



ANNEXURE A

SPECIFICATION

MAINTENANCE AND REPAIRS OF BUILDING 616, 617, 793, 626, 620, 621, 1037, 656, 655, 674, 676 & 675 ROOF FOR ARMSCOR DOCKYARD, SIMON'S TOWN

SUMMARY: THIS DOCUMENT ESTABLISHES THE USER AND TECHNICAL REQUIREMENTS FOR THE MAINTENANCE AND REPAIRS OF ROOFS, CLADDING, FLASHINGS, GUTTERS, DOWNPIPES, FASCIA BOARDS AND ASSOCIATED WATERPROOFING AT THE APPLICABLE ARMSCOR DOCKYARD BUILDINGS, INCLUDING ASBESTOS WORK WHERE APPLICABLE.

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1. INTRODUCTION

1.1. Purpose

This specification defines the requirements for the investigation, maintenance, repair, removal, disposal, procurement, supply, delivery, installation, testing, commissioning and handover of roof-related work at Buildings 616, 617, 793, 626, 621, 620, 1037, 656, 655, 674, 676 & 675, hereinafter referred to as applicable buildings, at Armscor Dockyard, Simon's Town.

The work includes zinc aluminium and Nutec, side cladding, ridge and barge flashings, fascia boards, gutters, downpipes, box gutters, penetrations, waterproofing and asbestos work where existing materials contain asbestos.

1.2. Background

Armscor Dockyard constantly reviews its capabilities to meet its client's maintenance and repairs requirements. A feasibility study for maintaining and repairing affected buildings was conducted on the buildings which were extremely damaged within the Armscor Dockyard.

The delay in expediting the maintenance and repairs of the applicable buildings' roofs pose a height risk on workshop personnel, machinery and operational continuity. Therefore, Armscor Dockyard requires a competent service provider to restore the applicable buildings to a safe and conducive working environment.

2. ABBREVIATIONS, ACRONYMS, DEFINITIONS, APPLICABLE AND REFERENCE DOCUMENTS

2.1. Abbreviations, Acronyms and Definitions

TERM	MEANING
ADY	Armcor Dockyard.
AIA	Approved Inspection Authority approved by the Department of Employment and Labour for the relevant occupational hygiene work.
CIDB	Construction Industry Development Board.
Service Provider	The appointed principal contractor/service provider, including approved subcontractors.
SANS	South African National Standard.
SHE	Safety, Health and Environment.

2.2. Applicable and Reference Documents

The maintenance and repairs shall comply with the latest revision of the following governing legislation:

- 2.2.1 Occupational Health and Safety Act, 1993 (Act 85 of 1993), as amended.
- 2.2.2 Construction Regulations, 2014, promulgated under the Occupational Health and Safety Act, as amended.
- 2.2.3 National Building Regulations and Building Standards Act, 1977 (Act 103 of 1977), as amended.
- 2.2.4 National Environmental Management: Waste Act, 2008 (Act 59 of 2008), as amended.
- 2.2.5 Compensation for Occupational Injuries and Diseases Act, 1993 (Act 130 of 1993), as amended.
- 2.2.6 Applicable municipal, environmental, transport, waste-disposal and fire-safety requirements.
- 2.2.7 SANS 1200 - Standardized specification for civil engineering construction.
- 2.2.8 SANS 10400 - The application of the National Building Regulations.

- 2.2.9 Asbestos Abatement Regulations, published under Government Notice R1196 of 10 November 2020 (as amended).
- 2.2.10 Any other relevant governing legislation applicable to this requirement.

3. REQUIREMENTS

Armcor Dockyard in Simon's Town requires the maintenance and repairs of roofs, cladding, flashings, gutters, downpipes, fascia boards and associated waterproofing at the applicable Armcor Dockyard buildings, including asbestos work where applicable.

3.1. COMPLIANCE WITH MANDATORY CRITERIA

Should the service provider fail to comply with any one of the mandatory criteria, the potential offer shall be eliminated from the evaluation process resulting in the offer not being eligible for the awarding of an order. Furthermore, Armcor reserves the right to verify all submitted information on official online platforms. If any provided information does not align with these online records, the supplier shall be disqualified

Criterion 1: Compulsory service provider's site inspection	
<u>Requirement:</u> The service provider shall attend the site inspection which will be held at Armcor Dockyard, Simon's Town.	<u>Compliance Evidence:</u> The service provider shall complete and sign the attendance registers provided at the site inspection.
Criterion 2: CIDB registration	
<u>Requirement:</u> The service provider shall be registered with the Construction and Industry Development Board (CIDB) as a General Building contractor grading designation of 3SN or higher or 3GB or higher.	<u>Compliance Evidence:</u> The service provider shall submit with the offer a valid CIDB registration letter/status indicating a unique CIDB CRS number. The service provider's registration must be valid 3SN grading or higher or 3GB grading or higher at the closing date of the Request for Quotation. If the service provider is a Joint Venture, then the service providers shall submit a combined valid CIDB registration letter/status indicating a unique CIDB CRS number(s).

	Joint ventures are eligible to submit offers provided that: 1. Every member of the joint venture is registered with the CIDB. 2. The lead partner has a service providers' grading designation in the 3SN grading or higher or 3GB grading or higher class of construction work or not lower than one level below the required grading designation in the class of works construction works under considerations and possess the required recognition status. 3. The combined service providers' grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a service provider's grading designation determined in accordance with the sum tendered for a 3SN grading or higher or 3GB grading or higher class of construction work or a value determined in accordance with Regulation 25 1 B) or 25 7 A) of the Construction Industry Development Regulations.
Criterion 3: Relevant Experience	

<u>Requirement:</u> The service provider shall have completed at least one repair or installation of roofs project within the past 5 years.	<u>Compliance Evidence:</u> The service provider shall submit with the offer at least one client reference letter on the letter head of the client or completion certificate signed by the duly authorized client representative or Principal Agent, with contact details, confirming the following: (a) The name of the service provider, (b) Confirmation of repair or installation of roofs project (c) Project completion date. (d) The service provider shall ensure that the contact details provided on the reference letters are reachable via email and/or telephone as Armscor Dockyard reserve the right to verify authenticity. Should the completion certificate or reference letter not indicate repairs or installation of roofs, then the service provider shall submit either a completion certificate or a reference letter issued by their client or principal agent confirming the successful repair or installation of roofs.
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Criterion 4: Registered Asbestos Contractor

<u>Requirement:</u> The bidder and/or its subcontractor shall be a type 2 or type 3 registered asbestos contractor by the Department of Employment and Labour.	<u>Compliance Evidence:</u> The bidder and/or subcontractor shall submit with the bid a valid accreditation/ authorisation letter issued by the Chief Inspector from the Department of Employment and Labour confirming that the bidder is registered as a type 2 or type 3 asbestos
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	contractor.
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3.2. Material List

The table below comprises of the list of items to be supplied, delivered, installed and commissioned when conducting roof maintenance and repairs on the applicable buildings at Armscor Dockyard, Simon's Town.

Table 1: Material List

ITEM NO.	ITEM SPECIFICATION	UNITS OF MEASUREMENT	QUANTITY
1.	REQUIREMENT: Springlok 700 Zinalume AZ200 Sheeting SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing damaged Zinc Aluminium Sheets with Springlok 700 Zinalume AZ200 Sheeting for building number 616, 793, 617, 626, and 656 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Roof Sheet Type: Concealed Fix Roof System Roof Sheet Material: Zinalume Sheet Minimum Thickness: 0.53mm Sheet Minimum Length: 10m Sheet Minimum Width: 700mm	Each	462
2.	REQUIREMENT: Springlok 700 Clip SCOPE OF SUPPLY: Supply and deliver Springlok 700 Clip for the installation of Springlok 700 Zinalume AZ200 Sheets for building number 616, 793, 617, 626, and 656 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Clip Type: Springlok 700	each	1000
3.	REQUIREMENT:	each	5000

	TFix Corroshield SCOPE OF SUPPLY: Supply and deliver TFix Corroshield for the installation of Springlok 700 Zincalume AZ200 Sheets for building number 616, 793, 617, 626, and 656 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Screw Type: Corroshied Class: 3 Square Drive: 45 mm		
4.	REQUIREMENT: Nutec roof sheeting and side cladding SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing damaged Nutec sheets with Nutec roof sheeting for building number 616, 656, 621, 620, 1037, 655, 674, 676, and 675 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Roof Sheet Material: Nutec Dimension: 3 x 920 x 3600 mm	Sheet	426
5.	REQUIREMENT: Ridge Cap Adjustable Internal Wing Close SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing ridge capping with ridge cap adjustable internal wing close for Building 621, 620, 1037, 655, 674, 676, and 675 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Ridge Capping Material: Nutec Dimension: 325 x 875mm	each	168
6.	REQUIREMENT: Barge Board Socketless	pair	18

	SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing fascia boards with barge board socketless for building number 621, 620, 1037, 655, 674, 676, and 675 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Barge Board Material: Nutec Dimension: 200 x 80mm x 3000mm		
7.	REQUIREMENT: 125mm Half Round PVC Gutter SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing gutters with a 125mm half round PVC gutters for building number 616, 617, 793, 626, 621, 1037, 656, 655, 674, 676 & 675 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Gutter Material: PVC Dimension: 125 x 87mm x 6m Product to include: Fittings, brackets and joints for installation where applicable.	each	30
8.	REQUIREMENT: 150mm Half Round PVC Gutter SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing gutters with a 150mm half round PVC gutters for building number 616, 617, 793, 626, 621, 1037, 656, 655, 674, 676 & 675 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Gutter Material: PVC Dimension: 146 x 93mm x 6m Product to include:	each	100

	Fittings, brackets and joints for installation where applicable.		
9.	REQUIREMENT: 110mm PVC Downpipe SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing downpipes with a 110mm PVC downpipes for building number 616, 617, 793, 626, 621, 1037, 656, 655, 674, 676 & 675 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Downpipe Material: PVC Downpipe Size: 110mm Length: 6m Thickness: 3mm Product to include: Fittings, brackets, connectors, joints and shoes for installation where applicable.	each	120
10	REQUIREMENT: 160mm PVC Downpipe SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing downpipes with a 160mm PVC downpipes for building number 675 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Downpipe Material: PVC Downpipe Size: 160mm Length: 6m Thickness: 3mm Product to include: Fittings, brackets, connectors, joints and shoes for installation where applicable.	each	2

11	REQUIREMENT: 120mm Screw Roof & Washer Nutec SCOPE OF SUPPLIER: Supply and deliver 120mm screw roof & washer Nutec for the installation of Nutec roof sheets, Nutec fascia board and barge board socketless for building number 621, 620, 1037, 655, 674, 676, and 675 at Armscor Dockyard in accordance to SANS 10400-L. SPECIFICATION: Screw Type: Nutec Roof Screw with a Washer Screw length: 120mm	each	3600
12	REQUIREMENT: 2.5m x 50mm ABE Super Waterproof Laykold Tape or equivalent. SCOPE OF SUPPLY: Supply, deliver and waterproof all openings within building 616, 793, 617, 626, and 656 roof with 2.5m x 50mm ABE Super Waterproof Laykold Tape Seal at Armscor Dockyard Specification: Minimum Length: 2.5m Minimum Width: 50mm	each	100
13	REQUIREMENT: Zinc Aluminium Box Gutter SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing box gutter with a new Zinc Aluminium Box Gutter at Building 621 at Armscor Dockyard. SPECIFICATION Gutter Material: Zinc Aluminium Dimension: 1200 x 500mm Minimum Thickness: 3mm Length: 47m	each	1

	Product to include: At least 12 Zinc Aluminium Roof Gutter brackets and necessary accessories for the installation of the gutter.		
14	REQUIREMENT: Zinc Aluminium Box Gutter SCOPE OF SUPPLY: Prepare, clean, repair and waterproof existing Zinc Aluminium box gutter at building number 793 at Armscor Dockyard. SPECIFICATION Gutter Material: Zinc Aluminium Dimension: 900 x 500mm Thickness: 6mm Length: 37m	each	3
15	REQUIREMENT: Zinc Aluminium Box Gutter SCOPE OF SUPPLY: Prepare, clean, repair and waterproof existing Zinc Aluminium box gutter at building number 656 at Armscor Dockyard. SPECIFICATION Gutter Material: Zinc Aluminium Dimension: 900 x 500mm Thickness: 6mm Length: 24m	each	4
16	Zinc Aluminium Box Gutter SCOPE OF SUPPLY: Prepare, clean, repair and waterproof existing Zinc Aluminium box gutter at building 656 at Armscor Dockyard. SPECIFICATION Gutter Material: Zinc Aluminium Dimension: 900 x 500mm	each	10

	Thickness: 6mm Length: 24m		
17	Zinc Aluminium Box Gutter SCOPE OF SUPPLY: Prepare, clean, repair and waterproof existing Zinc Aluminium box gutter at building number 656 at Armscor Dockyard. SPECIFICATION Gutter Material: Zinc Aluminium Dimension: 900 x 500mm Thickness: 6mm Length: 36m	each	2
18	Zinc Aluminium Box Gutter SCOPE OF SUPPLY: Prepare, clean, repair and waterproof existing Zinc Aluminium Box gutter at building number 656 at Armscor Dockyard. SPECIFICATION Gutter Material: Zinc Aluminium Dimension: 900 x 500mm Thickness: 6mm Length: 36m	each	4
19	REQUIREMENT: Galvanised Mild Steel Bage Flashing SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing bage flashing with galvanised mild steel bage flashing using corrosion resistant screws for building number 616, 793, 617, 626, and 656 Armscor Dockyard. SPECIFICATION Material: Galvanised Mild Steel Thickness: 3mm	each	6

	Size: 230 x 230mm Minimum Length: 20m Product to include: TFix Corroshield screws for installation.		
20	REQUIREMENT: Galvanised Mild Steel Ridging Capping SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing ridge capping with galvanised mild steel ridging capping using corrosion resistant screws at building number 616, 793, 617, 626, and 656 Armscor Dockyard SPECIFICATION Material: Galvanised Mild Steel Thickness: 3mm Size: 230 x 230mm Minimum Length: 38m Product to include: TFix Corroshield screws for installation.	each	5
21	REQUIREMENT: Nutec Fascia Board SCOPE OF SUPPLY: Remove, dispose existing, dispose and replace existing fascia board with Nutec fascia board using 120mm screw roof & washer Nutec for building number 616, 617, 793, 626, 621, 1037, 656, 655, 674, 676 & 675 Armscor Dockyard SPECIFICATION Material Type: Nutec Dimensions: 912 x 225 x 3000mm Product to include: 120mm Screw Roof & Washer Nutec for installation.	each	80

22	REQUIREMENT: 560 Acrylic waterproofing system SIKA RAINITITE or equivalent with a membrane SCOPE OF SUPPLY: Supply, deliver and waterproof all openings within building 621, 620, 1037, 655, 674, 676, and 675 roof with 560 acrylic waterproofing system Sika Raintite with including a membrane at Armscor Dockyard Specification: Sikalastic Size: 5L Membrane: 10m x 200mm	each	20
23	REQUIREMENT: 300 ml Silicon Sealant SCOPE OF SUPPLY: Supply, deliver and waterproof all openings within building number 616, 617, 793, 626, 621, 1037, 656, 655, 674, 676 & 675 using 300 ml Silicon Sealant at Armscor Dockyard. SPECIFICATION Product Type: Silicon Sealant Size: 300 ml Compatibility: UV-resistant sealant compatible with coated steel and fibre cement.	each	100

3.3. Installation

- 3.3.1 Repairs to the roof as per Annexure B shall be carried out so that it safely sustains any actions which can reasonably be expected to occur and in such a manner that any local damage (including cracking) or deformation do not compromise it's functioning.
- 3.3.2 The Concealed Fix Roof sheeting shall be installed in accordance to the manufacturer's instructions for extreme wind conditions by workers with the correct skills.
- 3.3.3 Provide waterproof temporary covers at every incomplete area. No building may be left exposed overnight or during adverse weather.
- 3.3.4 Any person who erects, maintains, alters, renovates, repairs or dismantles asbestos roof sheet, gutters, fascia boards and barge boards shall ensure that all works shall be done in compliance with the Asbestos Abatement Regulations, 2020 (as amended), and that.
 - a. All run-off water must be filtered before entering the stormwater system.
 - b. Full compliance with the regulations in terms of the safe removal of the asbestos containing material.
 - c. All asbestos containing material i.e., roof sheet, rainwater gutters and down pipes, shall be disposed of according to the asbestos abatement regulations.

3.4. Commissioning

- 3.4.1 General requirements which need to be satisfied upon the completion of Maintenance, Repairs and Installation on applicable buildings include but not limited to the following:
 - (a) The refurbishment to the roof is expected to be durable and shall not allow the penetration of rainwater or any other surface water to its interior and shall not cause water to drip onto the ceiling or floor from the underside.
 - (b) Workshops gutters and downpipes shall be cleaned and unclogged where applicable.

- (c) The roof shall be adequately anchored against wind uplift where applicable.
- (d) The roof coverings and waterproofing systems shall be repaired if damaged where applicable.
- (e) All end laps in roof sheeting must be properly sealed.
- (f) All fasteners must be corrosion resistant.
- (g) All repairs/refurbishments must be deemed to meet/satisfy the requirements of the latest revisions of the SANS 10400 Series.

3.4.2. The service provider shall provide Armscor with manufacturer warranties for roof sheets, waterproofing systems, together with a minimum 3-year workmanship warranty against all workmanship related defects.

3.5. Deliverables:

3.5.1 The quotation to be submitted to Armscor Dockyard shall include but not limited to the following:

- (a) Pricing schedule (as per Annexure C).
- (b) Verifiable specifications of materials to be supplied, delivered, installed and commissioned (i.e., Zinc aluminium roof sheets, Nutec sheets, flashings, fasteners, waterproofing, sealants, gutters and downpipes)

3.5.2 Deliverables due after receipt of the Armscor Order:

- (a) SHE File, which shall be approved by the Armscor Dockyard SHE department prior to any commencement of work.
- (b) Project Schedule prior to work commencement.
- (c) Approved asbestos plan of work, appointments i.e., AIA (approved inspection authority) shall be submitted prior to work commencement in accordance with the Asbestos Abatement Regulations, as amended.
- (d) Asbestos notifications, air-monitoring records, disposal certificates and clearance certificate, work completion certificate.

4. ARMSCOR DOCKYARD SUPPORT

4.1. Facilities

- (a) Armscor Dockyard shall provide compressed air and power supply points.
- (b) In addition, Armscor Dockyard shall make available a cherry picker to the service provider, provided that the service provider has a valid certified cherry picker driver.
- (c) Any further roof access requirements i.e., scaffolding shall be provided by the service provider.
- (d) Armscor Dockyard working hours are 07:15 till 16:30 from Monday to Thursday and 07:15 till 12:15 on a Friday.

ANNEXURE B

ANNEXURE B - DETAILED BUILDING-BY-BUILDING SCOPE

The below tables outline the detailed scope per building:

B.1 Mechanical Fitters Workshop – Building 616

Element	Detailed requirement
Zinc Aluminium Sheets	Remove, dispose existing damaged zinc aluminum sheets and replace with 40x Springlok 700 Zinalume AZ200 Sheeting.
Vents	Remove, dispose existing 17x vents and replace with 28x Springlok 700 Zinalume AZ200, including framing/closures required for a watertight detail.
East-side cladding	Remove, dispose existing asbestos side cladding and replace with 12x Nutec sheets.
West-side cladding	Remove, dispose existing asbestos side cladding and replace with 4x Nutec sheets.
North-side cladding	Remove, dispose existing asbestos side cladding and replace with 4x Nutec sheets.
Barge flashing	Remove, dispose existing barge flashing and replace with 4x 10 m barge flashing
Ridge capping	Remove, dispose existing ridge capping and replace with 37 m galvanized mild steel ridge capping
North gutter	Remove, dispose existing zinc aluminium gutter and downpipes and replace 37 m gutter with 150 mm PVC gutter and replace 4x 150 mm PVC downpipes, 8 m height. Remove, dispose existing zinc aluminium gutter and PVC downpipes and replace 37 m gutter with 150 mm PVC gutter and replace 4x 150 mm PVC downpipes, 2 m height.
North fascia boards	Remove, dispose existing fascia board and replace with approximately 37 m with Nutec fascia board.
South box gutter	Clean, repair and waterproof existing 37 m zinc aluminium box gutter.

ANNEXURE B

Element	Detailed requirement
South gutter	Remove, dispose existing zinc aluminium gutter and PVC downpipes and replace 37 m gutter with 150 mm PVC gutter and replace 4x 150 mm PVC downpipes, 2 m height.

B.2 Mechanical Fitters Workshop – Female Messroom – Building 616

Element	Detailed requirement
Waterproofing	Waterproof the complete roof area. Length: 3 m roof length (final area to be site measured and priced per square metre).
East gutter	Remove, dispose existing asbestos gutter and replace 3 m gutter with 125 mm PVC gutter.
Downpipes	Remove, dispose existing asbestos downpipes and replace with 2x 110 mm PVC downpipes, 3 m height.
Fascia boards	Remove, dispose existing fascia boards and replace with approximately 20 m Nutec fascia board.

B.3 Mechanical Fitters Workshop – Male Messroom – Building 616

Element	Detailed requirement
Waterproofing	Waterproof the complete roof area. Length 8 m (final area to be site measured and priced per square metre).
North fascia boards	Remove, dispose existing fascia boards and replace with approximately 8 m with Nutec fascia board.
East fascia boards	Remove, dispose existing fascia boards and replace with approximately 18 m with Nutec fascia board.

ANNEXURE B

B.4 Mechanical Fitters Workshop – Toilets/Messroom – Building 616

Element	Detailed requirement
Waterproofing	Waterproof the complete roof area. Length: 8 m (final area to be site measured and priced per square metre).
North fascia boards	Remove, dispose existing fascia boards and replace with approximately 8 m with Nutec fascia board.
East fascia boards	Remove, dispose existing fascia boards and replace with approximately 18 m with Nutec fascia board.

B.5 Factory – Building 793

Element	Detailed requirement
Zinc Aluminium Sheets	Remove, dispose existing damaged zinc aluminum sheets and replace with 64x Springlok 700 Zincalume AZ200 Sheeting.
Vents	Remove, dispose existing 34x vents and replace with 68x Springlok 700 Zincalume AZ200, including framing/closures required for a watertight detail.
Barge flashing	Remove, dispose existing barge flashing and replace with 2x 10 m barge flashing
Ridge capping	Remove, dispose existing ridge capping and replace with 37 m galvanized mild steel ridge capping
South gutter	Remove, dispose existing and replace 37 m gutter with 150 mm PVC gutter.
South downpipes	Remove, dispose existing asbestos downpipes and replace with 4x 110 mm PVC downpipes, 4 m height.
South fascia boards	Remove, dispose existing fascia board and replace with approximately 37 m with Nutec fascia board.
Box gutters	Clean, repair and waterproof existing 37 m zinc aluminium box gutter.

ANNEXURE B

B.6 Hydraulic Workshop – Building 617

Element	Detailed requirement
Zinc Aluminium Sheets	Remove, dispose existing damaged zinc aluminum sheets and replace with 60x Springlok 700 Zinalume AZ200 Sheeting.
Vents	Remove, dispose existing 10x vents and replace with 20x Springlok 700 Zinalume AZ200, including framing/closures required for a watertight detail.
Barge flashing	Remove, dispose existing barge flashing and replace with 2x 10 m barge flashing

B.7 Hydraulic Workshop – Laundry Room – Building 617

Element	Detailed requirement
North gutter	Remove, dispose existing asbestos gutter and replace 10 m gutter with 150 mm PVC gutter.
North downpipes	Remove, dispose existing asbestos downpipes and replace with 2x 110 mm PVC downpipes, 4 m height.
South gutter	Remove, dispose existing asbestos gutter and replace 10 m gutter with 150 mm PVC gutter.
South downpipes	Remove, dispose existing asbestos downpipes and replace with 2x 110 mm PVC downpipes, 4 m height.

B.8 Hydraulic Workshop – Messroom – Building 617

Element	Detailed requirement
South gutter	Remove, dispose existing asbestos gutter and replace 10 m gutter with 150 mm PVC gutter.
South downpipes	Remove, dispose existing asbestos downpipes and replace with 2x 110 mm PVC downpipes, 4 m height.

ANNEXURE B

Element	Detailed requirement
South gutter	Remove, dispose existing asbestos gutter and replace 37 m gutter with 150 mm PVC gutter.
South downpipes	Remove, dispose existing asbestos downpipes and replace with 4x 110 mm PVC downpipes, 8 m height.

B.9 Boathouse – Building 626

Element	Detailed requirement
Zinc Aluminium Sheets	Remove, dispose existing damaged zinc aluminum sheets and replace with 20x Springlok 700 Zincalume AZ200 Sheeting.
Vents	Remove, dispose existing 6x vents and replace with 12x Springlok 700 Zincalume AZ200, including framing/closures required for a watertight detail.
Barge flashing	Remove, dispose existing barge flashing and replace with 2x 10 m barge flashing
Ridge capping	Remove, dispose existing ridge capping and replace with 38 m galvanized mild steel ridge capping
South gutter	Remove, dispose existing asbestos gutter and replace 38 m gutter with 150 mm PVC gutter.
South downpipes	Remove, dispose existing asbestos downpipes and replace with 4x 110 mm PVC downpipes, 8 m height.

B.10 Plate Shop – Building 621

Element	Detailed requirement
Zone C Nutec roof sheets	Remove, dispose existing asbestos roof sheets and replace with 54x Nutec sheets.
Zone C north cladding	Remove, dispose existing asbestos side cladding and replace with 20x Nutec sheets.
Zone C south cladding	Remove, dispose existing asbestos side cladding and replace with 20x Nutec sheets.

ANNEXURE B

Element	Detailed requirement
Zone B and C vents	Remove, dispose existing 7x vents and replace with 14x Nutec profiled roof sheets, including framing/closures required for a watertight detail.
Zone A Nutec roof sheets	Remove, dispose existing asbestos side cladding and replace with 40x Nutec sheets.
Zone B Nutec roof sheets	Remove, dispose existing asbestos side cladding and replace with 16x Nutec sheets.
North barge flashing	Remove, dispose existing barge flashing and replace with 3x 10 m barge flashing
Zone C Zinc aluminium box gutters	Remove, dispose the existing zinc aluminium box gutter and replace with approximately 47 m box gutter and waterproof. Box gutter dimensions: 1 200 mm x 500 mm x 3mm
Zone C east gutter	Remove, dispose existing asbestos gutter and replace 47 m gutter with 150 mm PVC gutter and fit 3x 110 mm PVC downpipes, 8 m height.
Zone C west gutter	Remove, dispose existing asbestos gutter and replace 47 m gutter with 150 mm PVC gutter and fit 3x 110 mm PVC downpipes, 8 m height.
Zone A south gutter	Remove, dispose existing asbestos gutter and replace 8 m gutter with 150 mm PVC gutter and fit 2x 110 mm PVC downpipes, 7 m height.

B.11 Ex-Blacksmith Workshop – Building 620

Element	Detailed requirement
Nutec roof sheets	Remove, dispose existing asbestos side cladding and replace with 40x Nutec sheets.
Nutec ridge capping sheets	Remove, dispose existing asbestos side cladding and replace with 48x Nutec sheets.
East cladding	Remove, dispose existing asbestos side cladding and replace with 16x Nutec sheets.
North barge flashing	Remove, dispose existing barge flashing and replace with 2x 10 m barge flashing

ANNEXURE B

Element	Detailed requirement
Ridge capping	Remove, dispose existing ridge capping and replace with 37 m Nutec ridge capping.
East gutter	Remove, dispose existing asbestos gutter and replace 16 m gutter with 150 mm PVC gutter and fit 2x 110 mm PVC downpipes, 7 m height.
East gutter	Remove, dispose existing asbestos gutter and replace 16 m gutter with 150 mm PVC gutter and fit 2x 110 mm PVC downpipes, 8 m height.
West gutter	Remove, dispose existing asbestos gutter and replace 16 m gutter with 150 mm PVC gutter and fit 3x 110 mm PVC downpipes, 8 m height.

B.12 Scaffolding Workshop – Building 1037

Element	Detailed requirement
Zinc Aluminium roof sheets	Remove, dispose existing mild steel sheet and replace with 70x Springlok 700 Zinalume AZ200 Sheeting on the roof and side cladding.
Ridge capping	Remove, dispose existing ridge capping and replace with 37 m Nutec ridge capping.
North gutter	Remove, dispose existing asbestos gutter and replace 9 m gutter with 150 mm PVC gutter and fit 2x 110 mm PVC downpipes, 6 m height.
North gutter	Remove, dispose existing asbestos gutter and replace 7 m gutter with 150 mm PVC gutter and fit 1x 110 mm PVC downpipes, 6 m height.
North fascia boards	Remove, dispose existing fascia board and replace with approximately 21 m with Nutec fascia board.
South gutter	Remove, dispose existing asbestos gutter and replace 21 m gutter with 150 mm PVC gutter and fit 2x 110 mm PVC downpipes, 6 m height.
South fascia boards	Remove, dispose existing fascia board and replace with approximately 37 m with Nutec fascia board.

ANNEXURE B

B.13 Docking Workshop – Building 656

Element	Detailed requirement
Zinc Aluminium Sheets	Remove, dispose existing damaged zinc aluminum sheets and replace with 30x Springlok 700 Zinalume AZ200 Sheeting.
Ridge capping	Remove, dispose existing ridge capping and replace with 24 m galvanized mild steel ridge capping.
Zinc aluminium box gutters	Clean, repair and waterproof 4x existing zinc aluminium box gutters, 24 m long.
West downpipes	Remove, dispose existing asbestos downpipes and replace with 1x 110 mm PVC downpipes, 10 m height.

B.14 Foundry – Building 656

Element	Detailed requirement
Zinc Aluminium Sheets	Remove, dispose existing damaged zinc aluminum sheets and replace with 30x Springlok 700 Zinalume AZ200 Sheeting.
Nutec roof sheets	Remove, dispose existing asbestos roof sheets and replace with 2x Nutec sheets.
Ridge capping	Remove, dispose existing ridge capping and replace with 24 m galvanized mild steel ridge capping.
East barge flashing	Remove, dispose existing barge flashing and replace with 2x 10 m barge flashing
Zinc aluminium box gutters	Clean, repair and waterproof 2x existing zinc aluminium box gutters, 24 m long.
Zinc aluminium box gutters	Clean, repair and waterproof 2x existing zinc aluminium box gutters, 36 m long.
West downpipes	Remove, dispose existing asbestos downpipes and replace with 6x 110 mm PVC downpipes, 7 m height and 1x 110 mm PVC downpipe, 10m height.

ANNEXURE B

Element	Detailed requirement
East downpipes	Remove, dispose existing asbestos downpipes and replace with 6x 110 mm PVC downpipes, 7 m height and 1x 110 mm PVC downpipe, 10m height.

B.15 ICE Workshop – Building 656

Element	Detailed requirement
Zinc Aluminium Sheets	Remove, dispose existing damaged zinc aluminum sheets and replace with 20x Springlok 700 Zincalume AZ200 Sheeting.
Zinc aluminium box gutters	Clean, repair and waterproof 4x existing zinc aluminium box gutters, 36 m long.
West downpipes	Remove, dispose existing asbestos downpipes and replace with 4x 110 mm PVC downpipes, 10 m height.
East downpipes	Remove, dispose existing asbestos downpipes and replace with 5x 110 mm PVC downpipes, 12 m height.
East downpipes	Remove, dispose existing asbestos downpipes and replace with 5x 110 mm PVC downpipes, 2 m height.

B.16 Pump Station – Building 655

Element	Detailed requirement
Nutec roof sheets	Remove, dispose existing asbestos roof sheets and replace with 30x Nutec sheets.
Ridge capping	Remove, dispose existing ridge capping and replace with 37 m Nutec ridge capping.
West gutter	Remove, dispose existing asbestos gutter and replace 37 m gutter with 150 mm PVC gutter.
West downpipes	Remove, dispose existing asbestos downpipes and replace with 2x 110 mm PVC downpipes, 9 m height.
North downpipes	Remove, dispose existing asbestos downpipes and replace with 2x 110 mm PVC downpipes, 9 m height.

ANNEXURE B

Element	Detailed requirement
Zinc aluminium box gutters	Clean, repair and waterproof 4x zinc aluminium box gutters of approximately 520 mm x 230 mm x 27 m and 1x zinc aluminium box gutter of approximately 400 mm x 300 mm x 37 m.

B.17 Gun Workshop – Building 674

Element	Detailed requirement
Nutec roof sheets	Remove, dispose existing asbestos roof sheets and replace with 10x Nutec sheets.
West gutter	Remove, dispose existing asbestos gutter and replace 80 m gutter with 150 mm PVC gutter.
West downpipes	Remove, dispose existing asbestos downpipes and replace with 6x 110 mm PVC downpipes, 8 m height.
Zinc aluminium box gutters	Clean, repair and waterproof 3x zinc aluminium box gutters, 6 m.
East downpipes	Remove, dispose existing asbestos downpipes and replace with 2x 110 mm PVC downpipes, 7 m height.

B.18 Generator Station Messroom – Building 676

Element	Detailed requirement
Nutec roof sheets	Remove, dispose existing asbestos roof sheets and replace with 4x Nutec sheets.

ANNEXURE B

B.19 SAFS Facilities – Building 675

Element	Detailed requirement
Nutec roof sheets	Remove, dispose existing asbestos roof sheets and replace with 80x Nutec sheets.
South flashing	Remove, dispose and replace 20 m flashing with Nutec flashing.
Ridge capping	Remove, dispose existing ridge capping and replace with 2x 37 m Nutec ridge capping.
Downpipes	Remove, dispose existing asbestos downpipes and replace with 4x 110 mm PVC downpipes, 8 m height.
Zinc aluminium box gutters	Clean, repair and waterproof 2x zinc aluminium box gutters, approximately 38 m and 26 m long.
South 150 mm downpipe	Remove, dispose existing and dispose existing asbestos downpipe from the box gutter and replace with one 150 mm PVC downpipe approximately 8 m height.
South fascia boards	Remove, dispose existing fascia board and replace with approximately 20 m with Nutec fascia board.
North fascia boards	Remove, dispose existing fascia board and replace with approximately 2x 10 m with Nutec fascia board.
South 150 mm downpipe	Replace a further one 150 mm PVC downpipe approximately 8 m height.
West gutter	Remove, dispose existing asbestos gutter and replace 21 m gutter with 150 mm PVC gutter.
West downpipes	Remove, dispose existing asbestos downpipes and replace with 3x 110 mm PVC downpipes, 7 m height.

ANNEXURE C

ANNEXURE C – PRICING SCHEDULE

The service provider shall complete, in full, the pricing schedule below:

PRICING SCHEDULE				
ITEM NO:	ITEM DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	ZincAlume Roof Sheet (10m)	462		
2	Nutec Roof Sheet (920 x 3600 x 3 mm)	426		
3	Galvanised Mild Steel Ridge Capping (38m)	5		
4	Galvanised Mild Steel Bage Flashing (20m)	6		
5	Ridge Cap Adjustable Internal Wing Close Nutec (325 x 875mm)	168		
6	Barge Board Socketless (200 x 80mm x 3000mm)	18		
7	Klip-Lok 700 Clip (Brackets, 9 Per Sheet)	1000		
8	TFix Corroshield	5000		
9	125mm Half Round PVC Gutter (125 x 87mm x 6m)	30		
10	150mm Half Round PVC Gutter (146 x 93mm x 6m)	100		
11	110mm (dia.) Down Pipe (3mm x 6m)	120		
12	120mm Screw Roof & Washer Nutec	3600		
13	Piping Joints, Shoes and Connectors	Sum		
14	Zinc Aluminium Box Gutter (1200mm x 500mm x 3mm) x 47m (Bld 621)	1		
15	Clean, Repair and Waterproof 3x Zinc Aluminium Box Gutter (Length: 37m) -Bld 793	3		
16	Clean, Repair and Waterproof 4x Zinc Aluminium Box Gutter (Length: 24m) -Bld 656	4		
17	Clean, Repair and Waterproof 10x Zinc Aluminium Box Gutter (Length: 24m) -Bld 656	10		
18	Clean, Repair and Waterproof 2x Zinc Aluminium Box Gutter (Length: 36m) -Bld 656	2		
19	Clean, Repair and Waterproof 4x Zinc Aluminium Box Gutter (Length: 36m) -Bld 656	4		
20	Nutec Fascia Board (912 x 225 x 3000mm)	80		
21	2.5m x 50mm ABE Super Waterproof Laykold Tape	100		
22	300 ml Silicon Sealant	100		
23	Acrylic waterproofing system SIKA RAINITITE	20		

ANNEXURE C

24	Labour	Sum		
25	Transportation	Sum		
26	Roof Access Requirements i.e., scaffolding	Sum		
27	Removal and Disposal	Sum		
28	TOTAL:			
29	VAT			
TOTAL: (INCLUDING VAT)				