

## INVITATION TO BID

### **REQUEST FOR BID DESCRIPTION:** **PROCUREMENT OF LAN ACCESS SWITCHES AND CABLING FOR ARMSCOR HEAD OFFICE AND REMOTE SITES**

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#### **NOTE:**

**Kindly register on the National Treasury's Central Supplier Database (CSD) via [www.csd.gov.za](http://www.csd.gov.za)**

*Bids must ONLY be submitted in hard copy; electronic bid submissions are NOT acceptable.*

**ARMAMENTS CORPORATION OF SOUTH AFRICA SOC LTD  
(ARMSCOR)**

Company registration: 1968/008611/06    Vat registration: 4500101169

**REQUEST FOR BID: EICT/2021/26**

**1. INSTRUCTIONS ON SUBMISSION OF BIDS**

- 1.1 Bid Closing at **11:00 am on 21 February 2022 (SOUTH AFRICAN TIME)**
- 1.2 Bids must be submitted in a sealed envelope marked with this bid reference number.
- 1.3 The sealed envelope must be deposited in the bid box at Armscor Head Office, Visitors Entrance (Block) 8 before the bid closing date and time addressed to:  
  

The Manager:	Supply Chain Management Department Armscor SOC Ltd
Postal address:	Armscor SOC Ltd Private Bag X337 Pretoria 0001
Delivery address:	Armscor Head Office 370 Nossob Street Erasmuskloof Ext 4 Pretoria
- 1.4 Bids dispatched by the courier service Company must be marked with bid reference number on the delivery note / packaging and the courier must ensure that the bid document is deposited in the bid box before the closing date and time. **Armscor will not be held responsible for any delays where bid documents are handed to the Armscor Reception.**
- 1.5 Bid proposals received after the closing time and date will not be considered.

**2. ENQUIRIES**

- 2.1 All queries regarding this bid must be addressed in writing to SCM Department on [aopts@armscor.co.za](mailto:aopts@armscor.co.za). Questions/enquiries relating to this RFB should be received three working days prior to the closing date. Queries received after this period will not be entertained.

**3. BID VALIDITY PERIOD**

Bid proposals to remain valid for acceptance for a period of **ONE HUNDRED AND EIGHTY** days counted from the closing date.

**NOTE:** Bids for the supply of the goods and/or services described in the attached documents are invited in accordance with the provisions of the General Conditions of Contract (A-STD-0020) Issue 4 dated 14 February 2020 and the Rules of Procedure for Offerors (A-STD-0010) Issue 2 dated 21 April 2014, as well as any special condition contained in these documents. Copies of the General Conditions of Contract and the Rules of Procedure are available on Armscor's website at [www.armscor.co.za](http://www.armscor.co.za).

## RETURNABLE DOCUMENTS CHECKLIST

Bidders are required to develop a returnable schedule annexure in accordance with the following table of contents

	List of documents required.	Submitted [Yes or No]	
		Yes	No
1.	Central Supplier database (CSD) registration report or Unique Registration Reference Number	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.	Valid Tax Clearance Certificate (s) and or proof of application endorsed by SARS and / or SARS issued verification pin code.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3.	Copies of bidders CIPC Company registration documents listing all members with percentage, See bidding structure for required documents.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.	Copy of the Joint Venture / Consortium Agreement duly signed by all parties	Yes <input type="checkbox"/>	No <input type="checkbox"/>
5.	Copy of the Sub-Contracting Agreement duly signed by all parties	Yes <input type="checkbox"/>	No <input type="checkbox"/>
6.	Valid proof of BBBEE status for the bidder and its sub-contractor(s)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
7.	Designated sectors: Local production and content. <b>(Where applicable)</b>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
8.	Originally certified copy of Identity Document for the Company representative	Yes <input type="checkbox"/>	No <input type="checkbox"/>
9.	Copy of latest audited financial statements	Yes <input type="checkbox"/>	No <input type="checkbox"/>
10.	Bid conditions acceptance form on KD17 <b>(Mandatory)</b>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

**BIDDING STRUCTURE**

Indicate the type of bidding structure by marking with an 'X' in an appropriate box.	
Individual Bidder	
Joint Venture	
Consortium	
Using Sub-contractors	
Other	

**Only fill the relevant category:**

If individual bidder, indicate the following:	
Name of Bidder	
Company / Close Corporation Registration Number	
VAT Registration Number	
National Treasury Supplier Number	
Unique Registration Reference Number	
Contact Person	
Telephone Number	
Fax Number	
Email Address	
Postal Address	
Physical Address	
<b>NB: Submit with the bid the following documents:</b>	
Copies of the bidder's CIPC company registration documents listing all members with percentages, in case of a CC.	
In case of Individual Bidder supply ID document for local and if foreigner supply passport number or identification as applicable in that country	
Latest copies of all share certificates, in case of a company or any other form of a legal entity.	
Shareholding breakdown per race, gender and percentage shareholding with shareholders of the bidding entity.	

<b>If Joint Venture or Consortium, indicate the following: (To be completed for each JV/Consortium member)</b>	
Name of Joint Venture / Consortium	
Company / Close Corporation Registration Number	
VAT Registration Number	
National Treasury Supplier Number	
Unique Registration Reference Number	
Contact Person	
Telephone Number	
Fax Number	
Email Address	
Postal Address	
Physical Address	
<b>NB: Submit with the bid the following documents:</b>	
Copies of the bidder's CIPC company registration documents listing all members with percentages, in case of a CC.	
In case of Individual Bidder supply ID document for local and if foreigner supply passport number or identification as applicable in that country	
Latest copies of all share certificates, in case of a company or any other form of a legal entity.	
Shareholding breakdown per race, gender and percentage shareholding with shareholders of the bidding entity.	

<b>If Joint Venture or Consortium, indicate the following:</b>	
Name of Prime Contractor	
Company / Close Corporation Registration Number	
VAT Registration Number	
National Treasury Supplier Number	
Unique Registration Reference Number	
Contact Person	
Telephone Number	
Fax Number	
Email Address	
Postal Address	
Physical Address	
<b>NB: Submit with the bid the following documents:</b>	
Copies of the bidder's CIPC company registration documents listing all members with percentages, in case of a CC.	
In case of Individual Bidder supply ID document for local and if foreigner supply passport number or identification as applicable in that country	
Latest copies of all share certificates, in case of a company or any other form of a legal entity.	
Shareholding breakdown per race, gender and percentage shareholding with shareholders of the bidding entity.	

<b>If using subcontractors, indicate the following:</b>	
Name of Prime -Contractor	
Percentage Value to be subcontracted	
Company / Close Corporation Registration Number	
VAT Registration Number	
National Treasury Supplier Number	
Unique Registration Reference Number	
Contact Person	
Telephone Number	
Fax Number	
Email Address	
Postal Address	
Physical Address	
<b>Subcontractor Details:</b>	
Name of Subcontractor	
Company / Close Corporation Registration Number	
VAT Registration Number	
National Treasury Supplier Number	
Unique Registration Reference Number	
Contact Person	
Telephone Number	
Fax Number	
Email Address	
Postal Address	
Physical Address	
<b>NB: Submit with the bid the following documents for both Prime and Sub-Contractors:</b>	
Copies of the bidder's CIPC company registration documents listing all members with percentages, in case of a CC.	
In case of Individual Bidder supply ID document for local and if foreigner supply passport number or identification as applicable in that country	
Latest copies of all share certificates, in case of a company or any other form of a legal entity	
Shareholding breakdown per race, gender and percentage shareholding with shareholders of the bidding entity.	

<b>Other:</b>	
Name of Bidder	
Company / Close Corporation Registration Number	
VAT Registration Number	
National Treasury Supplier Number	
Unique Registration Reference Number	
Contact Person	
Telephone Number	
Fax Number	
Email Address	
Postal Address	
Physical Address	
<b>NB: Submit with the bid the following documents:</b>	
Copies of the bidder's CIPC company registration documents listing all members with percentages, in case of a CC	
In case of Individual Bidder supply ID document for local and if foreigner supply passport number or identification as applicable in that country	
Latest copies of all share certificates, in case of a company or any other form of a legal entity.	
Shareholding breakdown per race, gender and percentage shareholding with shareholders of the bidding entity.	

**Declaration:**

I, as the duly authorized representative of the bidder hereby authorize Armscor to request, investigate and process company information including tax compliance via the SARS website.

.....  
Name

.....  
ID number

### Declaration of Bidder's Past Supply Chain Management Practices

This Standard Bidding Document serves as a declaration to ensure that goods and services being procured are aligned with all reasonable steps are taken to combat the abuse of the supply chain management system. The bid of any bidder may be disregarded if that bidder or any of its directors have been involved in the abuse of public institution's supply chain management system

**In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Item	Question	Yes	No
1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?  (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).  <b>The Database of Restricted Suppliers now resides on the National Treasury's website(<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</b>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	If so, furnish particulars:		
2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?  The Register for Tender Defaulters can be accessed on the National Treasury's website ( <a href="http://www.treasury.gov.za">www.treasury.gov.za</a> ) by clicking on its link at the bottom of the home page.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	If so, furnish particulars:		
3	Was the bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	If so, furnish particulars:		
4	Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	If so, furnish particulars:		

### CERTIFICATION

I, the undersigned (full name).....certify that the information furnished on this declaration form is true and correct.

I accept that, in addition to cancellation of a contract, action may be taken against me should this declaration prove to be false.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of bidder



**BID CONDITIONS ACCEPTANCE FORM****Bidders shall complete and sign this bid conditions acceptance form**

I/We hereby offer to supply all or some of the supplies and/or services described in the Pricing Schedule and /or attached documents on the terms and conditions and in accordance with the conditions set out in A-STD-0010 Issue 2 dated 21 April 2014 and A-STD-0020 Issue 4 dated 14 February 2020 (and I/we acknowledge that I/we am/are acquainted therewith) at the price and on the terms of delivery/execution inserted by me/us.

I/We agree ☐

1. that this bid shall remain binding on me/us and open for acceptance for the period stipulated above;
2. that if my/our bids is accepted, the acceptance will be communicated to me/us by letter or order through the post, and such acceptance shall constitute a contract between me/us and Armscor, subject to the terms and conditions set out in Armscor's General Conditions of Contract (A-STD-0020), Issue 4 dated 14 February 2020, the contents of which I/we acknowledge ourselves to be acquainted with.

I/We choose as domicilium citandi et executandi in the Republic

.....

.....

(no post box or private bag)

IN BLOCK LETTERS ON BEHALF OF -

Complete registered:

Name of bidder:.....

**AUTHORISED SIGNATURE**

..... Date: .....

Name in block letters: .....

Capacity: .....

**NB: FAILURE TO COMPLETE AND SIGN THIS PAGE SHALL INVALIDATE THE BID AND WILL BE DISQUALIFIED FROM FURTHER EVALUATION.**

**SUPPLIER REGISTRATION**

- 1.1 Bidders must register on the National Treasury Central Supplier Database (CSD) in terms of National Treasury Instruction Note 3 of 2016/17.
- 1.2 Bidders must electronically register for Security on Armscor website to be considered for orders which are administered by Armscor SOC Ltd on Behalf of clients.

For more information on security registration contact:-

**The Security Registration**

**Private Bag X337**

**PRETORIA**

**0001**

**E-mail:- register@armscor.co.za**

**ALL BIDDERS SHALL COMPLY WITH THE FOLLOWING:**

1. Bidders should check the numbers of the pages correspond with the table of contents as no liability arising from claims owing to the omission or duplication of pages will be recognised by Armscor. The appendices mentioned in these pages form part of the bids.
2. **All bidders shall -**
  - 2.1. insert their name at the top of each price schedule form used (a rubber stamp may be used);
  - 2.2. insert the information in the spaces provided in the price schedules by writing or typing on the dotted lines only (additional information should be contained in a separate annexure);
  - 2.3. if they wish to make more than one bid against an item, as an alternative, apply for additional copies of the bid documents or photocopy one or more pages, and not retype or redraft any of the forms used;
  - 2.4. indicate the prices quoted in the units shown and quote them per item;
  - 2.5. indicate in respect of each item whether the goods/services quoted comply strictly with the specified requirements, and furnish particulars of deviations if this is not so;
  - 2.6. complete all appendices.
3. **Value-added tax, customs duties, *ad valorem* customs duties and surcharges:**
  - 3.1. Value added tax levied by the Receiver of Revenue must not be included in the prices quoted but be shown as a separate line item.
  - 3.2. Where supplies are quoted which are subject to levying of any customs duty, *ad valorem* customs or excise duty or surcharge by the Department of Customs and Excise, such charges must not be included by the bidder in the prices quoted. The applicable customs duty, *ad valorem* customs or excise duty or surcharge must, however, be indicated separately where provided for on Armscor's Questionnaire
4. **Security:**
  - 4.1. Classified bids are to be handled in the manner set out in Armscor's Security Instruction, document number A-WI-014, copies of which are obtainable on request from the Contractor Security Section, P O Box 411, Pretoria, 0001.
  - 4.2. Attention is drawn particularly to the procedure set out in chapter 4 of the manual, which is to be complied with when forwarding classified documents.

**5. Broad-Based Black Economic Empowerment Compliance:**

- 5.1 In terms of the Defence Sector Codes, contracts for goods and services shall only be awarded to a bidder that has Black Equity Ownership of at least 25% in year 1(12 April 2019 to 31 March 2020), 30% in year 2 (01 April 2020 to 31 March 2021) and 35% in year 3 (01 April 2021) onwards, where applicable.
- 5.2 Failure to comply with the **B-BBEE Mandatory and Compulsory requirements** as stated in the KD24 will lead to disqualification.

**6. Advance payments:**

Bidders shall furnish the price without advance payment. (Consult paragraph 8 of A-STD-0010).

**7. Performance Guarantee:**

Armcor reserves the right to request the successful bidder to submit a performance guarantee for the proposed contract. Bidders must submit prices without provision for the performance guarantee as well as prices including the cost of such a guarantee.

**8. Commissions:**

If any commission is payable by yourself to any person(s) or body as a result of any order which may arise from this Request for Proposal, you must submit full details of the applicable person(s) or body and the amount payable, with this bid.

**9. Tax Compliance Requirements**

**It is a condition of bid that the successful bidder MUST be tax compliant, or that satisfactory arrangements have been made with the South African Revenue Service (SARS) to meet the bidder's tax obligations. FOREIGN COMPANIES ARE REQUIRED TO COMPLETE QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS OF ANNEXURE 1 TO KD 25**

- 9.1 In order to meet this requirement the bidder is required to access SARS e-filing and complete the SARS ONLINE "SARS tax compliance status" under tax status. Tax compliance requirements are also applicable to individuals who wish to submit bids.
- 9.2 SARS will then furnish the bidder with a Tax compliance PIN code that will be valid for a period of 1 (one) year from the date of approval.
- 9.3 The Tax compliance PIN letter shall be submitted with the bid, with an authorisation letter for Armcor to use the PIN code for verification of tax compliance status of the supplier.
- 9.4 In bids where Consortia /Joint Ventures / are involved, each party must submit a separate tax compliance PIN with authorisation letter.
- 9.5 In the event of subcontracting, tax compliance PIN letter and authorisation letter for the subcontractor must also be submitted with the bid.

- 9.6 Tax compliance is done via e-filing on the SARS website [www.sars.gov.za](http://www.sars.gov.za).
- 9.7 Original valid tax clearance certificates issued before 18 April 2016 are still valid until the expiry date or on replacement with SARS tax compliance PIN.

**NOTE: Armscor Suppliers /Bidders and Subcontractors must remain tax compliant for the duration of their contracts.**

**10. Awarding of Bids**

The awarding of bids will be in terms of the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017.  
The applicable points are:

**Price: (Pp) 80 Points**

**Broad-Based Black Economic Empowerment: 20 Points**

**Total: 100 Points**

The following formula will be used to calculate the points in respect of a bid up to a rand value of R50 000 000, 00 (all applicable taxes included).  
(Armscor may also apply this formula to price quotations with a value of less than R30 000, if and when appropriate):

$P_s = P_p$

Provided that  $\sum (P_{pa}) = 80$

Where:

$P_s$	= points scored for bid/bid under consideration
$P_p$	= points scored for price
$a$	= allocated

The points scored for price ( $P_p$ ) =  $P_{pa} * (1 - \frac{P_t - P_m}{P_m})$

Where:  $P_{pa}$  = points allocated for price

$P_t$  = comparative price of bid/bid under consideration

$P_m$  = comparative price of lowest acceptable bid/bid

**11. Objective Criteria**

- 11.1 A contract may be awarded to a bidder that did not score the highest points only in accordance with section 2 (1) (f) of the Act. If Armscor intends on applying objective criteria in terms of section 2(1) (f) of the Act, this will be stated in the bid document.

**12. Mandatory local production and content for designated sectors**

- 12.1 When applicable, bids not meeting the mandatory local production and content for designated sectors will not be considered for further evaluation.
- 12.2 A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 12.3 If there is no designated sector, Armscor will include as a specific condition of the bid, that only locally produced services or goods or locally manufactured goods with a stipulated minimum threshold for local production and content, will be considered.

KD17

BID NUMBER : EICT/2021/26

CLOSING AT 11:00 ON : 21 February 2022

VALIDITY PERIOD: 180 DAYS

NAME OF BIDDER :

ITEM NO	DESCRIPTION	QTY	UNIT PRICE IN FOREIGN CURRENCY	UNIT PRICE IN S.A. CURRENCY	SUBTOTAL
	<b>PROCUREMENT OF LAN ACCESS SWITCHES AND CABLING FOR ARMSCOR HEAD OFFICE AND REMOTE SITES (REFER TO PARAGRAPH 12 - PAGE 38 TO 45 FOR DETAILED PRICE SCHEDULE)</b>  <b>Mandatory Black Equity Ownership</b> April 2021/22 – Minimum 35% - applicable  <ul style="list-style-type: none"> <li>Pre-qualification criteria (Regulation 4) – Level 3 or better</li> </ul>				
TOTAL (excluding VAT)					
VAT					
TOTAL (including VAT)					

1. Delivery address: As per ARMSCOR RFB.
  2. \* Period required for commencement of delivery, after receipt of order:.....
  3. \* Rate of delivery: .....
  4. \* Period required for completion of order, after receipt thereof:.....
- \* Must be completed by Bidder if not completed by Armscor.

Customer Focus : Care and Respect for Others : Excellence : Integrity : Leading by Example : Results Driven : Teamwork

REQUEST FOR BID NO.: 2603-18-01-34/1



# **PROCUREMENT AND MAINTENANCE OF LAN ACCESS SWITCHES AND CABLING FOR ARMSCOR HEAD OFFICE AND REMOTE SITES**

## **REQUEST FOR BID**

### **TITLE PAGE**

**DATE** 2021-11-10

**TITLE:** REQUEST FOR BID FOR THE PROCUREMENT AND  
MAINTENANCE OF LAN ACCESS SWITCHES AND  
CABLING FOR ARMSCOR HEAD OFFICE AND  
REMOTE SITES.

The information contained in this document is company confidential and is not to be communicated to third parties other than those directly involved in the bid process for the procurement and maintenance of LAN Access switches and cabling for ARMSCOR Head office and remote sites.

## **APPROVAL PAGE**

File No : 2603-18-01-34/1	Issue: 1	Date: 2021-11-10	Page: 1	of: 53
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## SUPPLY CHAIN MANAGEMENT

### PROCUREMENT AND MAINTENANCE OF LAN ACCESS SWITCHES AND CABLING FOR ARMSCOR HEAD OFFICE AND REMOTE SITES.

REVISION NO : 1

REVISION DATE :

PREPARED BY :

SUPPORTED BY:

APPROVED BY :



## SUPPLY CHAIN MANAGEMENT

## AMENDMENT HISTORY

DOCUMENT ISSUE	DATE	PAGE NUMBER	PAGE REVISION	SECTION/ CHAPTER	CHANGE PROPOSAL NUMBER	CHECKED BY





## SUPPLY CHAIN MANAGEMENT

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## SUPPLY CHAIN MANAGEMENT

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## **ABBREVIATIONS**

The following is a list of abbreviations used in the Request for Bid document (RFB):

ARMSCOR	Armaments Corporation of South Africa Limited
Blanks	Blanking Plate
CAT 6	Category 6 Copper Cable
CIPC	Companies and Intellectual Property Commission
CPM	Contractor Product Manager
DAC	Digital to Analogue Converter
ETC.	Etcetera
Gb	Gigabit
GBIC	Gigabit Interface Converter
ICT	Information & Communication Technology Division
JV	Joint Venture
LAN	Local Area Network
LC	Lucent Connector
MLAG	Multiple Link Aggregation Group
MM	Multimode Fiber
NBD	Next Business Day
OEM	Original Equipment Manufacturer
PoE	Power over Ethernet
QA	Quality Assurance
QSFP	Quad Small Form Factor Pluggable

**SUPPLY CHAIN MANAGEMENT**

RFB	Request for Bid
RMA	Return Merchandise Authorization
SFP	Small Form Factor Pluggable Transceiver or mini-GIBIC
SM	Single Mode (fiber)
SOW	Statement of Work
ST	Straight Tip Connector
TAC	Technical Assistance Call
U (eg. 12U)	Standard Measuring Unit for Rack Mount Equipment
VOIP	Voice over IP
Wi-Fi	Wireless Fidelity
WBS	Work Breakdown Structure



## SUPPLY CHAIN MANAGEMENT

### CHAPTER 1

#### 1. INTRODUCTION

##### 1.1 BACKGROUND:

- 1.1.1 The purpose of the document is to define the requirements for the Local Area Network (LAN) switching environment for Armcor Dockyard, IMT, Alkantpan, Gerotek, Protechnik and Armcor Head Office, including the hardware, fibre and service level requirements.

The current infrastructure is 1 GB fibre capacity to endpoint devices and only 1 GB fibre backhaul capacity to the core/distribution switches. This capacity is not adequate and needs to be upgraded to 2 x 10 GB (1/10 GB) fibre links per distribution and/or access layer locations to the core switches. In view of future projects such as voice over IP (VoIP), Video Conferencing and Wi-Fi, the new LAN must also have Power over Ethernet (PoE+) capability.

##### 1.2 PROJECT OBJECTIVES

- 1.2.1 The objective of the project is to upgrade the LAN access layer switches to PoE+. The upgrade shall include a 1 GB fibre capacity upgraded to 2 x 10 GB fibre linking back to the core or distribution switches at each of the six locations. This will include the cleanup of all cabinets to ensure that the environment is adequately prepared for the installation of new equipment. The project also requires the supply and installation of new switches, as well as upgrading the fibre infrastructure to accommodate the capacity of 10 GB per fibre link back to the core or distribution switches at each of the four locations. The solution shall also include a 5-year service contract.

##### 1.3 STRATEGY AND APPROACH:

It is of utmost importance that the Bidder adheres as fully as possible to the requirements.



## SUPPLY CHAIN MANAGEMENT

### 1.4 Bidders Briefing

A non-compulsory Bidders briefing and sites visit will be held at ARMSCOR Head Office and various sites on dates as indicated below and will start at 09h00. Site visits will start at 09h00, except for IMT that will start at 13h00:

Site Names :	Address
Armcor Head Office – 01 February 2022	370 Nossob Street. Corner Delmas Avenue and Nossob Street. Erasmuskloof Ext 4. Pretoria
Protechnik (PEH) – 02 February 2022	103 Combretum Crescent, Highveld Techno Park , Centurion
Gerotek Test Facility – 03 February 2022	334 WF Nkomo Street, Pretoria West
Alkantpan – 08 - 09 February 2022	Co-ordinates 29.9529° S, 22.2474° E. Copperton, Northern Cape
Institute for Maritime Technology (IMT) – 10 February 2022	Martello Road, Simon's Town
Armcor Dockyard – 11 February 2022	Colepoint Road, Colepoint Gate, East Yard, Simon's Town

NB: Bidders attending the bidders briefing and site visits must submit name, designation, company name, copy of identification document and contact details of the attendee two work days in advance to the following e mail address: [scmbids@armcor.co.za](mailto:scmbids@armcor.co.za) (Attendance is restricted to one person per company. No attendee will be allowed without a booking because of limited space and COVID 19 regulations.

### 1.5 ORDER PERIOD:

Armcor intends placing an order for a period of five (5) years subject to budget constraints.

### 1.6 APPLICABLE DOCUMENTATION:

1.6.1 Armcor's Contract Conditions: Technical Standards (A-STD61) parts 5 and 6.

1.6.2 A-DOC-9045: Terms of reference for the Bid Evaluation Committee

1.6.3 A-PROC-9053: Practice for the Selection of Contractual Sources.

1.6.4 A-DOC 9046: Terms of Reference for the Bid Specification Committee

1.6.5 Preferential Procurement Policy Framework Act No. 5 of 2000: Preferential Procurement Regulations 2017 – Practice Note 1 of 2017.

## SUPPLY CHAIN MANAGEMENT

1.6.6 B-BBEE Act 53 of 2003

1.6.7 PFMA Act 1 of 1999

1.6.8 National Travel Policy Framework.

1.6.9 National Treasury Circular No. 4 of 2016/17

1.6.10 Treasury Instruction No. 4 of 2017/18 which must be read in conjunction with the National Treasury Instruction No. 2 of 2017/18 that gives effect to the National Travel Policy Framework.

**CHAPTER 2****2. GENERAL INSTRUCTIONS FOR THE COMPLETION OF THE BID****2.1 COMPLETENESS OF DOCUMENTATION:**

- 2.1.1** The Bidder is required to ensure that the bid pages and appendices are complete, correct and consistent.
- 2.1.2** The Bidder is required to ensure that Armscor's bid document KD17 hereto attached is properly completed and signed. Bidder to ensure that the bid documents are thoroughly scrutinized and all required information are completed in full to avoid disqualification based on omitted evidence.

**2.2 FORMAT AND PRESENTATION OF BID:**

The bid shall be submitted **STRICTLY** in accordance with the headings and numbering system used in the RFB.

**2.3 ADDITIONAL INFORMATION:**

- 2.3.1** Any additional information and changes supplied by Armscor concerning this RFB will be furnished in writing and will be sent to a Bidder simultaneously as an addendum to the RFB.
- 2.3.2** Any clarification required by a Bidder regarding the meaning or interpretation of this RFB shall be requested in good time and in writing to allow Armscor's reply to reach a Bidder before the closing date of this RFB.

**2.4 NUMBER OF BID COPIES:**

The Bidder is required to submit one (1) original bid to Armscor Head Office, 370 Nossob Street. Corner Delmas Avenue and Nossob Street. Erasmuskloof Ext 4. Pretoria.

**2.5 COMMUNICATION:**

The Bidder shall appoint a Contractor Product Manager (*CPM*) for communication with Armscor. The details of this person shall be included in the content of the bid.





## SUPPLY CHAIN MANAGEMENT

**CHAPTER 3****3. CONTRACTING ELEMENTS****3.1 PHILOSOPHY:**

**3.1.1** The Bidder shall make visible his strategy for the Statement of Work (SOW) during the bid stage and the implementation mechanisms thereof for the required contracting period.

**3.1.2** Chapter 5 contains the detail of the requirements to be provided by the Bidder.

**3.2 DELIVERY PERIOD:**

The Bidder shall include, in the bid, the delivery periods for the services and deliverables resulting from this bid.

**3.3 CONDITIONS OF PAYMENT:**

**3.3.1** All invoices must be submitted to Armscor. The procedures as prescribed by Armscor directives, and as stipulated in the order, shall be applicable.

**3.3.2** All invoices shall be subject to the approval of Armscor. Invoices must be submitted to Armscor, within 30 days after the completion of a task.

**3.3.3** Only invoices that have been accompanied by the documents prescribed in the order shall be considered for payment.

**3.4 CLASSIFICATION:**

All aspects of work associated with the requirements of this RFB shall be classified as RESTRICTED.

**3.5 BID EVALUATION CRITERIA**

**3.5.1** Mandatory Black Equity Ownership of at least **35%** is applicable in year 3 (April 2021 to 31 March 2022) of the Defence Sector Codes gazetting. Refer to paragraph 6.1.1 of the KD24 document.



## SUPPLY CHAIN MANAGEMENT

### 3.5.2 PRE-QUALIFICATION CRITERIA

- 3.5.2.1** The Bidder shall have a minimum B-BBEE status level 3 or better (Regulation 4).
- 3.5.2.2** The Bidder shall submit a valid proof of B-BBEE status (B-BBEE certificate issued by a SANAS accredited verification agency or CIPC B-BBEE certificate or B-BBEE affidavit duly sworn and commissioned). If the Bidder is a Joint Venture (JV) or Consortium, the Bidder shall submit with the Bid, a consolidated proof of B-BBEE status.
- 3.5.2.3** Bidders that do not meet the pre-qualification criteria will be disqualified from further evaluation of the critical criteria.

### 3.5.3 CRITICAL CRITERIA:

Only bids that meet the mandatory black ownership and pre-qualification criteria will be measured against the **Critical Criteria** requirements. Should the bid fail to comply with any one of the critical criteria the bid will be eliminated from further evaluation resulting in it not being eligible for award. The **Critical Criteria** requirements are:

CRITERIA NUMBER	CRITICAL CRITERIA REQUIREMENT	CRITICAL CRITERIA COMPLIANCE DOCUMENT TO BE SUBMITTED WITH THE BID
1.	The Bidder shall be certified/accredited as a minimum Silver Mellanox partner by the OEM (Original Equipment Manufacturer).	The Bidder shall submit with the Bid a minimum Silver partner certificate that is valid for 2022 calendar year. If a certificate cannot be provided, an official letter from Mellanox, confirming the certification/accreditation status, must be submitted. The letter must not be older than 12 months from the date of submitting the bid.
2.	The Bidder shall be certified/accredited to sell, install and support/maintain HPE Aruba products by the OEM (Original Equipment Manufacturer).	The Bidder shall submit with the Bid a certificate that states that the Bidder is accredited to sell, install and support/maintain the ARUBA products and qualified as a Silver, Gold or Platinum Partner in the Aruba Partner Ready for Networking Program for HPE Fiscal Year 2022. If a certificate cannot be provided, an official letter from HPE Aruba, confirming the certification/accreditation status, must be submitted. The letter must not be older than 12 months from the date of submitting the bid.



## SUPPLY CHAIN MANAGEMENT

3.	The products offered by the Bidder shall fully comply with the description as set out in the Work Breakdown Structure (WBS) Chapter 5 of the RFB.	<p>The bidder shall submit with the Bid, the completed and <b>signed</b> Bid Acceptance Conditions Form on page 7 of KD17 of the RFB document accepting that the products offered shall fully comply with the description set out in the RFB.</p> <p>An alternative proposal, that does not meet the minimum requirement as illustrated in Annexure A (Chapter 5 of Work Breakdown Structure) of the RFB, will be eliminated and the bid will be disqualified.</p>
4.	The Bidder shall provide a Network Operation Centre (NOC) during business hours that is designated to handle any incident and/or problem management issues that might arise during normal service operations.	The Bidder shall submit with the Bid, a completed Appendix B, confirming that he has access to a Network Operation Centre during business hours who will be able to render telephonic support. Appendix B to include address and telephone number/s of the NOC.
5	On-site next business day support and maintenance is required for a period of five (5) years after the installation at Armscor and remote sites in the event of a hardware failure.	The Bidder shall submit with the Bid, the completed and <b>signed</b> Bid Acceptance Conditions Form page 7 of KD17 of the RFB document confirming that he will render an on-site, next business day support service of the installed products for a period of five (5) years after installation in the event of a hardware/software failure.

### 3.6 AUTHENTICITY:

Armscor reserves the right to verify and confirm the authenticity of the certificates submitted by the Bidder in response to this bid.

### 3.7 RETRACTION OF WORK ELEMENTS:

Armscor reserves the right to retract any element, (or any part thereof), from any resulting order, as conditions develop or dictate, with reasonable warning, as agreed by all parties.

### 3.8 TECHNICAL ACCEPTANCE CONDITIONS:

**3.8.1** The proposed contractor shall be responsible for effective Quality Assurance (QA) measures to ensure the quality of the deliverables.



## SUPPLY CHAIN MANAGEMENT

- 3.8.2** The acceptance conditions will be in accordance with Armcor's Contract Conditions, Technical Standards, A-STD-61.
- 3.8.3** Acceptance shall be done by means of an Inspection/Release/Acceptance Certificate (Form K225) issued, signed and stamped by a representative of Armcor's Quality Department after delivery.



## SUPPLY CHAIN MANAGEMENT

### 3.9 ANNUAL ESCALATION:

Armcor reserves the right to re-negotiate the pricing for maintenance and support for the subsequent years (i.e. years 2 to 5 of the proposed order) to be in line with local market trends.

### 3.10 MAINTENANCE STANDARDS:

All maintenance activities shall be accomplished in accordance with the OEM's directives and data.

### 3.11 WARRANTY:

**3.11.1** The products shall be delivered with the standard OEM's warranty.

**3.11.2** All standard hardware and software warranties must be supplied for a period of 5 years. The warranty needs to include access to all required software, and the Return Merchandise Authorization (RMA) for any faulty hardware.

### 3.12 SUPPORT HOURS

Standard working hours are Mon to Fri 8am to 5pm. After hours includes weekends and any public holiday.

## SUPPLY CHAIN MANAGEMENT

### CHAPTER 4

#### 4. COSTING

##### 4.1 MARK-UP:

4.1.1 In the case of maintenance and support tasks, the Bidder shall indicate the mark-up percentage in the bid for procurement of spares/components. This percentage will be fixed for the duration of the order.

4.1.2 No mark-up will be paid on freight, statutory, S & T, or any other incidental costs.

##### 4.2 LABOUR RATES:

4.2.1 The different **skills levels** utilized for maintenance and support tasks shall be clearly defined in the bid.

4.2.2 Furthermore, the hourly labour rate **per skill level** shall also be clearly defined in the bid.

4.2.3 The hourly labour rate for each contracting year will be fixed for the duration of that specific year. Escalation in the labour rate for the subsequent years will be subject to negotiation between Armscor and the contractor prior to the activation of the order for the subsequent year.

4.2.4 All labour rates shall be substantiated to the satisfaction of Armscor to be market-related and reasonable.

4.2.5 The following template is an **example** of how the Bidder can demonstrate the hourly labour rates for the different skill levels:

WBS	DISCIPLINE	LABOUR RATE IN ZAR
Maintenance	Engineer	R
Maintenance	Maintenance technicians	R



## SUPPLY CHAIN MANAGEMENT

### CHAPTER 5

#### 5. WORK BREAKDOWN STRUCTURE

##### WBS 001: TECHNICAL REQUIREMENTS

**5.1 SCOPE:** The Work Breakdown Structure (WBS) includes the technical requirements required to ensure the cost effective attainment of goals to ensure the operational availability of the Armscor LAN Access Switches.

#### 5.2 COSTING:

5.2.1 The Bidder shall provide a fixed cost for each of the products indicated in the RFB document in Section 12 – Summary of Requirement (Price Schedule).

5.2.2 The Bidder shall provide a hourly rate for all labour and training related items indicated in the RFB document in Section 12 – Summary of Requirement (Price Schedule).

#### 5.3 FIBER LINKS CAPABILITY REQUIREMENTS

All fiber installed must have the capability of running at 10 GB in Single Mode.

#### 5.4 ACCESS LAYER SWITCH CAPABILITY REQUIREMENTS

The access layer switch requirement is limited to the following two HPE Aruba switch models, depending on the port count requirements.

Part #	Description
JL256A	Aruba 2930F 48G PoE+ 4SFP+ Switch
JL261A	Aruba 2930F 24G PoE+ 4SFP Switch
JW546AAE	Aruba LIC-AW Aruba Airwave with RAPIDS and VisualRF License E-LTU
H7J32A5#ZXZ	HPE 5Y Foundation Care NBD Service - HPE Aruba AirWave
JZ399AAE	Aruba ClearPass Cx000V VM Appl E-LTU
H9WX9E	Aruba 5Y FC 24x7 ClearPass Cx000V VM SVC
JZ430AAE	Aruba ClearPass NL AC 2500 CE 5yr

Transceivers supplied can be either HPE Aruba or ProLabs, a certified compatible version for HPE Aruba.

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## SUPPLY CHAIN MANAGEMENT

HPE Aruba Airwave and ClearPass must also be included in the price and clearly stipulated for each HPE Aruba switch supplied and for a maximum of 2 500 concurrent connections.

### 5.5 DISTRIBUTION LAYER SWITCH CAPABILITY REQUIREMENTS

The distribution layer switch requirement is limited to the following Mellanox switch model.

Part #	Description
MSN2010-CB2R	Spectrum(R) based 25GbE/100GbE 1U Open Ethernet switch with Onyx, 18 SFP28 ports and 4 QSFP28 ports
MTEF-KIT-D	Rack installation kit for SN2100/SN2010 series 1U half-width switches allows the installation of One or Two switches side-by-side into standard depth racks
SUP-SN2010-5S	Mellanox Technical Support and Warranty - Silver, 5 Year, for SN2010 Series Switch

Transceivers supplied can be either Mellanox or ProLabs, a certified compatible version for Mellanox.

### 5.6 CABINETS

All wall mounted cabinets shall be 800 cm deep. All other cabinets shall be 1 meter deep.

The cabinets shall come standard with cable management.

The electrical power supply unit in the cabinet must include surge protection



**5.7 CONSUMABLES****5.7.1 IDENTITY LABELS**

Identity label is the label that will bind around the UTP cable with a label depicting the port number floor number and switch number per area. The label will be on both ends of each CAT 6 patch lead. Please see figure 1 below:

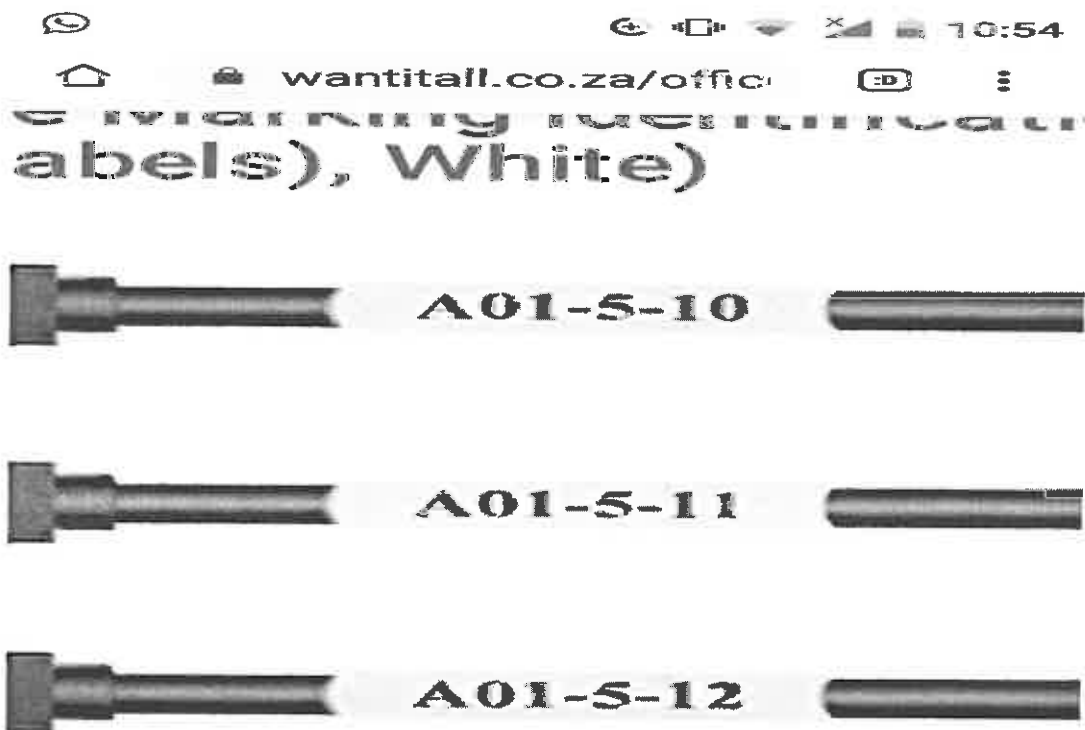


Figure 1 - Identity label

**5.7.2 FIBRE PATCH LEADS**

Fibre patch leads LC-LC single-mode must be 3m in length.

**5.7.3 CABINET PATCH LEADS**

Patch leads in the cabinets must be CAT 6, 2m Grey.

**5.7.4 BRUSH PANELS**

Brush panel must include cable management as depicted in figure 2 below:



Figure 2 – Brush Panel

**5.8 INSTALLATION SCOPE OF WORK**

Installation cost must be detailed per site with the type of resource used, the hourly rate of the resource and the number of resources for each type of resource.

Installation cost must be separated as cabinet installation, fibre installation, copper cable installation (only for Protechnik), access switch installation and distribution switch installation. Below is a high level of activities for each installation.

**5.9 CABINET INSTALLATION**

- Remove existing cabinet equipment;
- Clean cabinet prior to installation;
- Install new cabinet;
- Re-route existing cables into the new cabinet;
- Re-route cabling for cameras into the new cabinet;
- Terminate existing cables onto the new patch panels;
- Label all cables;
- Label all patch panels;
- Label all cabinets;
- Re-rack existing equipment into the cabinets;
- Install power protection units into all cabinets;
- Patch all cables with new patch leads into equipment.



## SUPPLY CHAIN MANAGEMENT

### 5.10 FIBRE INSTALLATION

- Trace the routes of the existing fibre optic cables back to the server/distribution rooms;
- Establish which existing fibre routes and piping into the main server/distribution rooms can be used to install new cables;
- Establish all new piping routes that need to be built;
- Establish which existing poles can be used to accommodate overhead fibre optic cable to distribution points;
- Plant new poles to new distribution points to accommodate overhead fibre optic cables where none exist or cannot be utilised;
- Build new underground infrastructure needed to accommodate new and existing fibre optic infrastructure;
- Install fibre to the new and existing distribution locations;
- Install tangent supports and dead ends for overhead optic fibre installations;
- Install 50mm bosal pipe for installation of underground fibre optic and entering into the buildings;
- Install new fibre trays into all distribution cabinets;
- Prepare fibre trays with splice cassettes, pigtails and midcouplers;
- Splice fibres onto the new splice trays;
- Switch over existing fibre optic cables onto the new fibre optic trays by installing LC - LC fibre optic leads;
- Test fibre optic cables;
- Label fibre optic cables

### 5.11 LAN EXPANSION COPPER CABLE INSTALLATION (PROTECHNIK)

Installation of additional end-user points at Protechnik:

- Plan and document route diagram from the end-user points to the connecting data racks;
- Determine cable routing trays required to accommodate the cables. Use cable hooks otherwise;
- Install cables to the user endpoints;
- Install the new patch panels in the distribution racks;
- Terminate all cables onto the new patch panels;
- Terminate all cables onto the data jacks at the user end;
- Label all network points on the user end and onto the patch panel;
- Label all patch panels;
- Test all network points;
- Fix all faulty network points;
- Patch all end-user points onto the switches.



## SUPPLY CHAIN MANAGEMENT

### 5.12 ACCESS/DISTRIBUTION SWITCH INSTALLATION

- Install transceivers and pre-configure all switches;
- Decommission old switches and remove from cabinet;
- Install new configured switches;
- Install new patch leads and re-label;
- Test all ports;
- Sign off per site

### 5.13 CABINET CLEAN-UP

Below is the high-level scope of work for cabinet clean up. The clean-up are for the cabinets in the Dockyard (31 cabinets) and IMT (3 cabinets) only as these are existing cabinets.

**The work will be repeated per cabinet:**

- Removal of all hardware;
- Physical clean-up of cabinets;
- Clean physical cabinet components viz. switches, patch panels etc. For the cleaning, alcohol-based cleaner should be used;
- Installation of new patch panels;
- Patching of the new cables with the existing devices or new devices;
- Re-labelling of patch points and devices according to Armscor Standards;
- Installation of the cable management system;
- Label all patch panels;
- All patch points to be labelled.

Regression testing to be done with Armscor onsite engineers.

### 5.14 NETWORK SCHEMA

Network diagrams are required after each installed site as part of site-sign off.



## SUPPLY CHAIN MANAGEMENT

## 6 PROTECHNIK REQUIREMENTS

There is existing 10 GB, Single Mode fiber installed that can be used. An additional amount of fiber, cabinets and consumables need to be installed for redundancy. Two 42U cabinets also need to be replaced and moved to a new location. Below is the bill of material and quantities that are required.

## 6.1 CABINET, FIBER AND CONSUMABLES

AREA	CABINET 47U	MOUNT TRAYS	FIBRE 12 CORESM	FIBRE 24CORE SM	FIBRE 48CORE SM
Boardroom - Main Computer Room	1	2	-	-	-
Block B	1	2	-	260	260
Block F	1	1	340	-	-
<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>340</b>	<b>260</b>	<b>260</b>

AREA	SPLICE TRAY - 24 PORT	FIBRE LEADS LC-LC SM 3M	MID COUPLER SM	FIBRE PIG TAIL SM 2M
Boardroom - Main Computer Room	3	12	24	48
Block B	3	12	24	48
Block F	1	12	12	24
<b>TOTAL</b>	<b>7</b>	<b>36</b>	<b>60</b>	<b>120</b>

AREA	UTP PATCH LEAD - 2M	BLANK PLATES	PATCH PANEL - 48 PORT	BRUSH PANEL	IDENTITY LABEL
Boardroom - Main Computer Room	140	3	3	5	280
Block B	110	3	2	5	220
Block F	20	3	1	1	40
<b>TOTAL</b>	<b>270</b>	<b>9</b>	<b>6</b>	<b>11</b>	<b>540</b>



## SUPPLY CHAIN MANAGEMENT

## 6.2 LAN EXPANSION REQUIREMENTS FOR NEW INFRASTRUCTURE

AREA	DATA POINT	UTP PATCH LEAD - 2M	PATCH PANEL - 48 PORT	BRUSH PANEL	IDENTITY LABEL
Boardroom - Main Computer Room	50	354	5	9	708
Block B	35	70	1	2	70
Block C (additional requirements)	54	-	-	-	-
Block D	34	-	-	-	-
Block E (additional requirements)	39	-	-	-	-
Block F	49	543	4	6	1086
Block F (additional requirements)	112	-	-	-	-
Pp1 building (additional requirements)	110	-	-	-	-
<b>TOTAL</b>	<b>483</b>	<b>967</b>	<b>10</b>	<b>17</b>	<b>1864</b>

All CAT 6 network points to be installed must be priced at 90 meters and must include wall boxes and labelling

## 6.3 SWITCHING REQUIREMENTS

Location	HPE Aruba Switches			
	24 ports (JL255A)	48 ports (JL256A)	10G DAC (Stacking)	10Gb SFP Single Mode
Boardroom - Main Computer Room	1	2	2	4
Block B	1	2	2	4
Block C (additional requirements)	1	1	-	-
Block D	1	1	-	-
Block E (additional requirements)	1	1	-	-
Block F	1	1	2	4
Block F (additional requirements)	-	2	-	-
Pp1 building (additional requirements)	1	2	-	-
Block L	1	1	-	-
<b>TOTAL</b>	<b>8</b>	<b>13</b>	<b>4</b>	<b>12</b>

Location	Mellanox Switches			
	SN2010	100G DAC (m1ag)	10Gb SFP MM	10Gb SFP SM
Boardroom - Main Computer Room	4	4	4	12
<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>12</b>



## SUPPLY CHAIN MANAGEMENT

## 7 GEROTEK REQUIREMENTS

There is existing 10 GB, Single-Mode fibre installed that can be re-used. An additional amount of fibre, cabinets and consumables need to be installed for redundancy. Fibre poles to be replaced. Below is the bill of materials and quantities that are required.

## 7.1 CABINET, FIBER AND CONSUMABLES

AREA	CABINET 47U	CABINET 12U	MOUNT TRAYS	FIBRE 12 CORESM	FIBRE 48CORE SM
Gerotek - Main computer room	1	-	1	80	-
Indlovu Office	-	1	1	80	-
Technical Building	-	1	1	80	-
Technical Workshop	-	1	1	80	-
Sidibane	-	1	1	-	3522
Armor Development	-	1	1	80	-
Bateleur	-	1	1	80	-
Crockery Store	-	1	1	80	-
Dynamic Handling Track	-	1	1	1869	-
Leopard Boardroom	-	1	1	80	-
Main Gate	-	1	1	-	438
Land Rover – new	-	1	1	500	-
Ergotech – new	-	1	1	270	-
African Warrior - new	-	1	1	617	-
Dynamic Handling	-	1	1	619	-
<b>TOTAL</b>	<b>1</b>	<b>14</b>	<b>15</b>	<b>4515</b>	<b>3960</b>



## SUPPLY CHAIN MANAGEMENT

AREA	SPLICE TRAY - 24 PORT	FIBRE LEADS LC-LC SM 3M	MID COUPLER SM	FIBRE PIG TAIL SM 2M
Gerotek - Main computer room	1	1	12	24
Indlovu Office	1	1	12	24
Technical Building	1	2	12	24
Technical Workshop	1	24	12	24
Sidibane	2	24	104	208
Armor Development	1	24	12	24
Bateleur	1	12	12	24
Crockery Store	1	12	12	24
Dynamic Handling Track	1	24	12	24
Leopard Boardroom	1	12	12	24
Main Gate	2	12	36	72
Land Rover – new	2	12	30	60
Ergotech – new	1	24	12	24
African Warrior - new	1	24	12	24
Dynamic Handling	1	24	12	24
<b>TOTAL</b>	<b>18</b>	<b>232</b>	<b>314</b>	<b>628</b>

AREA	UTP PATCH LEAD - 2M	BLANK PLATES	PATCH PANEL – 24 PORT	PATCH PANEL – 48 PORT	BRUSH PANEL	IDENTITY LABEL
Gerotek - Main computer room	144	6	-	3	2	288
Indlovu Office	48	6	1	1	2	96
Technical Building	48	6	1	1	2	96
Technical Workshop	48	6	1	1	2	96
Sidibane	10	6	2	-	-	20
Armor Development	12	6	1	-	-	24
Bateleur	12	6	1	-	-	24
Crockery Store	12	6	1	-	-	24
Dynamic Handling Track	12	6	1	-	-	24
Leopard Boardroom	12	6	1	-	1	24
Main Gate	12	6	1	-	1	24
Land Rover – new	12	6	1	-	1	24
Ergotech – new	12	6	1	-	1	24
African Warrior - new	12	6	1	-	1	24
Dynamic Handling	12	6	1	-	1	24
<b>TOTAL</b>	<b>418</b>	<b>90</b>	<b>15</b>	<b>6</b>	<b>14</b>	<b>836</b>





## SUPPLY CHAIN MANAGEMENT

### 7.2 ADDITIONAL FIBRE INSTALLATION REQUIREMENTS

- Install single Mode fibre HDD at Sidibane from Main building - 325m - aerial - (16 poles);
- Install single mode fibre HDD from Main Gate to Gradient Gate - 120m - aerial (6 poles);
- Install single mode fibre HDD from Land Rover to Skid Pad - 460m aerial - (23 poles);
- Install single mode fibre HDD from Skid Pad to Long Straight - 85m aerial - (4 poles);
- Install single mode fibre HDD from Suspension Track to Sidibane - 500m - aerial (25 poles);
- Install single mode fibre HDD from African Warrior to Shooting Range - 260m aerial - (7 poles);
- Install single mode fibre HDD from Suspension Track to Dynamic handling - 220m aerial (11 poles);
- Install single mode fibre HDD from Boom Gate to Main building – 110m - aerial (6 poles);
- Install single mode fibre HDD from Technical Building to Admin Building - 355mm - aerial (18 poles)

### 7.3 SWITCHING REQUIREMENTS

Location	HPE Aruba Switches			
	24 ports (JL255A)	48 ports (JL256A)	10G DAC (Stacking)	10Gb SFP Single Mode
Gerotek - Main computer room	1	2	2	4
Indlovu Office	1	1	-	4
Technical Building	1	1	-	4
Technical Workshop	1	1	-	4
Sidibane	2	-	-	4
Armor Development	1	-	-	2
Bateleur	1	-	-	2
Crockery Store	1	-	-	2
Dynamic Handling Track	1	-	-	2
Leopard Boardroom	1	-	-	2
Main Gate	1	-	-	2
Land Rover – new	1	-	-	2
Ergotech – new	1	-	-	2
African Warrior - new	1	-	-	2
Dynamic Handling	1	-	-	2
TOTAL	16	5	2	40



## SUPPLY CHAIN MANAGEMENT

Location	Mellanox Switches			
	SN2010	100G DAC (mlag)	10Gb SFP MM	10Gb SFP SM
Gerotek - Main computer room	4	4	4	40
<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>40</b>

## 8 ALKANTPAN REQUIREMENTS

There is an existing 10 GB, Single-Mode fibre installed that can be used. An additional amount of fibre, cabinets and consumables need to be installed for additional redundancy. Fibre poles to be replaced. Below is the bill of material and quantities that are required.

### 8.1 CABINET, FIBER AND CONSUMABLES

AREA	CABINET 47U	CABINET 12U	CABINET 25U	MOUNT TRAYS	FIBRE 12 CORESM	FIBRE 48CORE SM
Drie Doring Range	-	1	-	1	2282	-
Candy Range	-	1	-	1	2415	-
Range Control	-	1	-	1	-	510
Rocket Rail Range	-	1	-	1	550	-
Security Station	-	-	1	1	80	-
Shooting Point North	-	1	-	1	-	2520
Shooting Point South	-	1	-	1	-	2520
Stores	-	1	-	1	-	620
Weapons Bld A	-	1	-	1	210	-
Weapons Bld B	-	1	-	1	210	-
Weather Station	-	1	-	1	-	-
Admin Building	1	-	-	1	-	-
<b>TOTAL</b>	<b>1</b>	<b>10</b>	<b>1</b>	<b>12</b>	<b>5747</b>	<b>6170</b>



## SUPPLY CHAIN MANAGEMENT

AREA	SPLICE TRAY - 24 PORT	FIBRE LEADS LC-LC SM 3M	MID COUPLER SM	FIBRE PIG TAIL SM 2M
Drie Doring Range	1	2	12	24
Candy Range	1	2	12	24
Range Control	2	20	30	60
Rocket Rail Range	1	1	12	24
Security Station	1	1	12	24
Shooting Point North	2	20	30	60
Shooting Point South	2	20	30	60
Stores	2	20	30	60
Weapons Bld A	1	2	12	24
Weapons Bld B	1	2	12	24
Weather Station	1	2	12	24
Admin Building	5	48	48	92
<b>TOTAL</b>	<b>20</b>	<b>140</b>	<b>252</b>	<b>500</b>

AREA	UTP PATCH LEAD - 2M	BLANK PLATES	PATCH PANEL - 24 PORT	PATCH PANEL - 48 PORT	BRUSH PANEL	IDENTITY LABEL
Drie Doring Range	43	6	1	1	2	86
Candy Range	46	6	1	1	2	92
Range Control	72	6	1	1	2	144
Rocket Rail Range	32	6	1	1	2	64
Security Station	35	6	1	-	2	70
Shooting Point North	51	6	1	1	2	102
Shooting Point South	57	6	1	1	3	114
Stores	35	6	1	1	2	70
Weapons Bld A	30	6	1	-	2	60
Weapons Bld B	31	6	1	-	2	62
Weather Station	36	6	1	1	2	72
Admin Building	134	6	-	4	6	268
<b>TOTAL</b>	<b>602</b>	<b>72</b>	<b>11</b>	<b>12</b>	<b>29</b>	<b>1204</b>

## 8.2 ADDITIONAL FIBRE INSTALLATION REQUIREMENTS

**ADMIN (Termination Point)**

- Replace Range Control 4 core fibre with 500m SM HDD 12 core fibre - aerial;
- Replace Shooting Point North 4 core fibre with 2520m SM HDD 12 core fibre - aerial;
- Replace Shooting Point South 4 core fibre with 2479m SM HDD 12 core fibre - aerial;
- Replace Stores 4 core fibre with 600m HDD SM 12 core fibre – aerial.



## SUPPLY CHAIN MANAGEMENT

**RANGE CONTROL (Termination Point)**

- Replace Shooting Point North 4 core fibre with 440m SM HDD 12 core fibre - aerial;
- Replace Security Station 4 core fibre with 80m SM/MM HDD 12 core fibre aerial.

**SHOOTING POINT NORTH (Termination Point)**

- Replace Candy Range 4 core fibre with 2415m SM HDD 12 core fibre - aerial;
- Replace Drie Doring 4 core fibre with 2282m SM HDD 12 core fibre – aerial.

**SHOOTING POINT SOUTH (Termination Point)**

- Replace Rocket Rail 4 core fibre with 550m SM HDD 12 core fibre - aerial;
- Replace Rocket Range 4 core fibre with 560m SM HDD 12 core fibre - aerial.

**STORES**

- Replace Weapons Stores 4 core fibre with 200m SM HDD 12 core fibre - aerial;
- Replace Weapons Building B 4 core fibre with 209m SM HDD 12 core fibre – aerial.

**8.3 SWITCHING REQUIREMENTS**

Location	HPE Aruba Switches			
	24 ports (JL255A)	48 ports (JL256A)	10G DAC (Stacking)	10Gb SFP Single Mode
Drie Doring Range	1	1	-	4
Candy Range	1	1	-	4
Range Control	1	1	-	4
Rocket Rail Range	1	1	-	4
Security Station	1	-	-	2
Shooting Point North	1	1	-	4
Shooting Point South	1	1	-	4
Stores	1	1	-	4
Weapons Bld A	1	-	-	2
Weapons Bld B	1	-	-	2
Weather Station	1	1	-	4
Admin Building - Main Server Room	1	2	2	4
<b>TOTAL</b>	<b>12</b>	<b>10</b>	<b>2</b>	<b>42</b>

Location	Mellanox Switches			
	SN2010	100G DAC (mIag)	10Gb SFP MM	10Gb SFP SM
Admin Building - Main Server Room	4	4	4	36
<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>36</b>



## SUPPLY CHAIN MANAGEMENT

## 9 DOCKYARD REQUIREMENTS

All HPE Aruba access layer switches need to connect via 1 GB fibre to the four Mellanox distribution switches. The distribution switches will connect to the core Mellanox switches located at IMT. New single-mode 10G fibre will be installed for the connections between distribution and core. The current Multi-Mode fibre will also be used between distribution and core and will act as an active redundant link.

## 9.1 FIBER AND CONSUMABLES

AREA	FIBRE 24 CORE SM	SPLICE TRAY - 24 PORT	MID COUPLER SM	FIBRE PIG TAIL SM 2M	PATCH PANEL - 24 PORT	BRUSH PANEL
B1013-TRANSPORT	550	2	8	8	-	-
B143	-	-	-	-	2	2
B621	500	1	8	8	-	-
B684 2nd floor	375	1	8	8	2	2
B684 3rd floor	-	-	-	-	2	2
B684 5th floor	-	-	-	-	1	1
<b>TOTAL</b>	<b>1425</b>	<b>4</b>	<b>24</b>	<b>24</b>	<b>7</b>	<b>7</b>

AREA	FIBRE LEADS ST-LC SM 3M	UTP PATCH LEAD - 2M	IDENTITY LABEL
B1013-TRANSPORT	4	46	92
B1037	1	24	48
B143	2	48	96
B560	1	24	48
B560	1	24	48
B616	1	24	48
B617	1	24	48
B618	1	24	48
B619	1	24	48
B620	1	24	48
B621	4	24	48
B645 L1	1	24	48
B649	1	24	48
B655	1	24	48
B656 A	1	24	48
B656 B	1	24	48
B664	1	24	48
B674	1	24	48
B675	1	24	48

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## SUPPLY CHAIN MANAGEMENT

AREA	FIBRE LEADS ST-LC SM 3M	UTP PATCH LEAD - 2M	IDENTITY LABEL
B676	1	24	48
B684 2nd floor	4	120	240
B684 3rd floor	2	168	336
B684 4nd floor	2	72	144
B684 5th floor	2	72	144
B729	1	24	48
B820	1	24	48
B914	1	24	48
B916	1	24	48
B920 S1	1	24	48
B920 S3	1	24	48
B993	1	24	48
<b>TOTAL</b>	<b>44</b>	<b>1126</b>	<b>2252</b>

## 9.2 SWITCHING REQUIREMENTS

Location	HPE Aruba Switches				
	Access Layer 24 ports (JL261A)	48 ports (JL256A)	10G DAC (Stacking)	1Gb SFP SM	10Gb SFP SM
B1013-TRANSPORT	1	-	-	1	-
B1037	1	-	-	1	-
B143	2	-	-	2	-
B560	1	-	-	1	-
B560	1	-	-	1	-
B616	1	-	-	1	-
B617	1	-	-	1	-
B618	1	-	-	1	-
B619	1	-	-	1	-
B620	1	-	-	1	-
B621	1	-	-	1	-
B645 L1	1	-	-	1	-
B649	1	-	-	1	-
B655	1	-	-	1	-
B656 A	1	-	-	1	-
B656 B	1	-	-	1	-
B664	1	-	-	1	-
B674	1	-	-	1	-
B675	1	-	-	1	-
B676	1	-	-	1	-



## SUPPLY CHAIN MANAGEMENT

Location	HPE Aruba Switches				
	Access Layer 24 ports (JL261A)	48 ports (JL256A)	10G DAC (Stacking)	1Gb SFP SM	10Gb SFP SM
B684 2nd floor	1	2	2	3	2
B684 3rd floor	1	3	4	2	-
B684 4nd floor	1	1	0	2	-
B684 5 <sup>th</sup> floor	1	1	0	2	-
B729	1	-	-	1	-
B820	1	-	-	1	-
B914	1	-	-	1	-
B916	1	-	-	1	-
B920 S1	1	-	-	1	-
B920 S3	1	-	-	1	-
B993	1	-	-	1	-
<b>TOTAL</b>	<b>32</b>	<b>7</b>	<b>6</b>	<b>37</b>	<b>2</b>

Location	Mellanox Switches			
	SN2010	100G DAC (mlag)	1Gb SFP SM	10Gb SFP SM
B1013-TRANSPORT	-	-	1	
B1037	-	-	1	
B143	-	-	1	
B560	-	-	1	-
B560	-	-	1	-
B616	-	-	1	-
B617	-	-	1	-
B618	-	-	1	-
B619	-	-	1	-
B620	-	-	1	-
B621	2	2	1	4
B645 L1	-	-	1	-
B649	-	-	1	-
B655	-	-	1	-
B656 A	-	-	1	-
B656 B	-	-	1	-
B664	-	-	1	-
B674	-	-	1	-
B675	-	-	1	-
B676	-	-	1	-
B684 2nd floor	2	2	1	4

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## SUPPLY CHAIN MANAGEMENT

Location	Mellanox Switches			
	SN2010	100G DAC (mlag)	1Gb SFP SM	10Gb SFP SM
B684 3rd floor	-	-	1	-
B684 4nd floor	-	-	1	-
B684 5th floor	-	-	1	-
B729	-	-	1	-
B820	-	-	1	-
B914	-	-	1	-
B916	-	-	1	-
B920 S1	-	-	1	-
B920 S3	-	-	1	-
B993	-	-	1	-
<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>31</b>	<b>8</b>

## 10 INSTITUTE FOR MARITIME TECHNOLOGY (IMT)

## 10.1 FIBRE AND CONSUMABLES

AREA	FIBRE 12 CORESM	SPLICE TRAY - 24 PORT	FIBRE LEADS ST-LC SM 3M	MID COUPLER SM	FIBRE PIG TAIL SM 2M
Ground	550	1	8	8	4
1st floor	-	1	8	8	4
2nd floor	-	1	8	-	-
<b>TOTAL</b>	<b>550</b>	<b>3</b>	<b>24</b>	<b>16</b>	<b>8</b>

AREA	UTP PATCH LEAD - 2M	BLANK PLATES	PATCH PANEL- 24 PORT	BRUSH PANEL	IDENTITY LABEL
Ground	72	2	1	3	144
1st floor	120	2	1	1	240
2nd floor	96	2	1	3	192
<b>TOTAL</b>	<b>288</b>	<b>6</b>	<b>3</b>	<b>7</b>	<b>576</b>

## 10.2 SWITCHING REQUIREMENTS

Location	HPE Aruba Switches				
	Access Layer 24 ports (JL261A)	48 ports (JL256A)	10G DAC (Stacking)	1Gb SFP SM	10Gb SFP SM
Ground	1	1	-	1	2
1st floor	1	2	2	4	4
2nd floor	2	1	2	1	2
<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>8</b>

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## SUPPLY CHAIN MANAGEMENT

Location	Mellanox Switches			
	SN2010	100G DAC (mlag)	10Gb SFP MM	10Gb SFP SM
Ground	-	-	-	2
1st floor	2	2	2	4
2nd floor	-	-	-	2
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>8</b>

## 11 ARMSCOR HEAD OFFICE

## 11.1 FIBRE AND CONSUMABLES

AREA	FIBRE LEADS LC-LC SM 3M	FIBRE PIG TAIL SM 2M	UTP PATCH LEAD - 2M	PATCH PANEL- 24 PORT	BRUSH PANEL	IDENTITY LABEL
Block 3 Level -2	2	2	24	1	1	48
Block 3 Level -1	2	2	24	1	1	48
Block3 Level0	2	2	24	1	1	48
Block3 Level1	2	2	24	1	1	48
Block4 Level-1	2	2	24	1	1	48
Block4 Level0	2	2	24	1	1	48
Block4 Level1	2	2	24	1	1	48
Block4 Level2	2	2	24	1	1	48
Block4 Level3	2	2	24	1	1	48
Block4 Level4	2	2	24	1	1	48
Block4 Level5	2	2	24	1	1	48
Block4 Level6	2	2	24	1	1	48
Block4 Level7	2	2	24	1	1	48
Block5 Level2	2	2	24	1	1	48
Block5 Level5	2	2	24	1	1	48
Block5 Level6	2	2	24	1	1	48
Block5 Level7	2	2	24	1	1	48
Block6 Level-1	2	2	24	1	1	48
Data Center - Block 3 Level -2	2	2	96	2	2	192
<b>TOTAL</b>	<b>38</b>	<b>38</b>	<b>528</b>	<b>20</b>	<b>20</b>	<b>1056</b>



## SUPPLY CHAIN MANAGEMENT

## 11.2 SWITCHING REQUIREMENTS

Location	HPE Aruba Switches	
	Access Layer 24 ports (JL261A)	10Gb SFP SM
Block 3 Level -2	1	2
Block 3 Level -1	1	2
Block3 Level0	1	2
Block3 Level1	1	2
Block4 Level-1	1	2
Block4 Level0	1	2
Block4 Level1	1	2
Block4 Level2	1	2
Block4 Level3	1	2
Block4 Level4	1	2
Block4 Level5	1	2
Block4 Level6	1	2
Block4 Level7	1	2
Block5 Level2	1	2
Block5 Level5	1	2
Block5 Level6	1	2
Block5 Level7	1	2
Block6 Level-1	1	2
Data Center		
<b>TOTAL</b>	<b>18</b>	<b>36</b>



## SUPPLY CHAIN MANAGEMENT

Location	Mellanox Switches			
	SN2010	100G DAC (mlag)	10Gb SFP MM	10Gb SFP SM
Block 3 Level -2	-	-	-	2
Block 3 Level -1	-	-	-	2
Block3 Level0	-	-	-	2
Block3 Level1	-	-	-	2
Block4 Level-1	-	-	-	2
Block4 Level0	-	-	-	2
Block4 Level1	-	-	-	2
Block4 Level2	-	-	-	2
Block4 Level3	-	-	-	2
Block4 Level4	-	-	-	2
Block4 Level5	-	-	-	2
Block4 Level6	-	-	-	2
Block4 Level7	-	-	-	2
Block5 Level2	-	-	-	2
Block5 Level5	-	-	-	2
Block5 Level6	-	-	-	2
Block5 Level7	-	-	-	2
Block6 Level-1	-	-	-	2
Data Center	2	2	2	-
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>36</b>



## SUPPLY CHAIN MANAGEMENT

## 12 SUMMARY OF REQUIREMENTS (PRICE SCHEDULE)

## 12.1 INFRASTRUCTURE

Description	QTY	Unit Price	Total Price
CABINET 47U	5		
CABINET 12U	24		
CABINET 25U FLOOR STANDING	1		
MOUNT TRAYS	35		
FIBRE 12 CORESM - METERS	11 502		
FIBRE 24CORE SM - METERS	1 685		
FIBRE 48CORE SM - METERS	10 390		
FIBRE POLES	760		
SPLICE TRAY - 24 PORT	55		
FIBRE LEADS LC-LC SM 3M	450		
FIBRE LEADS ST-LC SM 3M	70		
MID COUPLER SM	680		
FIBRE PIG TAIL SM 2M	1 330		
DATA POINTS WITH SURFACE MOUNT JACKS	483		
UTP PATCH LEADS - 2M	4 210		
BLANK PLATES	180		
PATCH PANEL – 48 PORT	36		
PATCH PANEL – 24 PORT	58		
BRUSH PANEL	107		
IDENTITY LABEL	8330		

## 12.2 SWITCHING

Description	Part #	QTY	Unit Price	Total Price
<b>HPE ARUBA SWITCHING</b>				
Aruba 2930F 48G PoE+ 4SFP+ Switch	JL256A	47		
Aruba 2930F 24G PoE+ 4SFP Switch	JL261A	96		
Aruba LIC-AW Aruba Airwave with RAPIDS and VisualRF License E-LTU	JW546AAE	143		
HPE 5Y Foundation Care NBD Service - HPE Aruba AirWave	H7J32A5#ZXZ	143		



## SUPPLY CHAIN MANAGEMENT

Aruba ClearPass Cx000V VM Appl E-LTU	JZ399AAE	1		
Aruba 5Y FC 24x7 ClearPass Cx000V VM SVC	H9WX9E	1		
Aruba ClearPass NL AC 2500 CE 5yr	JZ430AAE	1		
1Gb SFP SM Transceiver		49		
10G DAC (Stacking)		23		
10Gb SFP SM Transceiver		148		
<b>Support (Aruba Switches)</b>				
Support (hours) – over 5 year period		500		
<b>Maintenance (5 years)</b>				
Annual Maintenance (years)		5		
<b>Training and Documentation</b>				
Training and documentation (days)		4		

<b>MELLANOX SWITCHES</b>				
Spectrum(R) based 25GbE/100GbE 1U Open Ethernet switch with Onyx, 18 SFP28 ports and 4 QSFP28 ports	MSN2010-CB2R	21		
Rack installation kit for SN2100/SN2010 series 1U half-width switches allows the installation of One or Two switches side-by-side into standard depth racks	MTEF-KIT-D	10		
Mellanox Technical Support and Warranty - Silver, 5 Year, for SN2010 Series Switch Payable annually	SUP-SN2010-5S	21		
100G DAC (mlag)		23		
1Gb SFP SM Transceiver		34		
10Gb SFP MM Transceiver		18		
10Gb SFP SM Transceiver		150		
<b>Support</b>				
Support (hours) – over 5 year period based on time and material		900		
<b>SLA</b>				
SLA cost				



## SUPPLY CHAIN MANAGEMENT

<b>Maintenance (5 years)</b>				
Annual Maintenance (years) – paid annually		5		
<b>Training and Documentation</b>				
Training and documentation (days)		4		
<b>Total</b>				

**Bidders are requested to complete Annexure A – Minimum Product Specification in order to show Compliance with the requirement.**



## SUPPLY CHAIN MANAGEMENT

## 12.3 COST OF INSTALLATION

Installation shall be costed as per the high level scope of work detailed in section 3.6 above. Please list all resource types, the number of resources, the hourly rate and the total number of hours as per models below:

## 12.4 CABINET INSTALLATION

Description	No. of Resources	Hourly Rate of Resource	Hours	Total Price
<b>Protechnik</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Gerotek</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Alkantpan</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Total</b>				

## 12.5 FIBRE INSTALLATION

Description	No. of Resources	Hourly Rate of Resource	Hours	Total Price
<b>Protechnik</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Civil Technician (etc.)				
<b>Gerotek</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Civil Technician (etc.)				
<b>Alkantpan</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				



## SUPPLY CHAIN MANAGEMENT

Type of resource 2, e.g. Civil Technician (etc.)				
<b>Dockyard</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Civil Technician (etc.)				
<b>IMT</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Civil Technician (etc.)				
<b>Total</b>				

**12.6 LAN EXPANSION/COPPER CABLE INSTALLATION (PROTECHNIK)**

All CAT 6 network points to be installed must be priced at 90 meters and shall include wall boxes and labelling. There are 483 data points that need to be installed.

Description	No. of Resources	Hourly Rate of Resource	Hours	Total Price
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Civil Technician (etc.)				
<b>Total</b>				

**12.7 ACCESS SWITCH INSTALLATION**

Description	No. of Resources	Hourly Rate of Resource	Hours	Total Price
<b>Protechnik</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
Type of resource 2, e.g. Technician (etc.)				
<b>Gerotek</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Alkantpan</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				





## SUPPLY CHAIN MANAGEMENT

Description	No. of Resources	Hourly Rate of Resource	Hours	Total Price
Type of resource 2, e.g. Technician (etc.)				
<b>Dockyard</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>IMT</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Head Office</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
Total				

## 12.8 DISTRIBUTION SWITCH INSTALLATION – MELLANOX

Description	No. of Resources	Hourly Rate of Resource	Hours	Total Price
<b>Protechnik</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Gerotek</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Alkantpan</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				



## SUPPLY CHAIN MANAGEMENT

<b>Dockyard</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>IMT</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Head Office</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Total</b>				

## 12.9 CABINET CLEAN-UP

Cabinet clean-up shall be costed as per the high level scope of work detailed in section 3.7 above. The clean-up are for the cabinets in the Dockyard and IMT only as these are existing cabinets.

Description	No. of Resources	Hourly Rate of Resource	Hours	Total Price
<b>Dockyard (31 Cabinets)</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>IMT (3 Cabinets)</b>				
Type of resource1, e.g. Senior Infrastructure Engineer				
Type of resource 2, e.g. Technician (etc.)				
<b>Total</b>				

## 12.10 OTHER

Description	Unit Price	Total Price
Project Management		
Other		
<b>Total</b>		



## SUPPLY CHAIN MANAGEMENT

### 12.11 WARRANTY

All standard hardware and software warranties must be supplied for a period of 5 years. The warranty needs to include access to all required software, and the Return Merchandise Authorization (RMA) for any faulty hardware.



## SUPPLY CHAIN MANAGEMENT

### WBS 002: MAINTENANCE AND SUPPORT

#### 13.1 SCOPE:

**13.1.1** The Work Breakdown Structure (WBS) includes the support activities required to ensure the cost effective attainment of goals to ensure the operational availability of the Armscor LAN Access Switches.

**13.1.2** On-site technical support and maintenance services for hardware and software are required for a period of five years.

#### SUPPORT LEVELS

**13.1.3** The offeror must provide an onsite, next business day service. No remote access will be provided to the offeror for remote support. The offeror will provide telephonic support during working hours. Call back responds time should be no more than 4 hours. Onsite support can be billable and the offeror will provide an hourly rate for this service.

**13.1.4** The WBS will be contracted on an on demand basis for on-site support and maintenance.

**13.1.5** Standard working hours are Mon to Fri 8am to 5pm. After hours include weekends and any public holiday.

#### 13.2 STATEMENT OF WORK:

**13.2.1** All calls for on-site support must be able to be logged in 2 ways:

- Email, and
- Telephonic during business hours.

**13.2.2** Each support call must have a case number assigned for tracking purposes.

**13.2.3** In the event that the case cannot be resolved via telephonic support, and on-site engineer is required next business day.

**13.2.4** A case is closed when at least one of the following conditions is met:

- The resolution provided by the Bidder has resolved the issue;
- Armscor informs the Bidder that the case is no longer an issue;
- Armscor and the Bidder agree that the issue is a result of a problem that cannot be isolated; and
- Repeated unanswered attempts for status query by the Bidder.



## SUPPLY CHAIN MANAGEMENT

### 13.2.5 ESCALATION

Escalation is designed to resolve critical impact service situations classified as having the highest degree of "urgency" as viewed by the customer.

### 13.2.6 COSTING:

**13.2.6.1** The Bidder shall provide a fixed hourly labour rate for on-site technical support and maintenance.

**13.2.6.2** Armscor reserves the right to negotiate the labour rate for subsequent years.



## SUPPLY CHAIN MANAGEMENT

### WBS 003: DOCUMENTATION AND TRAINING

#### 14.1 SCOPE:

- 14.1.1. The Work Breakdown Structure (WBS) includes the documentation and training required to ensure the cost effective attainment of goals to ensure the operational availability of the Armcor LAN switches.
- 14.1.2 Training/enablement sessions shall be provided for Technical support staff and administrators on the proposed switches. This needs to be conducted on Armcor's premises.
- 14.1.3 Training documentation (Training Material, User Manuals) shall be provided.

### 15 MANDATORY REQUIREMENTS

#### SPECIAL NOTES

- Please ensure that the switches proposed are in line with the correct part numbers.
- All CAT 6 network points to be installed must be priced at 90 meters and must include wall boxes and labelling.
- Network diagrams are required after each installed site as part of site-sign off.
- Poles for fibre links to be installed in Gerotek and Alkantpan.



## SUPPLY CHAIN MANAGEMENT

## APPENDIX A

MINIMUM PRODUCT SPECIFICATION DOCUMENT

## FIBER LINKS CAPABILITY REQUIREMENTS

Description	Comply/Non Comply
All fiber installed must have the capability of running at 10 GB in Single Mode	

## ACCESS LAYER SWITCH CAPABILITY REQUIREMENTS

The access layer switch requirement is limited to the following two HPE Aruba switch models, depending on the port count requirements.

Part #	Description	Comply/Non Comply
JL256A	Aruba 2930F 48G PoE+ 4SFP+ Switch	
JL261A	Aruba 2930F 24G PoE+ 4SFP Switch	
JW546AAE	Aruba LIC-AW Aruba Airwave with RAPIDS and VisualRF License E-LTU	
H7J32A5#ZXZ	HPE 5Y Foundation Care NBD Service - HPE Aruba AirWave	
JZ399AAE	Aruba ClearPass Cx000V VM Appl E-LTU	
H9WX9E	Aruba 5Y FC 24x7 ClearPass Cx000V VM SVC	
JZ430AAE	Aruba ClearPass NL AC 2500 CE 5yr	

Description	Comply/Non Comply
Transceivers supplied can be either HPE Aruba or ProLabs, a certified compatible version for HPE Aruba.  <b>Please indicate which transceiver will be supplied:</b> _____	
HPE Aruba Airwave and ClearPass must also be included in the price and clearly stipulated for each HPE Aruba switch supplied and for a maximum of 2 500 concurrent connections.	



## SUPPLY CHAIN MANAGEMENT

## APPENDIX A

## DISTRIBUTION LAYER SWITCH CAPABILITY REQUIREMENTS

The distribution layer switch requirement is limited to the following Mellanox switch model.

Part #	Description	Comply / Non Comply
MSN2010-CB2R	Spectrum(R) based 25GbE/100GbE 1U Open Ethernet switch with Onyx, 18 SFP28 ports and 4 QSFP28 ports	
MTEF-KIT-D	Rack installation kit for SN2100/SN2010 series 1U half-width switches allows the installation of One or Two switches side-by-side into standard depth racks	
SUP-SN2010-5S	Mellanox Technical Support and Warranty - Silver, 5 Year, for SN2010 Series Switch	

Description	Comply/Non Comply
<p>Transceivers supplied can be either Mellanox or ProLabs, a certified compatible version for Mellanox.</p> <p><b>Please indicate which transceiver will be supplied:</b> _____</p>	

## CABINETS

Description	Comply/Non Comply
All wall mounted cabinets shall be 800 cm deep. All other cabinets shall be 1 meter deep.	
The cabinets shall come standard with cable management.	
The electrical power supply unit in the cabinet must include surge protection	





## SUPPLY CHAIN MANAGEMENT

## APPENDIX A

## IDENTITY LABELS

Description	Comply/Non Comply
Identity label is the label that will bind around the UTP cable with a label depicting the port number floor number and switch number per area.	
The label will be on both ends of each CAT 6 patch lead.	

## FIBRE PATCH LEADS

Description	Comply/Non Comply
Fibre patch leads LC-LC single-mode must be 3m in length.	

## CABINET PATCH LEADS

Description	Comply/Non Comply
Patch leads in the cabinets must be CAT 6, 2m Grey.	

## BRUSH PANELS

Description	Comply/Non Comply
Brush panel must include cable management as depicted in figure 2 of the RFB.	



## SUPPLY CHAIN MANAGEMENT

## APPENDIX B

DECLARATION BY BIDDER

I/We, \_\_\_\_\_ (name of duly authorised official) in my  
capacity as \_\_\_\_\_, hereby declare AS FOLLOWS:

## 1.

The address of the Network Operation Centre (NOC) is as follows:

.....

.....

.....

.....

.....

Network Operation Centre (NOC) Telephone number/s: ..... (During  
Business Hours)

Document No : 2603-18-01-34

Section:

Doc Issue: Issue 1

Doc Date: 2020-10-27

Page: 53

of: 53

**ARMAMENTS CORPORATION OF SOUTH AFRICA SOC LTD  
(ARMSCOR)**

**QUESTIONNAIRE**

**REPLIES**

1 What is the request for bid number? .....

2 If applicable: Price basis of bid  
(if not delivered into store) .....

3 Indicate which of the following applies:

3.1 The prices are fixed.

☐

3.2 The prices are not fixed (NB: See par 9 of A-Std-0010).

☐

4 Is the delivery period (commencement after receipt of order) fixed? Y/N

.....

.....

**WHERE SUPPLIES OFFERED ARE TO BE IMPORTED, THE QUESTIONS BELOW MUST BE ANSWERED.**

5 Foreign content:

5.1 What amount in foreign currency must be remitted overseas? .....

5.2 What is the rate of exchange used in converting the amount into ZAR1, 00=.....

SA Rand and the date on which this is based? Date .....

6 Statutory costs:

6.1 Are the goods quoted on subject to customs duty,  
ad valorem customs or surcharge? .....

6.2 If so, what is the amount payable in respect of

a) Customs duty? .....

b) Ad valorem customs duty? .....

## PRICE BREAKDOWN

7. The following particulars must be furnished, failure of which may invalidate the bids.

	AMOUNT	% OF TOTAL PRICE
7.1 FOB/FCA cost of item		
7.2 Sea/Air freight		
7.3 Insurance charges		
7.4 Clearance charges		
7.5 Customs duties		
7.6 Ad valorem customs duties		
7.7 Delivery costs from port/airport to your premises		
7.8 Local content (excluding (10.10)		
7.9 Delivery costs from your premises into store		
7.10 Balance (detail to be submitted)		
<b>TOTAL</b>		

## BROAD-BASED BLACK ECONOMIC EMPOWERMENT

### ACRONYMS AND ABBREVIATIONS

B-BBEE	Broad-Based Black Economic Empowerment
CIPC	Companies and Intellectual Property Commission
COTS	Commercial Off The Shelf
EME	Exempted Micro Enterprises
MOTS	Military Off The Shelf
QSE	Qualifying Small Enterprises
SANAS	South African National Accreditations Systems

### 1. MANDATORY B-BBEE REQUIREMENT:

- 1.1 In terms of the Defence Sector Codes, contracts for goods and services shall only be awarded to a bidder that has Black Equity Ownership of at least 25% in year 1 (12 April 2019 to 31 March 2020), 30% in year 2 (01 April 2020 to 31 March 2021) and 35% in year 3 (01 April 2021) onwards, where applicable.
- 1.2 EMEs are exempted from compliance with the mandatory B-BBEE requirement.

### 2. COMPULSORY B-BBEE REQUIREMENTS

#### 2.1 Pre-Qualification Criteria

- 2.1.1 Pre-Qualification criteria will be applied to advance certain designated groups with specific bidding conditions that only one or more of the bidders may respond:

- a) Stipulated minimum B-BBEE status level e.g. level 4
- b) EMEs or QSEs
- c) Sub-contract a minimum 30% of the value of the contract to one or more:
  - (i) At least 51% black owned EMEs or QSEs
  - (ii) At least 51% black youth owned EMEs or QSEs
  - (iii) At least 51% black women owned EMEs or QSEs
  - (iv) At least 51% black owned EMEs or QSEs by people living with disabilities
  - (v) At least 51% black owned EMEs or QSEs by people living in rural or underdeveloped areas
  - (vi) At least 51% black owned EMEs or QSEs by military veterans
  - (vii) EMEs or QSEs

#### 2.2 Sub-Contracting

- a) For a contract above R30 000 000 (million), Armscor may apply subcontracting to advance designated groups.
- b) The successful bidder must subcontract 30% of the contract value to one or more of the following:
  - (i) At least 51% black owned EMEs or QSEs
  - (ii) At least 51% black youth owned EMEs or QSEs
  - (iii) At least 51% black women owned EMEs or QSEs
  - (iv) At least 51% black owned EMEs or QSEs by people living with disabilities
  - (v) At least 51% black owned EMEs or QSEs by people living in rural or underdeveloped areas
  - (vi) At least 51% black owned cooperatives
  - (vii) At least 51% black owned EMEs or QSEs by military veterans
  - (viii) EMEs or QSEs

**NB: Failure by the bidder to comply with the B-BBEE Mandatory and Compulsory Requirements as stated herein above will lead to disqualification.**

### 3. PREFERENCE POINTS FOR BROAD-BASED BLACK ECONOMIC EMPOWERMENT

- 3.1 The B-BBEE preference points will be awarded in terms of the Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017.
- 3.2 The 80/20 preference point system is applicable to all bids with a Rand value of up to R50 000 000,00 (all applicable taxes included)
- 3.3 Preference points for this bid shall be awarded for:
- |   |            |
|---|------------|
| PRICE   | <b>80</b>  |
| B-BBEE STATUS                                     | <b>20</b>  |
| Total points for Price and B-BBEE must not exceed | <b>100</b> |
- 3.4 Bidders who do not submit a valid proof of B-BBEE status will score zero (0) for preference points.

### 4. ALLOCATION OF B-BBEE POINTS

- 4.1 The B-BBEE points are to be claimed and allocated according to the table below for acquisition of services, works or goods with a value of up to R50 000 000, 00 and must be substantiated by means of a valid proof of B-BBEE.

B-BBEE status level	Points Allocated
Level 1	20
Level 2	18
Level 3	14
Level 4	12
Level 5	8
Level 6	6
Level 7	4
Level 8	2
Non-compliant	0

- 4.2 The Armscor BBE Division reserves the right to require a bidder and/or its sub-contractor(s) to substantiate any claim at any stage in the bidding process to verify and confirm the B-BBEE status of the bidder and/or its sub-contractor(s).

**5. PRINCIPLES****5.1 Valid proof of B-BBEE status is either of the following:****5.1.1 A B-BBEE Sworn Affidavit fully completed and**

- 5.1.1.1 Deposed and signed in the presence of the Commissioner of Oaths
- 5.1.1.2 Does not contradict itself (% black ownership matches compliance level)
- 5.1.1.3 Commissioner of Oaths credentials and signature are reflected.

**5.1.2 A B-BBEE Certificate issued by either the CIPC or a SANAS Accredited Verification Agency****5.1.3 An unincorporated Joint Venture / Consortium must submit a Consolidated B-BBEE Certificate in the name of the Joint Venture / Consortium issued by a SANAS accredited Verification Agency.****5.1.4 B-BBEE status must be based on the latest financial year-end information, otherwise it is invalid and unacceptable.****5.2 Sub-Contracting****5.2.1 A bidder awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the bidder concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.****5.2.2 A bidder awarded a contract must obtain the approval of Armscor prior to any changes in the subcontracting arrangement.**

**B-BBEE DECLARATION****1. Confirmation of the Bidder's Turnover**

Name of the Bidder			
Registration Number			
Financial Year End			
Turnover (As at the latest financial year end)	R	Starting (Day, Month, Year)	Ending (Day, Month, Year)

**2. Confirmation of Subcontractors involved in the execution of the order:**

Bidder	% Black Ownership	B-BBEE Status	% Value to be Contracted
1.			
Subcontractors	% Black Ownership	B-BBEE Status	% Value to be Contracted
1.			
2.			
3.			

\*Percentages of the bid value which will be subcontracted including main contractor must add up to 100%.

**3. Confirmation of Suppliers involved in the execution of the order:**

Supplier's name	% Black Ownership	B-BBEE status	% Value to be Supplied
1.			
2.			
3.			
4.			
5.			

I, the undersigned, am duly authorised to certify on behalf of the abovementioned entity that the information contained herein above is true and correct.

**AUTHORISED SIGNATURE** :..... Date: .....

Name in block letters : .....

Capacity : .....



### DECLARATION OF INTEREST

1. Any legal person, including persons employed by Armscor or the State, or persons who act on behalf of Armscor or the State or person having a kinship with persons employed by Armscor or the State, including a blood relationship, may make an bid or bids in terms of this invitation. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by Armscor or the State, or to person who acts on behalf of Armscor or the State, or to persons connected with or related to them, it is required that the bidder or his authorized representative signing the KD17 document shall declare his position vis-à-vis the evaluating authority and/or take an oath declaring his interest, where-
  - the bidder is employed by Armscor or the State or acts on behalf of Armscor or the State; and/or
  - the legal person on whose behalf the bid document is signed, has a relationship with persons/a person who are/is involved with the evaluation of the bidder(s), or where it is known that such a relationship exists between the person of persons for or on whose behalf the declarant acts and persons who are involved with the evaluation of the bid.

In order to give effect to the above, the following questionnaire shall be completed and submitted with the bid.

\* Delete whichever is not applicable

2. Are you or any person connected with the bidder directly or indirectly, (i.e. connected by kinship or marriage or associated in an enterprise, business partnership or as colleagues) employed by Armscor or the State?

\*YES / NO

2.1. If yes, state particulars.

.....

.....

.....

.....

3. Do you, or any person connected by kinship or marriage or associated in an enterprise, business, partnership or as colleagues with the bidder, directly or indirectly have any relationship or association (family, friend, other) with a person employed in the Department of Defence or South African Police Service, Correctional Service or Armscor, and who may be involved with the evaluation or adjudication of this bid.

\*YES / NO

3.1. If yes, state particulars.

.....

.....

4. Are you, or any person connected by kinship or marriage or associated in an enterprise, business partnership or as colleagues connected with the bidder, aware of any relationship (family, friend, other) between the bidder and any person employed by the Department of Defence, South African Police Service, Correctional Service or Armscor, who may be involved with the evaluation or adjudication of this bid?

\*YES / NO

4.1. If yes, state particulars.

.....

.....  
Signature of Declarant

.....  
Bid number

.....  
Date

.....  
Position of Declarant  
(See Paragraph 1)

.....  
Name of Company or Bidder

## **DEFENCE SECTOR BBBEE SWORN AFFIDAVIT – EXEMPTED MICRO ENTERPRISE**

I, the undersigned,

Full name & Surname	
Identity number	

Hereby declare under oath as follows:

- a true reflection of the facts.
1. The contents of this statement are to the best of my knowledge
2. I am a Member / Director / Owner of the following enterprise and am duly authorised to act on its behalf:

<b>Enterprise Name:</b>	
<b>Trading Name (If Applicable):</b>	
<b>Registration Number:</b>	
<b>Type of Entity (CC, (Pty) Ltd, Sole Prop etc.):</b>	
<b>Nature of Business:</b>	
<b>Definition of "Black People"</b>	As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians –  (a) who are citizens of the Republic of South Africa by birth or descent; or (b) who became citizens of the Republic of South Africa by naturalisation- i. before 27 April 1994; or ii. on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date;"
<b>Definition of "Black Designated Groups"</b>	"Black Designated Groups means: (a) unemployed black people not attending and not required by law to attend an educational institution and not awaiting admission to an educational institution; (b) Black people who are youth as defined in the National Youth Commission Act of 1996; (c) Black people who are persons with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act; (d) Black people living in rural and under developed areas; (e) Black military veterans who qualifies to be called a military veteran in terms of the Military Veterans Act 18 of 2011;"

# ANNEXURE 1 TO KD24

3. I hereby declare under Oath that:

- The Enterprise has \_\_\_\_\_% Black Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- The Enterprise has \_\_\_\_\_% Black Female Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- The Enterprise has \_\_\_\_\_% Black Designated Group Beneficiaries as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- Black Designated Group Owned % Breakdown as per the definition stated above:
  - Black Youth % = \_\_\_\_\_%
  - Black people living with disabilities % = \_\_\_\_\_%
  - Black Unemployed % = \_\_\_\_\_%
  - Black People living in Rural areas % = \_\_\_\_\_%
  - Black Military Veterans % = \_\_\_\_\_%

- Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of \_\_\_\_\_, the annual Total Revenue was R5,000,000.00 (Five Million Rands) or less

• Please confirm on the table below the B-BBEE level contributor, **by ticking the applicable box.**

100% Black Owned	<b>Level One</b> (135% B-BBEE procurement recognition)	
At Least 51% Black Owned	<b>Level Two</b> (125% B-BBEE procurement recognition)	
Less than 51% Black Owned	<b>Level Four</b> (100% B-BBEE procurement recognition)	

4. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent in this matter.

5. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Commissioner of Oaths	Deponent
<b>Credentials and Signature</b>	
	<b>Signature</b>
<b>Date</b>	<b>Date</b>

## ANNEXURE 2 TO KD24

## DEFENCE SECTOR BBBEE SWORN AFFIDAVIT – QUALIFYING SMALL ENTERPRISE

I, the undersigned,

Full name & Surname	
Identity number	

Hereby declare under oath as follows:

1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
2. I am a Member / Director / Owner of the following enterprise and am duly authorised to act on its behalf:

<b>Enterprise Name:</b>	
<b>Trading Name (If Applicable):</b>	
<b>Registration Number:</b>	
<b>Type of Entity (CC, (Pty) Ltd, Sole Prop etc.):</b>	
<b>Nature of Business:</b>	
<b>Definition of "Black People"</b>	<p>As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians –</p> <p>(a) who are citizens of the Republic of South Africa by birth or descent; or</p> <p>(b) who became citizens of the Republic of South Africa by naturalisation-</p> <p>i. before 27 April 1994; or</p> <p>ii. on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date;"</p>
<b>Definition of "Black Designated Groups"</b>	<p>"Black Designated Groups means:</p> <p>(a) unemployed black people not attending and not required by law to attend an educational institution and not awaiting admission to an educational institution;</p> <p>(b) Black people who are youth as defined in the National Youth Commission Act of 1996;</p> <p>(c) Black people who are persons with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act;</p> <p>(d) Black people living in rural and under developed areas;</p> <p>(e) Black military veterans who qualifies to be called a military veteran in terms of the Military Veterans Act 18 of 2011;"</p>

Issued in terms of the Defence Sector Code (Gazette 42391 - 12 April 2019)

3. I hereby declare under Oath that:

- The Enterprise has \_\_\_\_\_% Black Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- The Enterprise has \_\_\_\_\_% Black Female Owned as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- The Enterprise has \_\_\_\_\_% Black Designated Group Beneficiaries as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
- Black Designated Group Owned % Breakdown as per the definition stated above:
  - Black Youth % = \_\_\_\_\_%
  - Black people living with disabilities % = \_\_\_\_\_%
  - Black Unemployed % = \_\_\_\_\_%
  - Black People living in Rural areas % = \_\_\_\_\_%
  - Black Military Veterans % = \_\_\_\_\_%
- Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of \_\_\_\_\_, the annual Total Revenue was between R5,000,000.00 (Five Million Rands) to R50,000,000.00 (Fifty Million Rands)
- Please confirm on the table below the B-BBEE level contributor, **by ticking the applicable box.**

100% Black Owned	<b>Level One</b> (135% B-BBEE procurement recognition)	
At Least 51% Black Owned	<b>Level Two</b> (125% B-BBEE procurement recognition)	

4. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent in this matter.

5. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Commissioner of Oaths Credentials and Signature	Deponent
	Signature
Date	Date

**ANNEXURE 1 TO KD25**

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF ARMSCOR</b>							
BID NUMBER:		CLOSING DATE:		CLOSING TIME:			
DESCRIPTION							
<b>BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT :</b>							
ARMSCOR BID BOX VISITORS ENTRANCE (BLOCK 8), 370 NOSSOB STREET,							
<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO</b>				<b>TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b>			
CONTACT PERSON		Mr. A.L Mmbengwa		CONTACT PERSON		Mr. A.L Mmbengwa	
TELEPHONE NUMBER		012 428 3610		TELEPHONE NUMBER		012 428 3610	
FACSIMILE NUMBER		N/A		FACSIMILE NUMBER		N/A	
E-MAIL ADDRESS		scmbids@armscor.co.za		E-MAIL ADDRESS		scmbids@armscor.co.za	
<b>SUPPLIER INFORMATION</b>							
NAME OF BIDDER							
POSTAL ADDRESS							
STREET ADDRESS							
TELEPHONE NUMBER		CODE			NUMBER		
CELLPHONE NUMBER							
FACSIMILE NUMBER		CODE			NUMBER		
E-MAIL ADDRESS							
VAT REGISTRATION NUMBER							
SUPPLIER COMPLIANCE STATUS		TAX COMPLIANCE SYSTEM PIN:			OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE		TICK APPLICABLE BOX]  <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX]  <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES &amp; QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]</b>							
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS</b>							
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?						<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?						<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?						<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?						<input type="checkbox"/> YES <input type="checkbox"/> NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?						<input type="checkbox"/> YES <input type="checkbox"/> NO	
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.							

ANNEXURE 1 TO KD25

<b>1. BID SUBMISSION:</b>
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. <b>ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</b>
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
<b>2. TAX COMPLIANCE REQUIREMENTS</b>
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

**NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.**

SIGNATURE OF BIDDER:

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:

(Proof of authority must be submitted e.g. company resolution)

.....

DATE:

.....



**ARMAMENTS CORPORATION OF SOUTH AFRICA LIMITED  
(ARMSCOR)**

**INTELLECTUAL PROPERTY REQUIREMENTS**

**1 INTRODUCTION**

**1.1 What is Intellectual Property?**

Intellectual Property (or "IP") means the result or outcome of human creative effort as typically, but not exclusively, manifested and embodied in or taking the form of data items or documents.

IP typically includes design and mental activities, e.g.:

- Bills of Material (BOM's)
- Instructions,
- Reports,
- Specifications,
- Interface designs,
- Manufacturing processes,
- Material Specifications,
- Processes,
- Product designs,
- Re-engineering (maintenance/obsolescence),
- Software,
- Algorithms,
- Source Codes,
- System/integration designs,
- Test and Evaluation Methods, etc.

IP typically excludes Project Management activities and Hardware created/built according to a design or following a "recipe".

**1.2 How is IP manifested?**

IP is typically manifested and embodied in Data Items or Documents.

"Data items or Documents" means any recorded information, however recorded, including but not limited to books, manuscripts, reports, studies, algorithms, computer software, invention descriptions, registered patents, drawings, designs, plans, analyses, calculations, standards, data packs, process documents, instructions, specifications, mathematical or simulation models, compositions, photographs, video recordings, audio recordings, reports, holographic recordings, trademarks, graphical images, etc.

**NOTE:**

- ☐ The document itself is not IP
- ☐ The contents of a document represent IP
- ☐ The document becomes the tangible and recordable carrier of IP

**1.3 What is Background IP?**

For definition, refer to A-STD-0020 "Armcor General Conditions of Contract".

"Background IP" belongs to a contractor because he fully paid for the generation thereof or had bought it at his own cost, which may be used or serve as a basis from which to develop new Foreground IP.

#### 1.4 What is Historic IP?

“Historic IP” is existing IP which was created previously, and which may serve as a basis from which to develop new Foreground IP.

#### 1.5 What is Foreground IP?

For definition, refer to A-STD-0020 “Armcor General Conditions of Contract”.

“Foreground IP” is new intellectual property that is created during the execution of the order.

#### 1.6 When is IP Shared or Jointly Owned or Co-owned?

For the definition, refer to A-STD-0020 “Armcor General Conditions of Contract”.

“Shared” or “Jointly Owned” or “Co-owned” IP is IP which belongs to both the DOD and a contractor, because both contributed to the cost of generation thereof. Ownership is typically (and preferably) proportional to contribution.

Historic and Foreground IP may be either

1. Wholly owned by the DOD; or
2. Shared or Jointly Owned or Co-owned between DOD or the contractor

### 2. IP RECORDAL REQUIREMENTS

It is a requirement that prospective suppliers provide all information about applicable Intellectual Property (IP) to the bid. Armcor will record the information on their IP System that will generate a Statement of IP which will be appended to the order. The Statement of IP will serve as a contractual agreement between Armcor and the contractor in so far as IP related matters are concerned.

The recordal requirements are further described herein and broken down to an appropriate level, as follows:

#### 2.1 Background IP Utilised

For each Background IP Item that will be modified or utilised to generate Foreground IP in the execution of the quoted scope of work, provide the following details:

- Short IP description
- Original Supplier
- Cost of Establishment (If available)

#### 2.2 Historic IP Utilised

For each Historical IP item that will be modified or is required as a prerequisite in the execution of the quoted scope of work, provide the following details:

- Armcor IP Number (if available)
- Short IP description
- The next information is to be provided **per order**, on which Historic IP was established:
  - Order Number on which Historic IP was generated
  - Master record index (MRI) reference
  - Original Supplier
  - Cost of Establishment
  - Percentage Ownership (DOD)
  - Associated Milestone / Line item on the order under which the IP was established

## 2.3 Foreground IP to be generated

For each new Foreground IP item that will be generated in the execution of the quoted scope of work, provide the following details:

- IP number of Historic IP, if IP is enhanced (modified/improved/upgraded).
- Short IP description
- Master record index (MRI) reference with version and date
- Original Supplier
- Cost of Establishment
- Percentage Ownership (DOD)
- Associated Milestone / Line item on the order under which the IP will be established.

**Note 1:** The cost of establishment has always been included in item/milestone prices of order, and will continue to be so included, but will in future become visible by being shown separately in the Statement of IP appended to orders in order to properly manage such IP;

**Note 2:** To facilitate the easy and correct recording of IP, bidders and contractors will be required to utilise the specially constructed spread sheet from Armscor's web site.

After completion, the spreadsheet must be printed and attached to the bid, which will thus form an integral part of the bid.

## 3. SAFEGUARDING OF IP

### 3.1 IP Agreement

The IP agreement which will be embodied in the Statement of IP will be concluded with the main contractor in the name of the main contractor and will apply to the creating sub-contractor(s), who will remain the design authority for his particular IP.

### 3.2 Management and Safeguarding of IP

The main contractor will be responsible for the management of IP he generated during the execution of the order, as well as the management of IP generated by his sub-contractors. Upon completion of the project or order, the relevant IP will be formally transferred to the main contractor, who will then be responsible for the continued management of such IP.

The main contractor will be responsible for proper safeguarding and configuration control of IP, including off-site back-ups, as further described in various other Armscor documents, e.g. A-STD-0020 "Armscor General Conditions of Contract, K-STD-61 "Armscor Standard for Technical Contract Conditions", A-WI-014 "Armscor Security Instruction" and other documents that may be applicable.

### 3.3 IP Delivery

Notwithstanding 3.2 above, upon completion of the order, the main contractor will deliver all data items or documents relating to the IP generated during the execution of the order to Armscor ADAC Department.

### 3.4 IP Audits

Armscor is by law required to conduct an IP or intangible asset audit of all existing DOD IP every financial year. The main contractor will cooperate with Armscor's Intellectual Property Management Division and the Auditor General during the audit period and will make available all relevant information required to conduct the audit.

#### 4. COMPLETION OF THE IP INFORMATION BY MEANS OF THE ELECTRONIC FORM

##### 4.1 Background

The electronic form of the KD27 IP Information.xlsx is available as a Microsoft Excel workbook on the Armscor website ([www.armscor.co.za/Downloads/Download.asp](http://www.armscor.co.za/Downloads/Download.asp)) and must be used as template to provide the relevant IP information.

The workbook consists of the following three spreadsheets:

- “Background IP” provides a form to capture all background IP information
- “Historic IP” provides a form to capture all historic IP information.
- “Foreground IP” provides a form to capture all foreground IP information.

##### 4.2 Electronic Form Definitions

The column definitions as provided in the forms are as follows:

IP Name	A short descriptive name to identify the IP item.
IP Number	Armscor Number provided to Historic IP.
IP Description	An abridged description of the IP Item.
Original Supplier	The name of the supplier at which the IP item exists or was established.
Establishment Cost	The amount paid by Armscor to establish the IP Item (including VAT).
MRI Reference	The Master Record Index (MRI) or other document reference that uniquely describe the IP.
DOD Shareholding	The percentage of the IP that belongs to the DOD through Armscor
Associated Milestone/Item	The contractual milestone or item, which when completed, will define the point in time at which the IP will be established.

**5. INTELLECTUAL PROPERTY QUESTIONNAIRE**

I/We, the undersigned, who warrant that I/we am/are duly authorised to do so on behalf of the firm certify that the following information is correct and complete in terms of Intellectual Property relevant to the offered scope of work. (Please circle the relevant answer)

Will Background IP be applicable during the execution of the quoted scope of work? Yes No

If yes, state particulars by completing the 'Background IP' worksheet. Indicate each IP item as a separate line.

Will Historic IP be utilised and/or is it required as a prerequisite to execute the quoted scope of work? Yes No

If yes, state particulars by completing the 'Historic IP' worksheet for each IP item. Indicate each IP item as a separate line;

Will any of these Historic IP items be enhanced during the execution of the quoted scope of work? Yes No

If yes, also complete the 'Foreground IP' worksheet for those IP items

Will new Foreground IP be generated during the execution of the quoted scope of work? Yes No

If yes, state particulars by completing the 'Foreground IP' worksheet for each IP item. Indicate each IP item as a separate line.

**This completed form, along with all additional information, as requested above where relevant, populated on the KD27 Spreadsheet, have to be attached to the bid.**

**WITNESSES:**

1 \_\_\_\_\_

2 \_\_\_\_\_

SIGNATURES OF BIDDER(S)

DATE:

ADDRESS: