

**RONAN MEALLY CONSULTING ENGINEERS
1 CITY WALL, JAMES STREET
KILKENNY**

**CATALYST HQ
O'BRIEN ROAD
CARLOW**

**LIFT SERVICES
CONTRACT SPECIFICATION
T1**

PREAMBLES

This Specification details the minimum Clients Requirement with regard to standards of workmanship and materials.

The Specification must be read in conjunction with the General Specification and Drawings and all information contained in the Contract Documents.

CONTENTS

1.0	INTRODUCTION.....	5
2.0	CONTRACT PRELIMINARIES.....	6
2.1	General.....	6
	<i>General Definitions:</i>	6
	<i>Responsibility:</i>	7
	<i>Currency Of Documents:</i>	7
2.2	The Site.....	8
	<i>Lift Sub-Contractor's Visit To The Site:</i>	8
	<i>Site Conditions:</i>	8
	The Works.....	9
2.3	BCAR Requirements.....	10
	<i>PI Insurance Requirements</i>	10
	<i>Ancillary Electrical Design Certificates to be provided to the M&E Consultant by the Contractor:</i>	10
	2.3.1 <i>Electrical Completion Certificates:</i>	10
	2.3.2 <i>Sample Certificates</i>	11
	Design Drawings:.....	14
	<i>Tender Return</i>	14
	<i>Interpretations</i>	14
	<i>Discrepancies</i>	14
	<i>Standards, Codes & Authorities</i>	14
	<i>Quality of Equipment and Materials</i>	15
	<i>Equipment Mounting</i>	16
	<i>Alternatives</i>	16
	<i>Passing or Approvals</i>	16
	<i>Safety of Installation</i>	16
	<i>Maintenance of Installation</i>	16
	<i>Authority Inspections</i>	17
	<i>Guarantees and Warranties</i>	17
	<i>CE Marking</i>	17
	<i>Data Sheets</i>	17
	<i>Related work by Other Trades</i>	17
	<i>Services Demarcations</i>	18
	<i>Contract Documentation Delivery</i>	18
	<i>Testing and Commissioning</i>	18
	<i>Testing and Setting to Work</i>	18
2.4	CONSTRUCTION PROGRAMME AND CO-ORDINATION.....	20
	<i>Programme</i>	20
	<i>Sequence Of Construction</i>	20
	<i>Submissions For Acceptance Or Approval</i>	20
	<i>Availability Of Named Goods And Materials</i>	20
	<i>Drawings</i>	21
	<i>Temporary Services</i>	22
2.5	LABOUR.....	22
	<i>Materials</i>	22
	<i>Working Hours</i>	22

	<i>Removal of Workmen from Site.....</i>	<i>22</i>
	<i>Commencement of Work.....</i>	<i>22</i>
2.6	GENERAL OBLIGATIONS	22
	<i>Tax Clearance Procedures.....</i>	<i>22</i>
	<i>Insurances</i>	<i>23</i>
Safety,	Health and Welfare at Work.....	24
	<i>General</i>	<i>24</i>
	<i>Safety Statement.....</i>	<i>24</i>
	<i>Safety Rules.....</i>	<i>24</i>
2.7	Security and Protection.....	25
	<i>Security</i>	<i>25</i>
	<i>Site/Progress Meetings</i>	<i>25</i>
	<i>Execution of Works.....</i>	<i>25</i>
	<i>Protection of Property, Trespass and Nuisance.....</i>	<i>25</i>
	<i>Protection of Existing Services</i>	<i>26</i>
	<i>Protection of Works</i>	<i>26</i>
	<i>Suppression of Noise</i>	<i>26</i>
	<i>Order of Works</i>	<i>26</i>
3.0	SCOPE OF WORKS	27
3.1	General	27
3.2	Lift Sub-Contract Responsibilities	27
3.3	Scope of Works	28
	3.3.1 CAR:	28
	3.3.2 DRIVE UNIT.....	30
	3.3.3 LANDINGS	31
	3.3.4 OPERATIONAL CONTROL	33
	3.3.5 HOISTWAY EQUIPMENT	33
	3.3.6 Emergency Rescue	34
	3.3.7 Test Reports	34
3.4	Builders Work and Protection of the Installation	34
3.5	Handover/Operation and Maintenance Documentation.....	35
4.0	TECHNICAL DATA SHEETS	36
4.1	Form Of Tender	40

1.0 INTRODUCTION

This **Specification** specifically relates to the **Lift Installation** and must be read in conjunction with the rest of the **Specifications**, drawings and particularly the **Conditions of Tendering** in the **Main Contract Document** including **Conditions of Contract**, Preliminaries, Quality and general requirements.

THE LIFT CONTRACTOR SHALL BE NOVATED TO THE MAIN CONTRACTOR FOR THE INSTALLATION OF THE LIFT.

2.0 CONTRACT PRELIMINARIES

2.1 General

General Definitions:

The following initials, words and phrases shall have the following meanings:

- | | | | |
|-------|----------------|---|---|
| (i) | IS | - | Irish Standard Specification. |
| (ii) | BS (EN) | - | British, European Standard Specification. |
| (iii) | CP | - | Standard Code of Practice. |
| (iv) | CIBSE | - | Chartered Institution of Building Services Engineers. |
-
- | | | |
|----------------------|---|--|
| 'The Works' | - | The whole of the Works envisaged by this Contract including the works of All Nominated Sub-contractors or Suppliers, Local Authority and Utilities Providers unless specifically stated otherwise. |
| The work | - | That part of the Works dependent upon or subsequent to the statement. |
| 'Instruction' | - | Instruction by the Architect or Engineer . |
| 'Inspected' | - | Inspected by the Architect or Engineer . |
| 'Submitted' | - | Submitted to or submit to the Architect or Engineer . |
| 'Engineer' | - | Refers to the Electrical Consulting Engineer . |

'Agreement', 'Acceptance', or 'Approval' by the **Architect** or **Engineer**

shall have the following limitations:

(a) When given in respect to samples of materials, workmanship or methods of construction submitted in accordance with the requirements of the **Specification**, shall not be interpreted as denoting any degree of satisfaction with the materials used in, or the execution of **the Works**.

(b) When given in respect of Drawings, documents, or schemes called for by the **Specification** or proposed by the **Lift Sub-Contractor** is only for conformance with the design concept and design information given in the **Contract Documents** or contained in subsequent **Architect** or **Engineer 's** Instructions.

Responsibility:

Any **Approval**, **Agreement** or **Acceptance** by the **Architect** or **Engineer** shall have no effect unless given in writing. No such Approval, **Agreement** or **Acceptance** shall in anyway relieve or diminish the obligations of the **Lift Sub-Contractor** under this Contract.

Currency Of Documents:

All publications referred to shall be the latest edition thereof, together with any amendments current ten days before the date fixed for the return of Tenders.

2.2 The Site

Description Of The Site And The Anticipated Ground Conditions:

The site is located at: **O'BRIEN ROAD, CARLOW**

The Lift Sub-Contractor shall verify with the Public and Statutory Authorities and others the extent and location of all their buried, surface and aboveground services, which may be affected by the Works.

Lift Sub-Contractor's Visit To The Site:

The Lift Sub-Contractor shall at the time of tendering, make himself familiar with the nature of the building construction and the site.

A site visit is highly advisable in order to view the existing building services and the scope of work contained therein.

The Lift Sub-Contractor shall contact the School to make arrangements for a site visit.

No claims resulting from failure to do so will be considered.

Architects/Structural/Mechanical and Electrical Drawings will be made available for examination to view only at their respective offices for the Electrical Sub-Contractor upon request.

Site Conditions:

The Lift Sub-Contractor will be deemed to have visited the site and assessed for himself the nature of the ground and water conditions, materials to be excavated, access and any other features which may affect his programme or methods of carrying out the Works.

The Lift Sub-Contractor shall immediately notify the Architect or Engineer should conditions encountered on the site be significantly different from those generally described in the Contract Documents.

The Works

This Specification, Documents and drawings detail the work to be carried out by the appointed Lift Sub-Contractor for this project.

This includes, but is not limited to, the following main areas: -

- Installation of a new passenger lift.
- Interface lift with fire detection and alarm system
- Fit Emergency lighting in the lift car in accordance with IS3217 2023
- All associated Builders Works
- Testing, commissioning and setting to work the complete Lift package.
- Production of As-Built Drawings and Operation and Maintenance Manuals

The appointed **Lift Sub-Contractor** shall be responsible for the supply and installation of all Lift equipment shown and/or described in this document, on the data sheets or on the drawings. The installation shall be in accordance with the general specification.

The **Lift Sub-Contractor** shall include for all supports, brackets, hangers, etc necessary for the above installation.

All works shall be carried out in accordance with **This Document**, the **General Specification**, the **Drawings** and **Data Sheets**.

Any discrepancies between the **Specification** and **Drawings** must be brought to the attention of the **Engineer**.

The **Lift Sub-Contractor** shall make no assumptions. Variations as a result of assumptions will not be paid. Requests for Information (RFI's) must be issued to the engineer.

2.3 BCAR Requirements

PI Insurance Requirements

All specialists supplying design products & ancillary design certificates, to the works, are to carry Professional Indemnity insurance to the value of €6.5 million.

Ancillary Electrical Design Certificates to be provided to the M&E Consultant by the Contractor:

Electrical Design Certificate for all necessary design work for the installed systems not explicitly designed (as presented in the tender documentation) by the consultant, consultant design altered in any way or initial design impacted by final equipment selection, this includes but is not limited to:

- Cable Sizing
- Utilities Related Design
- Lighting System Design
- Emergency Lighting System Design
- Fire Detection & Alarm System Design
- Soils and Wastes Design
- All Temporary Designs

Note: is the contractor's responsibility to ensure all design work and certification is carried out by competent persons.

2.3.1 Electrical Completion Certificates:

The contractor will provide a completion certificate for all electrical works, that they have been completed in compliance with the tender package and design certification and where there is any degree of interpretation that the contractor has completed the works in accordance with building regulations. Completion certification is to be provided at least six weeks in advance of substantial completion.

The contractor will support this certification with the following non-exhaustive list of data:

- 2 no hard copies and 1 no electronic copy of the O&M manuals are required which shall include the following information as a minimum.
- As Built drawings including copies of all valve charts and all control panel wiring diagrams
- Installation Description
- Systems operations
- All relevant suppliers, sub-contractors names, addresses and contact nos.
- Manufacturers maintenance recommendations
- Full Spare parts lists
- Daily, weekly, monthly, seasonal, annual and other periodic maintenance duties
- Comprehensive access recommendations for all relevant plant and equipment.
- Safety file and any relevant health and safety information
- All commissioning certificates
- Signed Client Demonstration & Handover Acceptance Sheets
- All manufacturers' specification sheets and installation, commissioning & maintenance recommendations.
- Any other relevant testing and commissioning certificates / results

2.3.2 Sample Certificates**ANCILLARY CERTIFICATE OF COMPLIANCE: DESIGN****(COMMENCEMENT NOTICE / 7 DAY NOTICE)***To be completed by a Specialist or Unregistered Consultant*

BUILDING CONTROL AUTHORITY : _____

PRE-VALIDATION REFERENCE NUMBER : _____



- This certificate relates to the following Building Works:
 _____ (project name)
 at _____ (address)
 element _____ (insert as appropriate)
- This certificate has been prepared in accordance with the Code of Practice for Inspecting and Certifying Buildings and Works [as published by the Minister under section 3(7) of the Building Control Act 1990] or equivalent.
- We confirm that we have been commissioned by _____ (insert as appropriate) to design, in conjunction with others, the works described above in 1 and to certify our design.
- We confirm that we are competent to carry out our design and to coordinate and integrate the design with that of others as (insert specialist skill) _____: based on _____ (insert accreditation and basis of competence)
- We confirm that we have the Professional Indemnity Insurance required in our appointment: the renewal date of this policy is _____ (date)
- We confirm that our plans, calculations, specifications and particulars included in the Schedule to the Commencement / 7 Day Notice to which this certificate is relevant, and which have been prepared exercising reasonable skill, care and diligence, have been prepared to demonstrate compliance with the requirements of the Second Schedule of the Building Regulations in so far as they apply to the building works concerned.
- Under our Conditions of Engagement we are responsible for co-ordinating and integrating within our overall design of designated elements of the works the design of such parts of the works as will be designed to the requirements of our performance specifications by specialist suppliers and/or sub-contractors and our certification is contingent on the design of such parts and proprietary products being in compliance with the requirements of our performance specifications and of the Second Schedule to the Building Regulations insofar as they apply to the elements concerned.
- We certify, having exercised reasonable skill, care and diligence that, having regard to plans, calculations, and specifications which have been prepared by us and having relied on ancillary certificates and particulars referred to at 6 and 7 above, our proposed design of those elements of the works for which we are responsible to the owner is in compliance with the requirements of the Second Schedule to the Building Regulations insofar as they apply to the elements concerned.

Company Name & Address: _____



Date: _____ Tel: _____ Fax: _____ E-Mail: _____

Company or Practice Registration No. _____ (where relevant)

Company or Practice Stamp

Signature (to be signed by a Principal or Director) Name: _____ Signed: _____



ANCILLARY CERTIFICATE OF COMPLIANCE: DESIGN

(COMPLETION)

To be completed by a Specialist or Unregistered Consultant

BUILDING CONTROL AUTHORITY : _____

COMMENCEMENT/7 DAY NOTICE REF NO. : _____



1. This certificate relates to the following Building Works:

_____ (project name)
 at _____ (address)
 element: _____ (insert as appropriate)

2. This certificate has been prepared in accordance with the Code of Practice for Inspecting and Certifying Buildings and Works [as published by the Minister under section 3(7) of the Building Control Act 1990] or equivalent.

3. We confirm that we have been commissioned by _____ (insert as appropriate) to design, in conjunction with others, the works described above in 1 and to certify our design.

4. We confirm that we are competent to carry out our design and to coordinate and integrate the design with that of others as (insert specialist skill) _____: based on _____ (insert accreditation and basis of competence)

5. We confirm that we have the Professional Indemnity Insurance required in our appointment: the renewal date of this policy is _____ (date)

6. We confirm that our plans, calculations, specifications and particulars included in the Schedule to the Commencement Notice / 7 Day Notice and Completion Certificate to which this certificate is relevant, and which have been prepared exercising reasonable skill, care and diligence, have been prepared to demonstrate compliance with the requirements of the Second Schedule of the Building Regulations in so far as they apply to the building works concerned.

7. Under our Conditions of Engagement we are responsible for co-ordinating and integrating within our overall design of designated elements of the works the design of such parts of the works as were designed to the requirements of our performance specifications by specialist suppliers and/or sub-contractors and our certification is contingent on the design of such parts and proprietary products being in compliance with the requirements of our performance specifications and of the Second Schedule to the Building Regulations insofar as they apply to the elements concerned.

8. We certify, having exercised reasonable skill, care and diligence that, having regard to plans, calculations, and specifications which have been prepared by us and having relied on ancillary certificates and particulars referred to at 6 and 7 above, our design of those elements of the works for which we are responsible to the owner is in compliance with the requirements of the Second Schedule to the Building Regulations insofar as they apply to the elements concerned.

Company Name & Address: _____



Date: _____ Tel: _____ Fax: _____ E-Mail: _____

Company or Practice Registration No. _____ (where relevant)

Signature (to be signed by a Principal or Director) Name: _____ Signed: _____



ANCILLARY CERTIFICATE OF COMPLIANCE ON COMPLETION

(ANCILLARY COMPLETION CERTIFICATE - INSPECTION)

To be completed by a Specialist or Unregistered Consultant

BUILDING CONTROL AUTHORITY : _____

COMMENCEMENT/7 DAY NOTICE REF NO. : _____



1. This certificate relates to the following Building Works:
_____ (project name)
at _____ (address)
element of work _____ (insert as appropriate)
2. This certificate has been prepared in accordance with the Code of Practice for Inspecting and Certifying Buildings and Works [as published by the Minister under section 3(7) of the Building Control Act 1990] or equivalent.
3. We confirm that we have been commissioned by _____ (insert as appropriate) to design, in conjunction with others, the works described above in 1 and to certify our design.
4. We confirm that we are competent to carry out our design and to coordinate and integrate the design with that of others as (insert specialist skill) _____; based on _____ (insert accreditation and basis of competence)
5. We confirm that we have the Professional Indemnity Insurance required in our appointment: the renewal date of this policy is _____ (date)
6. Under our Conditions of Engagement we undertook to prepare, in respect of those elements which we designed / specified, an appropriate Preliminary Inspection Plan. We confirm that, taking into account the Code of Practice for Inspecting and Certifying Buildings and Works and exercising reasonable skill, care and diligence, we prepared a Preliminary Inspection Plan which we gave to the Assigned Certifier for inclusion in the overall Preliminary Inspection Plan. We also specified, by reference to national standards or otherwise, for inclusion in the building contract(s), testing to be carried out by contractors/suppliers to demonstrate compliance of building materials, elements and workmanship.
7. We now confirm that our Inspection Plan drawn up having regard to the Code of Practice for Inspecting and Certifying Buildings and Works, or equivalent, referred to above has been undertaken by us, having exercised reasonable skill, care and diligence, and/or, where appropriate, by other competent persons, on the basis that all have exercised reasonable skill, care and diligence.
8. Based on the above and on "Part A" of the Completion Certificate, and relying on the ancillary certificates scheduled and the test results, we now certify, having exercised reasonable skill, care and diligence, that those elements of the project works which we designed/specified are in compliance with the requirements of the Second Schedule to the Building Regulations in so far as they apply to the elements concerned.

Company Name & Address: _____



Date: _____ Tel: _____ Fax: _____ E-Mail: _____

Company or Practice Registration No. _____ (where relevant)

Company or Practice Stamp

Signature (to be signed by a Principal or Director) Name: _____ Signed: _____

Design Drawings:

Floor plans and sections only have been provided with this specification.

The tenderer shall attend site and take site measurements of the existing lift shaft, floor to floor heights, pit depth, head height and other necessary dimensions.

Tender Return

The **Lift Sub-Contractor** shall be deemed, before tendering, to have made a thorough examination of the **Drawings, Specifications, Conditions of Contract**, the **Site** and other things affecting the proposed works to ascertain precisely the nature and extent of same and the conditions under which the proposed works will have to be executed.

The **Lift Sub-Contractor** shall be deemed to have obtained full information on all matters that could in any way influence this **Tender**.

The **Tender Return Form** at the back of this document shall be completed
The **Tenderer** shall identify as shown, the various elements within the Tender.
Elements should not be grouped together.

All **Tender** Documents, Data Sheets and Drawings should be returned along with the **Tender Return Form** to the offices above.

Interpretations

In the **Contract**, except where the context otherwise requires, "give notice", "submit", "supply", "furnish", and similar expressions shall mean give notice, submit, supply, furnish and the like to the **Architect/Engineer**.

Discrepancies

When this section is at variance with any other sections of the tender documents the **Tenderer** shall obtain clarification before tendering.

Failure to do so will be deemed to imply that the most onerous requirements have been included for.

Standards, Codes & Authorities

All work shall meet all the Requirements of National and Local Statutory Authorities and shall be in accordance with, and not limited to, the following: -

1. Irish Building Regulations
2. Electrical Supply Board Regulations.
3. All Applicable Irish, British and European Standards.
4. All Health and Safety Authority Requirements.
5. All Local Council Rules and Regulations.
6. Safety, Health and Welfare at Work Act, (Current Edition)
7. The Management of Electrical Safety at Work – ET206: 2000
8. IS:10101 (5th Edition)
9. EN81-20, EN81-50, EN81-70, EN81-73, BS8486-1

Quality of Equipment and Materials

All equipment and materials shall be new unless otherwise noted.

Unless otherwise specified, all materials, plant and equipment, and the installation thereof, shall comply with **the Irish Standards and Codes of Practice, Institutional Regulations, Statutory Requirements, National and Local By-laws** where applicable.

Allow for proper packaging and delivery of all equipment and materials and for returning re-useable packaging to the suppliers as appropriate.

Allow for proper storage and protection of all equipment and materials on Site.

Workmanship shall be of the best quality, and shall be produced by skilled and responsible craftsmen fully experienced in their respective trades.

All equipment shall be installed only to manufacturer's recommendations.

Equipment Mounting

Insert a damp proof membrane wherever metal comes into contact with concrete, including all electrical equipment, cable rack supports etc.

Alternatives

Alternatives may be identified on the Alternative Equipment Schedule provided in the **Datasheets**.
The Equipment and Plant Priced in the **Tender Return** must reflect those specified in the **Datasheets**.

Passing or Approvals

The **Passing or Approval** of any aspect of 'the Works' by the **Architect/Engineer** does not relieve the **Lift Sub-Contractor** of his responsibility under this contract to provide the specified systems, plant and equipment.

Any works or materials deemed unsatisfactory and/or not in compliance with the intent of the **Specification** and documents shall be removed and replaced with satisfactory work and materials at the **Lift Sub-Contractor's** cost.

The **Lift Sub-Contractor** shall issue details of all specified equipment and plant for approval prior to placing order.

All equipment and plant shall be approved on site by the engineer prior to installation.

Safety of Installation

The Installations shall in all events operate in "fail-safe" mode i.e. if there is a failure or malfunction of a piece of plant or equipment, a consequential dangerous situation shall be prevented by automatic control. All necessary devices and interlocks shall be allowed for in the **Tender** whether specified in detail or not.

Maintenance of Installation

The **Lift Services Installations** shall be installed such that all components of the **Installations** are accessible and easily maintainable.

Factory trained service networks shall support all equipment used in the **Installations**.

All **spare parts** shall be available factory ex-stock for a period of 5 years from purchase date.

Authority Inspections

Refer to General Requirements in Conditions of Tendering in the Main Contract Document.

Guarantees and Warranties

All manufacturers guarantees and warranties on plant, equipment, etc., shall be valid up to the end of **the Defects Liability Period**.

CE Marking

All electrical equipment, systems supplied and installed shall conform to the appropriate **EU Directives** and shall carry the applicable **CE Marking**.

Data Sheets

Data Sheets have been provided to control the quality of the installation.

The **Lift Sub-Contractor** must price the equipment listed in the Datasheets and identify in the Tender Return. For Alternative refer to the section on **Alternatives**.

Related work by Other Trades

All builders' work such as cutting of holes in walls and floors (of size greater than 100mm in any dimension) the provision of foundation for plant and machinery, etc., will be carried out by the **Main Contractor**. The **Lift Sub-Contractor** shall, however, be responsible for the correct marking out and providing all builder's works information/drawings to enable the **Main Contractor** to fulfil his obligations with regard to Builder's Attendances.

The **Lift Sub-Contractor** shall produce Builder's Work Drawings and submit to the **Engineer** for **comment** and submit to the structural engineer for **approval**.

Where services pass through partitions (floors, walls, ceilings) the **Lift Sub-Contractor** shall maintain the fire rating if applicable within the services e.g. cable tray, trunking etc. The **Lift Sub-Contractor** shall refer to the **Architect** to identify all Fire Walls within the building.

The **Main Contractor** shall be responsible for making good of all builder's work opes around services and ensuring that the making good does not damage the services installed.

Work to be carried by others: -

- Safe Disposal of construction/debris
- Lifting/Hoisting plant and equipment
- OPES for passage of trunking, conduit etc
- Chasing as required
- Fire stopping and filling of OPES
- Painting of exposed conduits, etc
- Temporary Power and Lighting for Construction
- Providing Fixed Mounted Scaffolding

Services Demarcations

Definition of demarcations shall not absolve responsibility of the **Lift Sub-Contractor** to perform the whole of the Contract works in a manner satisfactory to the **Architect/Engineer**.

Contract Documentation Delivery

The **Lift Sub-Contractor** shall allow for supplying copies of all **Electrical Services RFI's (Request For Information)**, Drawings and any other Documentation associated with the installation directly to the **Architect/Engineer**.

This flow of information shall be simultaneous to all parties.

A4 information may be faxed.

Overnight courier should send all other information over the size of A4.

All costs for this delivery process shall be included in the contract sum.

Testing and Commissioning

The **Lift Sub-Contractor** shall ensure that sufficient time is allowed in the **Main Contractor's** programme to carry out the testing, pre-commissioning and handing over of the installation.

Testing and Setting to Work

On completion of works or parts of the works the **Lift Sub-Contractor** shall test the various installations in

accordance with standard test procedures set out in the **IS, BS and European Standards and Codes of Practices.**

The various sections may not all be carried out together and the **Lift Sub-Contractor** shall include in the contract sum for testing phases to suit the progress of the building.

Where nominated suppliers appointment includes for testing, the **Lift Sub-Contractor** shall be responsible for ensuring that all tests are properly carried out and test/commissioning certificates to be included in the O & M Manuals.

The **Lift Sub-Contractor** shall serve at least seven days notice on the **Engineer** before carrying out the test to allow the **Engineer** or his representative to witness the test if he so wishes.

Nevertheless the **Lift Sub-Contractor** shall forward to the **Engineer** fully completed and signed Test Certificates for all installation works.

2.4 CONSTRUCTION PROGRAMME AND CO-ORDINATION

Programme

The **Lift Sub-Contractor** shall include within his Programme, details of his intended timing and order for the construction of the **Lift Installation** Works and the dates by which any significant items of information will be required from the **Main Contractor**.

The Programme shall make all necessary allowances for submissions and **Approvals** and any other specific requirements of the **Specification**, including allowances for any standing time and time for work under provisional and contingency sums, which may affect the progress and shall be arranged such that actual progress may be recorded against each item.

The Programme shall indicate the start dates and times on site for the various utilities and service supply companies whose works the **Main Contractor** is responsible for co-ordinating.

Sequence Of Construction

The **Lift Sub-Contractor** shall submit in writing his proposals for the sequence of construction, diversions, connections and reconnections before the work begins.

Where a sequence of construction is described or shown on the drawings or other schedules the **Lift Sub-Contractor** may, if he so wishes, submit his own proposals not less than two weeks before the work begins.

Submissions For Acceptance Or Approval

Where submissions for **Approval** are specified, the **Lift Sub-Contractor** shall prepare and submit with his Programme a schedule of such submissions, co-ordinated with the Programme and including agreed time allowances for submission and **Approval** before the related work commences.

Working Drawings and **Calculations** to support details and components chosen and any other relevant information shall be submitted not less than two weeks before manufacture begins.

The **Lift Sub-Contractor** shall check that all Working and Installation Drawings are complete and co-ordinated.

The **Lift Sub-Contractor** shall confirm in writing to the **Main Contractor and Engineer** that he has done so.

Availability Of Named Goods And Materials

Within two weeks of the commencement of the Contract the **Lift Sub-Contractor** shall determine the availability of all named goods and materials specified in the **Contract Documents**, and shall notify the **Main Contractor and Engineer** of his findings in writing.

Drawings

- **Construction Drawings**

The **Lift Sub-Contractor** shall check all **Drawings** and **Specifications** to ensure in good time that he has sufficient information to carry out the work and that all the instructions, **Drawings** and **Specifications** he has been provided with compatible information on the work to be carried out.

If the **Lift Sub-Contractor** considers additional details are required, he shall notify the **Main Contractor** and **Engineer** immediately.

In the event of any discrepancy being found between such **Drawings** and **Specifications**, the **Lift Sub-Contractor** shall notify the **Main Contractor/Engineer** immediately.

- **Working Drawings**

The **Lift Sub-Contractor** shall keep on site a full set of the Construction Drawings.

The **Lift Sub-Contractor** shall show all cable routes and final locations of equipment and outlets on his **Working Drawings**, which he will submit to the **Engineer** for appraisal prior to installation.

The **Lift Sub-Contractor** shall record all alterations, variations, additions and omissions.

The **Lift Sub-Contractor** shall include the contract sum for the maintenance of up to date working drawings on site during the course of the project.

- **As Built Drawings**

The **Lift Sub-Contractor** shall include for the preparation of final marked-up drawings, at practical completion stage.

The drawings shall be completed in current CAD format and accurately show all cable routes, equipment/plant locations and service routes.

The **Lift Sub-Contractor** shall on completion, submit to the **Engineer** a draft copy of the full complement of **As-Built Drawings** and allow two weeks for comment of same.

Temporary Services

It is the responsibility of the **Main Contractor** to provide adequate temporary water, power and lighting supply for the duration of the **Construction** period.

2.5 LABOUR

Materials

The **Lift Sub-Contractor** shall at all times provide sufficient and adequate numbers of skilled men and labourers to carry out and maintain each and every part of **the Works** in a proper and expeditious manner, and shall provide all materials, tools, equipment, plant and everything necessary for the proper execution, completion and maintenance of **the Works**.

Working Hours

The **Lift Sub-Contractor** shall allow for executing any work, which, in the **Project Manager/Architect's** opinion is likely to cause annoyance or inconvenience to occupants in the vicinity, at such times during normal working hours as the **Project Manager/Architect** may direct.

The **Lift Sub-Contractor** shall not execute any work outside normal working hours without the prior written consent (Site Instruction) of the **Project Manager/Architect or Engineer**. Normal working hours excludes Night Work and Sundays.

Removal of Workmen from Site

The **Architect/Project Manager** shall have the power without redress to have removed from Site any Workmen who misconduct themselves or who are incompetent or negligent.

Commencement of Work

No item of work shall be commenced until satisfactory results of any related preliminary tests required by the **Specification** have been submitted.

2.6 GENERAL OBLIGATIONS

Tax Clearance Procedures

The **Lift Sub-Contractor** shall be registered with the Revenue Commissioners for Income Tax purposes and shall submit with his **Tender** a current Sub-Contractor's C2 Certificate or a Tax Clearance Certificate.
Failure to do so will nullify the tender.

Insurances

The **Lift Sub-Contractor** shall provide for Insurance under any **National or Local Statutory Acts** affecting labour in force at the **Tender** Date (unless previously allowed for in rates), and as set out in the Main Contractor's Conditions of Contract.

The **Lift Sub-Contractor** shall comply with the provisions of the Building (Safety, Health, Welfare) Regulations under Factories Act.

The **Lift Sub-Contractor** shall provide for all payments in connection with obligations arising under Working Rule Agreements, Employment Regulation Orders, Registered Employment Agreements and the like.

Safety, Health and Welfare at Work

General

The **Lift Sub-Contractor** shall comply fully with **Safety and Health** requirements as stated in the **Main Contract Conditions**.

In particular the **Lift Sub-Contractor** shall comply with the conditions of the Safety, Health and Welfare at Work (Construction) Regulations 1995 - S.I. 138: 1995.

The **Lift Sub-Contractor** shall contribute as necessary to the Health and Safety Plan and File for the building and co-operate with the **Project Supervisor**.

Safety Statement

The **Lift Sub-Contractor** shall submit a Contract specific Safety Statement to the Project Supervisor for Construction for review within ten (10) working days of Contract Award. The Safety Statement must be signed by the **Project Supervisor (Construction)**.

This Statement shall set out arrangements whereby the Contractor intends to ensure the safety, health and welfare of his employees and shall include a list of foreseeable hazards, assessment of risks and proposed control measures.

Safety Rules

The **Lift Sub-Contractor** shall observe and ensure full implementation by his employees of the **Safety Rules** as specified on site by the Main Contractor.

2.7 Security and Protection

Security

On the grounds of **Client Security**, maps, plans, drawings and sketches, etc of **the works** should be treated as highly confidential and only be released to other persons on a need to know basis.

Refer to the **Main Contract Documents** for any specific requirements for this site.

No photography is allowed on site without prior written consent from the **Client**.

Any special security clearance to be approved by the **Client**.

Site/Progress Meetings

The **Lift Sub-Contractor** will be obliged to attend all site/ progress meetings, as required and determined by the **Main Contractor/Engineer**.

Execution of Works

The whole of **the Works** shall be executed in the manner specified and to the dimensions and in accordance with the particulars shown on the drawings or given in the **Specification's**.

The **Lift Sub-Contractor** shall be paid only for the work executed to the satisfaction of the **Architects/Engineer**.

The Works shall be executed and maintained in an **Approved** and workmanlike manner, by workmen skilled in the various trades required for carrying out and maintaining **the Works**.

All materials, which are used in connection with **the Works**, shall be of the best quality of their respective kinds.

Protection of Property, Trespass and Nuisance

The **Lift Sub-Contractor** shall take every precaution to preserve from damage any property; trees and shrubs etc, situated on or near the Site of **the Works** and shall indemnify the **Client** against all claims in connection thereto.

The **Lift Sub-Contractor** and Suppliers shall keep within the Site Boundaries
And shall not Trespass or cause Nuisance to adjoining Operations / Property or the Public generally.

Protection of Existing Services

The **Lift Sub-Contractor** shall make good, at his own expense any damage caused whatsoever to existing services to the complete satisfaction of and in accordance with the instructions of the **Engineer/Statutory Authority** concerned, and shall keep the **Client** indemnified at all times from claims in connection with the damage.

Protection of Works

The **Lift Sub-Contractor** shall carefully cover up or otherwise protect all work liable to injury from the weather, stormwater, or any other cause during construction.

The **Lift Sub-Contractor** shall allow for any contingencies or extra temporary works which may be necessitated by adverse site conditions or which may be required by the **Engineer** or **Architect** for the protection of **the Works**.

Suppression of Noise

The **Lift Sub-Contractor** shall have due regard at all times for the need to reduce the noise level of plant to a minimum.

This is particularly necessary where work is carried out in close proximity to hospitals, schools, and housing and office developments.

Compressors and all other plant, which is likely to constitute a nuisance or cause distress, must be fitted with efficient silencing devices.

Order of Works

The **Lift Sub-Contractor** shall, within two weeks of the date of the official order to commence **the Works**, submit to the **Main Contractor**, for his **Approval**, a detailed programme setting out the stages and order in which he proposes to carry out and complete **the Works** within the prescribed time for completion.

3.0 SCOPE OF WORKS

3.1 General

In all sections of this **Specification**, the word “**Lift Sub-Contractor**” shall mean the tenderer whose tender has been accepted for the Lift Installation.

3.2 Lift Sub-Contract Responsibilities

The tenderer must at the time of tender, state the manufacturers names and catalogue numbers of the equipment on which his tender is based.

It is not sufficient for the tenderer to state “materials as specified “, the information given must be adequate to identify the actual unit concerned without ambiguity.

Any obstructions to the proper positioning of the outlets shall be brought to the notice of the **Engineer**.

The **Lift Sub-Contractor** shall keep a competent supervisor constantly on the works at all times when the Contract Works are been carried out. The supervisor must be authorised to receive instructions on behalf of the **Lift Sub-Contractor**.

The **Lift Sub-Contractor** shall be entirely responsible for the Contract works, whether under construction or during testing and commissioning, until the Works have been accepted as been completed by the **Engineer**.

The **Engineer** reserves the right to reject any workmanship and materials not conforming to the **specification** and instruct the **Lift Sub-Contractor** to carry out such alterations or replacements of materials at the **Lift Sub-Contractor’s** expense.

When the installation has been completed in accordance with the Contract, a **Completion Certificate** will be issued certifying the date on which the installation was taken over and the commencement of the maintenance/ defects liability period.

3.3 Scope of Works

3.3.1 CAR:

3.3.1.1 Car Frame

A car frame fabricated from formed steel members of the frame and shall be operated by an overspeed governor. Guide shoes shall be mounted to top and bottom of the car frame to engage the guide rails and ensure smooth car operation.

3.3.1.2 Platform

The car platform shall be of all steel construction.

3.3.1.3 Car Enclosure

The car enclosure shall be made of steel.

3.3.1.4 Car Façade

A car façade shall be provided in vinyl coated stainless steel. The stainless steel finish shall be Brushed.

3.3.1.5 Car Ceiling

Brushed Stainless Steel

3.3.1.6 Flooring

Durable high quality rubber, colour to be determined on site.

3.3.1.7 Car Operating Panel

The Car Operating Panel shall be of convex design located within the car wall in accordance with the requirements of the Building Regulations part M to ensure it is suitable for use by disabled persons.

It shall be finished in brushed stainless steel. The car panel shall include circular (micro movement) halo illumination of the button, which will indicate that it has been pressed. Buttons shall be provided for entering floor calls, door opens and alarm.

A position indicator providing a digital (alpha numeric) display shall be included. The position indicator shall utilize LCD technology. The panel shall also include:

- Emergency intercom,
- Speech Synthesiser,
- Door Close & Open Buttons,
- Car overloaded indicator,
- Alarm Button.
- Car Preference Key Switch

3.3.1.8 Car Lighting

Lighting shall be provided by concealed led's.

3.3.1.9 Car Wall Finish

The walls shall be stainless steel finish. Full Height mirror on rear wall, handrails to side wall finished to RAL colour to be specified by the architect. Handrails to be round. Kickplate to be installed around perimeter of car, Hairline Brushed.

3.3.1.10 Car Door

The car entrance shall be provided with openings (two-speed) type horizontal sliding door to correspond to those indicated on the drawings. The door shall be hung on roller operating on a steel track and guided at the bottom by non-metallic shoes sliding in a threshold groove. The car door finish shall be brushed stainless steel.

3.3.1.11 Door Operator

A closed loop variable frequency controlled door operator shall be provided to drive the car and landing doors fully automatically. The open and close speed profile shall be software based and reprogrammable via a test tool.

The time interval for which the elevator doors remain open when the car stops at a landing shall be independently adjustable for response to car calls and response to hall calls.

The maximum time to complete open and completely close the doors shall be industry standard.

The maximum door noise measured one metre from the landing entrance shall not exceed 55dBA.

3.3.1.12 Passenger Door Protection

An electrical infra-red screen curtain type detector shall be provided. This shall provide protection across the full width and height of the entrance. Interruption of the curtain beams shall cause the doors to reopen.

Passenger Communication System

The lift car shall be provided with a 2 way communication system that is connected to a rescue service capable of providing 24 hour, 365 days per year cover.

Operation of the alarm button shall automatically activate the communication system and connect it to the rescue service.

It shall automatically notify the rescue service if for some reason they are unable to do so.

The Lift Contractor shall include for the supply and installation of a GSM and 24 month prepaid SIM.

3.3.2 DRIVE UNIT

3.3.2.1 Machine

The machine shall be of the Gearless A.C. permanent magnet type with a single piece main shaft, integral drive sheave and brake disc. The main brake shall be of the Disc type with independent dual action capable of arresting the load on any single calliper.

In the event of undetected brake wear the brake shall not lift and thereby automatically prevent further lift operation.

3.3.2.2 VF Drive

An AC Closed Loop, variable Frequency, motion control and velocity profile shall be provided. The micro-computer based speed control system shall incorporate a detail closed loop feedback system ensuring the actual elevator speed is in line with a dictated pattern during all phases of travel, namely acceleration, full running speed and deceleration. All phases of travel shall be controlled regardless of load or direction of travel.

The acceleration and deceleration valves shall be easily adjustable on site by qualified personnel and shall be initially set at 1.0m/s.

3.3.2.3 Flight Time

The elevator manufacturer shall guarantee the floor to floor time.

3.3.2.4 Stopping Accuracy

The stopping accuracy shall be no more than +/-3mm before loading or unloading the car. The mechanical brake shall not be operative before the car has been electrically stopped and at speed zero.

3.3.2.5 Relevelling

To compensate for rope stretch under various load conditions, an automatic relevelling system is to be furnished to ensure the car stays within the floor levelling zone at all times.

3.3.3 LANDINGS

3.3.3.1 Landing Entrances

Automatic Sliding Doors

Automatic sliding doors (two-speed) type sheer steel entrances suitable for each floor as indicated on the drawings shall be supplied and installed for each landing.

The door panels shall be prime coated. The door panels shall be finished in stainless steel, finished 220 grit. A small decorative frame, finished in stainless steel shall be provided.

The doors shall have a 2 hour fire rating and reinforced aluminium sills.

3.3.3.2 Landing Fixtures

At each landing a hall push button shall be provided. When a call is registered by momentary pressure on a landing button, that button shall become illuminated and remain illuminated until the call is answered. The illumination shall be by light emitting diodes, displaying green for up and red for down.

At each terminal landing, a push button shall be provided and at each intermediate landing, a button fixture shall be provided containing UP and DOWN push buttons. When a call is registered by momentary pressure on a landing button, that button shall become illuminated and remain illuminated until the call is answered. The illumination shall be by light emitting diodes, displaying green for up and red for down.

Key Switch

A separate key switch integral with the hall button fixture shall be provided at ground floor for car to lobby service.

Hall Position Indicator

A digital hall position indicator shall be installed at all landings. The indicator shall have an alpha numeric capability.

Hall Lantern

A hall lantern integral with the hall position indicator shall be provided at all landings. When a car is stopping at a landing, the lantern indicating the direction in which the car is travelling shall become illuminated prior to arrival of the car.

Gong

A gong shall sound to announce the arrival of the car. The gong shall have different tones to identify UP and DOWN direction.

3.3.4 OPERATIONAL CONTROL

3.3.4.1 Simplex Down Collective Microprocessor Control

The operation shall be full Collective system, with one button in the car for each landing and one button at each landing. All stops registered by the momentary pressure of the car buttons shall be made in the order in which the landings are reached after the buttons have been pressed but irrespective of the sequence in which calls were registered.

Stops registered by the momentary pressure of the buttons at the landings shall be made in the order in which the landings are reached in the down direction of travel after the buttons have been pressed. All landing calls shall be answered when the car is travelling in the down direction, except in the case of the terminal floor calls which shall be answered as soon as it is reached.

Load Non-Stop Options – The landing calls shall be bypassed but not cancelled if the load in the car is approximately 80% of the contract load.

3.3.5 HOISTWAY EQUIPMENT

3.3.5.1 Hoistway Equipment

Guide Rails

Planned steel “T” rails shall be provided as guides for the car (and counterweight). The guide rail shall be securely fastened and accurately installed onto the building structure.

Counterweight

A structural steel frame with filter weights shall be furnished to provide proper counterbalance for safe operation.

Safety Gear

A counterweight safety gear is not required.

Car Suspension

The car shall be suspended by flat construction, polyurethane coated belts of a suitable number to provide a minimum safety factor of 12.

Compensation

Compensation shall be provided if required by the traction.

Buffers

Speed 1.0m/s or less suitable energy accumulation type buffers shall be provided for car and counterweight.

Electric Wiring

All necessary insulated wiring and Trunking together with necessary fittings, will be provided, except as specified as work by others.

3.3.6 Emergency Rescue

At the highest landing there shall be located an Emergency & inspection panel. This shall be unlocked by a triangular door release key similar to the landing doors.

When opened it shall reveal instruction on the use of the Emergency passenger release system. With the mains power disconnected or lost it shall be possible to move the car to a floor by means of an electrical push button. Whilst the car is being moved in this way the car door shall be locked mechanically and the machine shall automatically regulate itself to avoid over speeding.

When it is sufficiently close to a floor to allow passengers to be released it shall stop itself.

3.3.7 Test Reports

On completion of all tests, the Lift Sub-Contractor shall sign complete and hand over to the Engineer, a Completion Certificate.

3.4 Builders Work and Protection of the Installation

The **Lift Sub-Contractor** shall be responsible for the protection of all lift equipment specified in this **Specification** and on the drawings and data sheets, from adverse weather conditions or any other damages that may occur during the construction period.

In the event of such damage occurring to such equipment, then the **Lift Sub-Contractor** shall be responsible for making good the repairs to it.

The **Lift Sub-Contractor** shall allow for co-ordination with the **Main Contractor**. This shall include provision of “Builders Works” details/schedules and supervision of all said works.

The **Lift Sub-Contractor** shall allow for internal sealing of all conduits/trunking passing through firewalls and floor slabs.

3.5 Handover/Operation and Maintenance Documentation

The **Lift Sub-Contractor** shall handover all other vendor supplied documentation relating to the Lift installation of this project.

This shall include, but not limited to the following: -

- A full set of As-Built Lift Drawings
- Maintenance Manuals.
- Operation Manuals.
- Installation Manuals.
- Spare Parts List.
- Calibration/Test Sheets.
- Calculations.
- Commissioning Certificates
- Completion Certificates

The **Lift Sub-Contractor** shall include in the contract sum for the issue of 3 No. copies of all the above drawings/documentation.

4.0 TECHNICAL DATA SHEETS

Technical Datasheet No	Description
1	Passenger Lift

Client	Department Of Education	Document	Lift Data Sheet
Project No	25K46	Date	13/07/26
Project Description	Gorey Community School	Sheet	1 of 1

Item	Description	Specification
1	Lift Type	MRL
2	Lift Usage	Transportation of passengers in school
3	No. of Cars/Load	1/630kg
4	Speed	1.0m/s
5	Rise	Refer to architectural drawings
6	No. of Stops	2
7	No. of Entrances	2
8	Control	Simplex Full Collective
9	Drive	VVVF
10	Machine Location	No machine room
11	Starts Per Hour	No. of motor starts 240
12	Levelling Accuracy	3mm
13	Shaft Dimensions	1800x1800
14	Door Access	Central opening
15	Type of Car/Hoistway Door	2 Speed, See drawings for openings
16	Dimensions of Door	900mm
17	Telephone Line	Lift Supplier to allow for supply of GSM unit and 24 month prepaid SIM
18	Floor	Durable Rubber
19	Power Supply	3 phase, 50 Hz

The Lift must comply with the lift regulations EN81-20 and EN81-50.

Lift Car Specification: Tenders to base tender return on the following no variations will be accepted.

Front wall	Brushed stainless steel 304
Side & Rear walls	Brushed stainless steel 304
Car operating panel	Full height stainless steel cabinet
Car flooring	Non slip Rubber – Colour TBC
Car ceiling	Finished in brushed stainless steel (INCLUDE BROCHURE)
Lighting	LED Lighting

Other features to be included

Ventilation	Natural, ventilation slots at high & low levels
Handrail	Brushed stainless steel on ONE wall with rounded ends (opposite COP) to architects selected RAL
Mirror	Half Height to side wall above handrail fixed with Stainless Steel fixings
Car operating panel	Digital Dot matrix with direction Indicators
	Micro movement pushes
	Door open push
	Alarm push
	All pushes to have tactile indication
	Emergency light unit
	Autodialler Unit
	Dedicated phone line to be provided others
Car door finish	Brushed stainless steel
	2 HOUR FIRE RATED
Landing door & surround finish	150mm wide box frame Maintenance access panel to be incorporated in frame at top floor landing.

Car and landing entrances

Power operated doors with full
height pressure sensitive door reversal.

Curtain of light, full height safety edge

Two-hour fire certified entrances at
All floors.

Stainless steel landing pushes, with
Tactile indication, to be located on wall

Landing aprons and toe guards

Audible alarm to be located within
The liftwell at the main level served.

Pit ladder

Sound insulation

Buffer steelwork

Tactile pushes to both car and
Landing pushes

24 month warranty

4.1 Form Of Tender

Tender Summary

For the

LIFT INSTALLATION
At
CARLOW CATALYST HQ

Item	Description	€
A.	Lift Specification	
	1. Lift Sub-Contract Preliminaries	€
	2. Lift Installation	€
	3. 24 Month prepaid SIM	€

	Lift Installation Subtotal	€ _____
B.	Testing & Commissioning <u>All</u> Lift Services	€ _____
C.	O&M Manuals	€ _____
D.	Working and As-Built Drawings	€ _____
Total for Lift Installation		€ _____

ISSUE REGISTRATION:**Project Title: CATALYST HQ****Project No: 23K14**

Rev	Date	Purpose of Issue/Nature of Revision	Prepared by	Issue Authorised by
T1	13-07-26	Issue for Tender	RM	CM

This document takes into account the particular instructions and requirements of our Client. It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

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