays works detailed on
- 3. Works to operate the gates on a lock and/or removal of dam boards and Equipm
- 4. Elements of the works will be subject to prevailing winds at various speeds through
- 5. 'not used'

8 Liabilities and insurance

These are additional *Client's* liabilities

- 1 'not used'
- 2 'not used'
- 3 'not used'

The minimum amount of cover for insurance against loss of or damage to property (except the works, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the Contractor) arising from or in connection with the Contractor Providing the Works for any one event is

£15,000,000

The minimum amount of cover for insurance against death of or bodily injury to employees of the *Contractor* arising out of and in the course of their employment in connection with the contract for any one event is

not less than the amount required by law

The insurance against loss of or damage to the works, Plant and Materials is to include cover for Plant and Materials provided by the Client for an amount of

Resolving and avoiding disputes

The *tribunal* is litigation in the courts The Senior Representatives of the Client are Address for communications **Environment Agency** Horizon House Deanery Road Bristol BS1 5AH Address for electronic communications Name Address for communications Address for electronic communications The Adjudicator is 'to be confirmed' 'to be confirmed' Address for communications Address for electronic communications 'to be confirmed' The Institution of Civil Engineers The Adjudicator nominating body is

Z Clauses

Z1 Correctness of Site Information and other documents

Z1.1 Site Information about the ground, subsoil, ducts, cables, pipes and structures is provided in good faith by the *Client*, but is not warranted correct. Clause 60.3 does not apply to such Site Information and the *Contractor* is responsible for checking the correctness of any such Site Information they rely on for the purpose of pricing for or providing the *works*.

Z1.2 Information regarding construction methods or processes referred to in pre contract health and safety plans are provided in good faith by the *Client* but are not warranted correct (except for the purpose of promoting high standards of health and safety) and the *Contractor* is responsible for checking the correctness of any such information they rely on for the purpose of pricing for, or providing the *works*.

Z 2A: Risk transfer: Physical conditions within the Site

Clause 60.1 (12) is deleted from this contract.

Z3 Prevention: No change to prices

Delete first sentence of clause 62.2 and replace with:

"Quotations for compensation events except for the compensation event described in 60.1(19) comprise proposed changes to the Prices and any delay to the Completion Date and Key Dates assessed by the Contractor. Quotations for the compensation event described in 60.1(19) comprise any delay to the Completion Date and Key Dates assessed by the Contractor. Delete 'The' At start of clause 63.1 and replace with:

"For the compensation event described in 60.1(19) the Prices are not changed. For other compensation events the..."

Z 4 The Schedule of Cost Components

The Schedule of Cost Components is as detailed in the Framework Schedule 9.

Z 6 Payment for

Delete existing clause 11.2 (31) and replace with:

"11.2 (31) The Price for Work Done to Date is the total Defined Cost which the Project Manager forecasts will have been paid by the Contractor before the next assessment date plus the Fee. In all instances and circumstances the Price for Work Done to Date shall not exceed the forecast for the same as provided under clause 20.4."

Z7 Contractor's share

After cl54.2 and before cl54.3, insert the following additional clause:

54.2A If, prior to Completion of the whole of the works, the Price for Work Done to Date exceeds 111% of the total of the Prices, the amount in excess of 111% of the total of the Prices is retained from the Contractor.

Z10 Payments to subcontractors, sub consultants and

Subcontractors

The Contractor will use the NEC4 contract on all subcontracts for works unless another alternative and appropriate form is proposed and agreed in accordance with clause 26.3. Payment to subcontractors will be 28 days from the assessment date.

If the Contractor does not achieve payments within these timescales then the Client reserves the right to delay payments to the Contractor in respect of subcontracted work, services or goods. Failure to pay subcontractors and suppliers within contracted times scales will also adversely affect the Contractor's opportunities to work on framework contracts.

Z16 Disallowed Costs

Add the following bullets to clause 11.2 (26) Disallowed costs

- was incurred due to a breach of safety requirements, or due to additional work to comply with safety requirements.
- was incurred as a result of the client issuing a Yellow or Red Card to prepare a Performance Improvement Plan.
- was incurred as a result of rectifying a non-compliance with the Framework Agreement and/or any call off contracts following an audit.

Z20 Defect Dates for Sections

Where a section of the works is defined and is located in a separate area of the Site, the time to the defects date for that section is the defined period after the Completion of that section, and is defined in the Contract Data.

Z21 Requirement for Invoice

Add the following sentence to the end of clause 51.1:

The Party to which payment is due submits an invoice to the other Party for the amount to be paid within one week of the Project Manager's certificate. Delete existing clause 51.2:

51.2 Each certified payment is made by the later of

- one week after the paying Party receives an invoice from the other Party and
- three weeks after the assessment date, or, if a different period is stated in the Contract Data, within the period stated.

If a certified payment is late, or if a payment is late because the Project Manager has not issued a certificate which should be issued, interest is paid on the late payment. Interest is assessed from the date by which the late payment should have been made until the date when the late payment is made, and is included in the first assessment after the late payment is made

Z22 Resolving Disputes

Delete W2.1

Z23 Risks and insurance

Replace clause 84.1 with the following

Insurance certificates are to be submitted to the Client on an annual basis.

Z31 ECC – Price Adjustment for Inflation

The Client recognises the ongoing pricing uncertainty with regards to inflation. The Client will mitigate this uncertainty through this clause.

Z31.1 Defined terms:

- a) The index is Office for National Statistics (ONS) CPI (UK, 2015=100).
- b) The Base Date Index (B) is the latest available index published by ONS prior to the Contract Date.
- c) The Latest Index (L) is the latest available index published by ONS before the date of assessment of an amount due.
- d) The Price Adjustment Factor (PAF) at each date of assessment of an amount due is 0.9((L-B)/B).

Z31.2 Application rules.

The provisions of this clause [Z31] shall apply provided that:

- a) The Price for Work Done to Date is less than or equal to the total of the Prices
- b) Inflation remains positive i.e. L is greater than B.
- Z31.3 Price Adjustment Factor.

If an index is changed after it has been used in calculating a PAF, the calculation is not changed. The PAF calculated at the last assessment date before the Completion Date for the whole of the works is used for calculating an amount for price adjustment after that date.

Z31.4 Price adjustment Options A and B.

NOT USED

Z31.5 Price adjustment Options C and D.

Each time the amount due is assessed, an amount for price adjustment is added to the total of the Prices which is the change in the Price for Work Done to Date since the last assessment of the amount due multiplied by (PAF/(1+PAF)).

Z111 ECC - Fee adjustment for non compliance with ScopeDelete existing 11.2 (10) and replace with the following clause

The Fee is the amount calculated by applying the *fee percentage* to the Defined Cost excluding the cost of Sub-contractors that have not complied with procurement by best value processes as defined in the Scope. 80% of the *fee percentage* is applied to the amount of the Defined Cost for Sub-contractors that have not complied with procurement by best value processes as defined in the Scope.

Z120 ECC – Carbon reduction

Ref. (Clause No.)	Clause words
11.2 Definitions	Add as Clause 11.2(36) (36) The Performance Table states the targets the <i>Contractor</i> is to achieve in Providing the Works and sets out the adjustment to payment if a measured performance is higher, the same or lower than its target. The Performance Table is the <i>performance table</i> unless later changed in accordance with the contract.
15.1 Early Warnings	In Clause 15.1 add as a new bullet between the second and third bullet: "• result in a target in the Performance Table not being met,"
Performance Measurements	
57	Add as Clause 57:
57.1	'From the starting date until the Completion Date, the Contractor reports to the Project Manager its performance against the targets in the Performance Table. Reports are provided at the intervals stated in the Performance Table.
57.2	If the <i>Contractor's</i> performance against a target in the Performance Table is not achieving or is forecast not to achieve the performance target stated, it submits to the <i>Project Manager</i> for acceptance its proposals for improving performance.
	A reason for not accepting the proposals is that they will not provide the improvement in performance needed to achieve the target in the Performance Table.
57.3	At the dates stated in the Performance Table, • if the relevant performance does not meet the target stated in the Performance Table, the <i>Contractor</i> pays the amount stated in the Performance Table,
	• if the relevant performance exceeds or meets the target stated in the Performance Table, the <i>Contractor</i> is paid the amount stated in the Performance Table.
57.4	Information in the Performance Table is not Scope.
X18	X18.5 add as a new bullet after the fourth bullet: • low performance damages if the Performance Table applies

The performance table is ECC-carbon-performance-table.xlsx
the Performance Table for this contract type [form, Partner, Stage] as set out in the Carbon Methodology dated 08 June 2023

Secondary Options

OPTION X2: Changes in the law

The *law of the project* is the law of England and Wales, subject to the jurisdiction of the courts of England and Wales

OPTION X5: Sectional Completion

	The <i>completion date</i> for each section 1	section of the works is description Brampton Lock	completion date 06 April 2024
	2	Lilford Lock	06 April 2024
	3	Upper Barnwell Lock	06 April 2024
	4	Wansford Lock	06 April 2024
	5	Warmington Lock	06 April 2024
X7 plus X5	Delay damages for each section 1	on of the works are description Brampton Lock	amount per day £103.00
	2	Lilford Lock	£103.00
	3	Upper Barnwell Lock	£103.00
	4	Wansford Lock	£103.00
	5	Warmington Lock	£103.00
	The delay damages for the rer	mainder of the <i>works</i> are	£103.00

OPTION X10: Information modelling

The period after the Contract Date within which the *Contractor* is to submit a first Information Execution Plan for acceptance is

2 weeks

The minimum amount of insurance cover for claims made against the *Contractor* arising out of its failure to use skill and care normally used by professional providing information similar to the Project Information is, in respect of each claim

£5,000,000

The period following Completion of the whole of the works or earlier termination for which the Contractor maintains insurance for claims made against it arising out of its failure to use the skill and care is

12 years

OPTION X15: The Contractor's design

The $period\ for\ retention\$ following Completion of the whole of the $works\$ or earlier termination is

12 years

The minimum amount of insurance cover for claims made against the *Contractor* arising out of its failure to use skill and care normally used by professionals designing works similar to the *works* is, in respect of each claim

£5,000,000.00

The period following Completion of the whole of the *works* or earlier termination for which the *Contractor* maintains insurance for claims made against it arising out of its failure to use the skill and care is

12 years

OPTION X18: Limitation of liability

The Contractor's liability to the Client for indirect or consequential loss is limited to

£5,000,000

For any one event, the Contractor's liability to the Client for loss or damage to the Client's property is limited to

£5,000,000

The Contractor's liability for Defects due to its design which are not listed on the Defects Certificate is limited to

£5,000,000

The *Contractor's* total liability to the *Client* for all matters arising under or in connection with the contract, other than excluded matters, is limited to

£5,000,000

The end of liability date is

12 years after the

Completion of the whole of the works

OPTION X20: Key Performance Indicators (not used with Option X12)

The incentive schedule for Key Performance Indicators is in Schedule 17.

A report of performance against each Key Performance Indicator is provided at intervals of 3 months.

Y(UK)1:Project Bank Account

The Contractor is to pay any bank charges made and to be paid any interest paid by the *project bank*

Y(UK2): The Housing Grants, Construction and Regeneration Act 1996

The period for payment is 14 days after the date on which payment becomes due

Y(UK3): The Contracts (Rights of Third Parties Act) 1999

term beneficiary

term beneficiary

The provisions of

Y(UK)1

Part Two - Data provided by the Contractor

Completion of the data in full, according to the Options chosen, is essential to create a complete contract.

1 General

The Contractor is

Name Jackson Civil Engineering Group Ltd

Address for communications 30 White House Road

Ipswich IP1 5LT

Address for electronic communications

The fee percentage is

Option C 9.50%

The working areas are Working areas are those identified within the scope for each

The key persons are

Name (1)
Job Contracts Manager

Responsibilities Qualifications

Experience

Programme management, resource management, risk managemen

The key persons are

Name (2)
Job Senior Project Manager

Responsibilities Qualifications Experience The key persons are

Name (3) Job

Responsibilities Qualifications Experience Sub-contract and site resource co-ordination, QHSE manage

The key persons are

Name (4) Job

Experience

Responsibilities Qualifications Quantity Surveyor Commercial Management

The following matters will be included in the Early Warning Register

2 The Contractor's main responsibilities

The Scope provided by the *Contractor* for its design is in

3 Time

The programme identified in the Contract Data is

Navigation 23 24 Construction Programme

5 Payment

The activity schedule is

Resolving and avoiding disputes

The Senior Representatives of the Contractor are

Name (1)

Address for communications

Jackson Civil Engineering Group Ltd 30 White House Road

Ipswich Suffolk IP1 5LT

Address for electronic communications

Name (2)

Address for communications

Jackson Civil Engineering Group Ltd 30 White House Road

Ipswich Suffolk IP1 5LT

Address for electronic communications

X10: Information Modelling

The *information execution plan* identified in the Contract Data is

Y(UK)1: Project Bank Account

The *project bank* is LNA Navigation Trust Deed - August.23

named suppliers are

Contract Execution

Client execution

Signed as a Deed by [PRINT NAME] for and on behalf of the Environment Agency Senior Lawyer (Team Leader) Role In the presence of: Costs Manager Role Address c/o Manley House, Kestrel Way Name [Print] Exeter, EX2 7LQ Contractor execution Signed as a Deed by [PRINT NAME] for and on behalf of Jackson Civil Engineering Gı 07/12/2023 **Company Secretary** Signature Date Role In the presence of: 07/12/2023 **Commercial Lead** Signature Date Role **Address** c/o 30 White House Road Name [Print] Ipswich IP1 5LT