

PROVINCE OF
THE EASTERN CAPE



PROVINCE OF
THE EASTERN CAPE

DEPARTMENT OF EDUCATION

CONTRACT NO: SCMU6-22/23-0001

STANDARD BIDDING DOCUMENT: TO SOURCE A SITA
ACCREDITED (RFB2003, RFB740) SERVICE
PROVIDER WITH EXPERTISE IN THE PROVISIONING OF ICT
EQUIPMENT AND RELATED SERVICES AND EQUIPMENT TO
THE EASTERN CAPE DEPARTMENT OF EDUCATION (ECDoE)
FOR A CONTRACT PERIOD OF THREE (3) YEARS WITH AN
OPTION TO RENEW FOR A MAXIMUM PERIOD OF TWENTY-
FOUR (24) MONTHS BASED ON ECDoE
NEEDS AND BUDGET AVAILABILITY.

Issued by:

Province of the Eastern Cape
Department of Education
Private Bag X0032
BISHO
5605

Prepared by:

N. Mahlaza
Steve Vukile Tshwete Education Complex
Zone 6, Zwelitsha
5605

Tel: (040) 608 4524
Contact Person: Mr. P.Nxozana

Name of Bidder: _____

Closing Date: 4TH AUGUST 2022

01

SBD1

**PART A
INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/PUBLIC ENTITY)					
BID NUMBER:	SCMU6-22/23-0001	CLOSING DATE:	29 JULY 2022	CLOSING TIME:	11:00
DESCRIPTION	TO SOURCE A SITA ACCREDITED (RFB2003, RFB740) SERVICE PROVIDER WITH EXPERTISE IN THE PROVISIONING OF ICT EQUIPMENT AND RELATED SERVICES AND EQUIPMENT TO THE EASTERN CAPE DEPARTMENT OF EDUCATION (ECDoE) FOR A CONTRACT PERIOD OF THREE (3) YEARS WITH AN OPTION TO RENEW FOR A MAXIMUM PERIOD OF TWENTY-FOUR (24) MONTHS BASED ON ECDoE NEEDS AND BUDGET AVAILABILITY.				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
RECEPTION AREA OF THE DEPARTMENT OF EDUCATION,					
STEVE VUKILE TSHWETE EDUCATION COMPLEX, ZONE 6,					
ZWELITSHA					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	MR. P. NXOZANA		CONTACT PERSON	MR. C SWARTZ	
TELEPHONE NUMBER	040 608 4524		TELEPHONE NUMBER	040 608 4244	
FACSIMILE NUMBER	040 608 4663		FACSIMILE NUMBER		
E-MAIL ADDRESS	pakamile.nxozana@ecdoe.gov.za		E-MAIL ADDRESS	cecil.swartz@ecdoe.gov.za	
SUPPLIER INFORMATION					
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	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
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 [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					

**PART B
TERMS AND CONDITIONS FOR BIDDING**

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
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.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS
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 PIN 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:

03

SBD 3.1

**PRICING SCHEDULE – FIRM PRICES
(PURCHASES)**

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of bidder:.....	Bid number: SCMU6-22/23-0001
Closing Time 11:00	Closing date: 4TH AUGUST 2022

OFFER TO BE VALID FOR **120** DAYS FROM THE CLOSING DATE OF BID.

ITEM NO.	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY ** (ALL APPLICABLE TAXES INCLUDED)
----------	----------	-------------	---

- Required by:
- At:
- Brand and model
- Country of origin
- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
- Delivery basis

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

** "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable

04

SBD 3.2

**PRICING SCHEDULE – NON-FIRM PRICES
(PURCHASES)**

NOTE: PRICE ADJUSTMENTS WILL BE ALLOWED AT THE PERIODS AND TIMES SPECIFIED IN THE BIDDING DOCUMENTS.

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of bidder:	Bid number: SCMU6-22/23-0001
Closing Time 11:00	Closing date: 4TH AUGUST 2022

OFFER TO BE VALID FOR **120** DAYS FROM THE CLOSING DATE OF BID.

ITEM NO. ** (ALL APPLICABLE TAXES INCLUDED)	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY
---	----------	-------------	---------------------------

- Required by:
- At:

- Brand and model
-
- Country of origin

- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
- Delivery: *Firm/not firm

**** "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.**

*Delete if not applicable

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

1. IN CASES OF PERIOD CONTRACTS, NON FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES
2. IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$Pa = (1 - V)Pt \left(D1 \frac{R1t}{R1o} + D2 \frac{R2t}{R2o} + D3 \frac{R3t}{R3o} + D4 \frac{R4t}{R4o} \right) + VPt$$

Where:

- | | | |
|---------------|---|--|
| Pa | = | The new escalated price to be calculated. |
| (1-V)Pt | = | 85% of the original bid price. Note that Pt must always be the original bid price and not an escalated price. |
| D1, D2.. | = | Each factor of the bid price eg. labour, transport, clothing, footwear, etc. The total of the various factors D1, D2...etc. must add up to 100%. |
| R1t, R2t..... | = | Index figure obtained from new index (depends on the number of factors used). |
| R1o, R2o | = | Index figure at time of bidding. |
| VPt | = | 15% of the original bid price. This portion of the bid price remains firm i.e. it is not subject to any price escalations. |

3. The following index/indices must be used to calculate your bid price:

Index..... Dated.....	Index..... Dated.....	Index..... Dated.....
Index..... Dated.....	Index..... Dated.....	Index..... Dated.....

4. FURNISH A BREAKDOWN OF YOUR PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTOR (D1, D2 etc. eg. Labour, transport etc.)	PERCENTAGE OF BID PRICE

06

B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

08

SBD4

with any person who is employed by the procuring institution? YES/NO

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? YES/NO

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, _____ the _____ undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

09

SBD4

institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature Date

.....
Position Name of bidder

ECBD 6.1**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017**

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to all bids:
- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
 - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2

- a) The value of this bid is estimated to **exceed R50 000 000** (all applicable taxes included) and therefore the **90/10 Preference Point System shall be applicable**.

- 1.3 Points for this bid shall be awarded for:

- (a) Price; and
(b) B-BBEE Status Level of Contributor.

- 1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	90
B-BBEE STATUS LEVEL OF CONTRIBUTOR	10
Total points for Price and B-BBEE must not exceed	100

- 1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

11

2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
 - 1) B-BBEE us level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) & \mathbf{or} & P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)
 \end{array}$$

Where

P_s = Points scored for price of bid under consideration

P_t = Price of bid under consideration

P_{min} = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points)
 (Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)

YES <input type="checkbox"/>	NO <input type="checkbox"/>
------------------------------	-----------------------------

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

13

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at least 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. **DECLARATION WITH REGARD TO COMPANY/FIRM**

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

8.4 **TYPE OF COMPANY/ FIRM**

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

8.5 **DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

.....

.....

.....

.....

8.6 **COMPANY CLASSIFICATION**

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 Total number of years the company/firm has been in business:.....

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBEE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

14

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution.

WITNESSES

1.

2.

.....
SIGNATURE(S) OF BIDDERS(S)

DATE:

ADDRESS

.....

.....

15

THE NATIONAL TREASURY

Republic of South Africa



**GOVERNMENT PROCUREMENT:
GENERAL CONDITIONS OF CONTRACT**

July 2010

16

GOVERNMENT PROCUREMENT
GENERAL CONDITIONS OF CONTRACT
July 2010

NOTES

The purpose of this document is to:

- (i) Draw special attention to certain general conditions applicable to government bids, contracts and orders; and
- (ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

- The General Conditions of Contract will form part of all bid documents and may not be amended.
- Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.

TABLE OF CLAUSES

1. Definitions
2. Application
3. General
4. Standards
5. Use of contract documents and information; inspection
6. Patent rights
7. Performance security
8. Inspections, tests and analysis
9. Packing
10. Delivery and documents
11. Insurance
12. Transportation
13. Incidental services
14. Spare parts
15. Warranty
16. Payment
17. Prices
18. Contract amendments
19. Assignment
20. Subcontracts
21. Delays in the supplier's performance
22. Penalties
23. Termination for default
24. Dumping and countervailing duties
25. Force Majeure
26. Termination for insolvency
27. Settlement of disputes
28. Limitation of liability
29. Governing language
30. Applicable law
31. Notices
32. Taxes and duties
33. National Industrial Participation Programme (NIPP)
34. Prohibition of restrictive practices

18

General Conditions of Contract

1. Definitions

1. The following terms shall be interpreted as indicated:
 - 1.1 "Closing time" means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.2 "Contract" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.3 "Contract price" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
 - 1.4 "Corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
 - 1.6 "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
 - 1.7 "Day" means calendar day.
 - 1.8 "Delivery" means delivery in compliance of the conditions of the contract or order.
 - 1.9 "Delivery ex stock" means immediate delivery directly from stock actually on hand.
 - 1.10 "Delivery into consignees store or to his site" means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
 - 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the

RSA.

- 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 "GCC" means the General Conditions of Contract.
- 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such

obligations of the supplier covered under the contract.

1.25 "Written" or "in writing" means handwritten in ink or any form of electronic or mechanical writing.

2. Application

2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.

2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.

2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.

3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za

4. Standards

4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information; inspection.

5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.

5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights

6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

7. Performance security

- 7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - (b) a cashier's or certified cheque
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or

analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

9. Packing

9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.

10.2 Documents to be submitted by the supplier are specified in SCC.

11. Insurance

11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

12. Transportation

12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental services

13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;

23

- (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1 As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take

24

such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

- 16. Payment**
- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in Rand unless otherwise stipulated in SCC.
- 17. Prices**
- 17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized in SCC or in the purchaser's request for bid validity extension, as the case may be.
- 18. Contract amendments**
- 18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.
- 19. Assignment**
- 19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.
- 20. Subcontracts**
- 20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.
- 21. Delays in the supplier's performance**
- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the

supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.

21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without canceling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

23. Termination for default

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
- (b) if the Supplier fails to perform any other obligation(s) under the contract; or
- (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any

person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

- 23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.
- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
- (i) the name and address of the supplier and / or person restricted by the purchaser;
 - (ii) the date of commencement of the restriction
 - (iii) the period of restriction; and
 - (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

- 23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

**24. Anti-dumping
and countervailing
duties and rights**

- 24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which

may be due to him

**25. Force
Majeure**

- 25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.
- 25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

**26. Termination
for insolvency**

- 26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

**27. Settlement of
Disputes**

- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.
- 27.5 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
 - (b) the purchaser shall pay the supplier any monies due the supplier.

**28. Limitation of
liability**

- 28.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6;
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and

- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.
- 29. Governing language** 29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.
- 30. Applicable law** 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.
- 31. Notices** 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.
- 32. Taxes and duties** 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.
- 33. National Industrial Participation Programme (NIP)** 33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.
- 34 Prohibition of Restrictive practices** 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.

29

- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

Js General Conditions of Contract (revised July 2010)



DIRECTORATE: INFORMATION COMMUNICATION TECHNOLOGY

TERMS OF REFERENCE

BID NUMBER:	SCMU6 – 19/20 - 0001
DESCRIPTION:	To source a SITA Accredited (RFB740, RFB2003) Service Provider(s) with expertise in the provisioning of ICT Equipment and related services and equipment to the Eastern Cape Department of Education (ECDoE) for a contract period of three (3) years with an option to renew for a maximum period of 24 (twenty-four) months based on ECDoE needs and budget availability.
PUBLISH DATE:	22 July 2022
VALIDITY PERIOD:	90 days from the closing date
CLOSING DATE:	4 th August 2022
CLOSING TIME:	11h00
BID RESPONSES MUST BE HAND DELIVERED / COURIERED TO:	The Eastern Cape Department of Education Steve Tshwete Complex, Zone 6 Zwelitsha
ATTENTION:	Bidders must ensure that bids are delivered in time to the correct address and deposited in the tender box which is located at the gate in the main building of the ECDoE, Head Office in Zwelitsha. If a bid is late, it shall not be accepted for consideration. The Eastern Cape Department of Education's tender box is accessible Monday to Friday, from 08h00 to 16h00. Bidders must advise their couriers of the instruction above to avoid misplacement or loss of bid responses. It is the onus of the bidder to ensure that the bid documents are delivered on time regardless of the mode of delivery.

BIDDER'S NAME:

31

Full Name of Bidding/Tendering Entity:	
Contact Person:	
Contact Number:	
Contact Email Address:	

Bidder Authorized Signatory:

Initials and Surname:

Signature:

.....

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Please indicate whether it is the original or copy, tick the applicable block. The copy must be a true reflection of the original signed off by the delegated signatory and two witnesses					
ORIGINAL		COPY		NUMBER SUBMITTED:	
SOFT COPY PDF (USB)					

GLOSSARY

AWARD	Conclusion of the procurement process and final notification to the successful bidder
B-BBEE	Broad-based Black Economic Empowerment (BBBEE) Act, 2003 (Act No. 53 of 2003) and BBBEE Amended Act, 2013 (Act No. 46 of 2013) and the Codes of Good Practice issued thereunder by the Department of Trade and Industry (DTI)
BID	Written offer in a prescribed or stipulated form in response to an invitation by ECDoE for the provision of goods, works or services
CONTRACTOR	Organization with whom ECDoE will conclude a contract and potential service level agreement after the final award of the contract based on this Request for Bid.
DTI	Department of Trade and Industry
EME	Exempted Micro Enterprise
QSE	Qualifying Small Enterprise
ECDOE DEPARTMENT /	Eastern Cape Department of Education
SITA	State Information Technology Agency
GCC	General Conditions of Contract
ORIGINAL BID	Original document signed in ink, or Copy of original document signed in ink
ORIGINALLY CERTIFIED	To comply with the principle of originally certified, a document must be both stamped and signed in original ink by a commissioner of oaths.
SCM	Supply Chain Management
ICT	Information Communication Technology
OEM	Original Equipment Manufacturer
VAT	Value Added Tax
SLA	Service Level Agreement between the Service Provider and ECDoE that defines the level of service expected from both parties.
TOR	Terms of Reference
PPPFA	Preferential Procurement Policy Framework Act

33

DOCUMENTS IN THIS BID DOCUMENT PACK

Bidders are to ensure that they have received all pages of this document, which consist of the following sections:

SECTION A

Note: Documents in this section must be completed and returned or supplied with bids as prescribed.

- **Section A1: SBD1: Invitation to Bid**
- **Section A2: Executive Summary and Bid submission conditions and Instructions**
- **Section A3: Terms of Reference**

SECTION B

Note: Documents in this section must be completed and returned or supplied with bids as prescribed.

- **Section B1: Declaration of Interest (SBD 4)**
- **Section B6: General Conditions of Contract**

34

SUBMITTING BIDS

One (1) original and one (1) hard copy and one (1) Soft copy in PDF on USB, i.e. two documents and a memory stick containing the bidder's response must be handed in/delivered to:

The deposit box situated at:

Reception, Steve Vukile Tshwete Education Complex
Eastern Cape Department of Education Head Office
Zwelitsha Zone 6
King Williams Town
5608

Tenders must be delivered and deposited into the tender box between 08:30 and 16:00, Mondays to Fridays and, prior to the closing date, and between 08:30 and 11:00 on the closing date on the 26th of July 2022.

No faxed or e-mailed bids will be accepted. No CD-ROMs will be accepted. All tenders must be submitted on the official forms or online on the stipulated site / link / platform.

Bidders are encouraged to submit one (1) original and one (1) copy of their bid proposal and one (1) Soft copy in PDF on USB. The information in the original file and copy file and PDF must be identical. The original and copies will be distributed to the bid evaluation committee and must contain the same information; and must all be clearly marked and professionally presented. All bid documents should be referenced.

Respondents should ensure that tender documents are delivered to ECDoE before the closing date and time to the correct physical address. If the tender document is late, it will not be accepted and will be disregarded.

Bidders must indicate on the cover of each document whether it is the original or a copy. Copies must be numbered, e.g., Copy 1. Bids should be submitted in a sealed envelope, marked with:

- Bid number **SCMU6-22/23-0001**
- Closing date and time (**4TH AUGUST 2022 AT 11H00**)
- The name and address of the bidder

Documents submitted on time by bidders will not be returned.

LATE BIDS

Bids received late will not be considered at all. A bid will be considered late if it arrived even one second after 11:00 am or any time thereafter. The tender (bid) box shall be locked at exactly 11:00 am and bids arriving late will not be considered under any circumstances. Bidders are therefore strongly advised to ensure that bids be dispatched allowing enough time for any unforeseen events that may delay the delivery of the bid.

Bids sent to the ECDOE via courier shall be deemed to be received at the date and time of arrival at the ECDOE premises (tender/bid box). Bids received at the physical address after the closing date and time of the bid, shall therefore be deemed to be received late.

Bidders should allow reasonable time to access the premises due to security arrangements that need to be observed.

RESPONSE STRUCTURE:

The contents of the **BID/TENDER** document must be as follows, and numbering below, with each schedule punched, placed in a file and separated from the next schedule with a file divider.

Please complete the checklist below to verify your submission of the relevant documents:

Schedules	Description	Submitted (tick box below):	
		Yes	No
Schedule 1	Entity registration documentation		
Schedule 2	Original Valid Tax Clearance Certificate/tax pin		
Schedule 3	BBB-EE Certificate / or BBEE Sworn Affidavit (where applicable) signed and stamped by Commissioner of Oaths		
Schedule 4	National Treasury Central Supplier Database proof of registration		
Schedule 5	Letter from Bank confirming banking details (not older than 3 months from date of closing date of tender)		
Schedule 6	Completed and signed Tender Documents, including the following: <ul style="list-style-type: none"> ▪ SBD ▪ General Conditions of Contracts (with every page initialed) 		
Schedule 7	Detailed Bid proposal in response to bid specification requirements		
Schedule 8	Valid certificates/letters: <ol style="list-style-type: none"> 1. Valid SITA product certificate for the proposed ICT Equipment 2. Valid Warranty Service Provider Accreditation certificate for the proposed desktop, notebooks (the department generally procures more quantities of laptops and desktop), printers and servers. 3. Proof of SITA Accreditation for RFB740 and RFB2003 4. Valid Contract or Letter from the Original Equipment Manufacturer (OEM) confirming that the bidder can order and keep stock of spare parts. 5. As per SITA engagement models, only suppliers based in the Eastern Cape should respond to the RFQ. 		
Schedule 9	Bidders Quotations reflecting Brand, Model and Product Code for each item quoted.		
Schedule 10	Consent by the entity and its directors to perform the necessary background checks which includes amongst others, the Credit Bureau Credit checks.		

36

CONTRACT NEGOTIATIONS

The successful bidder (s) will be required to enter into a written contract/SLA with ECDOE. Should the awarded bidder fail to sign the SLA within a reasonable timeframe (14 working days) deemed by ECDOE, ECDOE reserves the right to cancel the award/contract and award the tender to the 2nd placed bidder.

The **GENERAL CONDITIONS OF CONTRACT (GCC)** will form the basis of the contract; however, ECDOE reserves its rights to impose additional terms and conditions at its sole discretion. General Conditions of Contract are obtainable from www.treasury.gov.za. The General Conditions of Contract must be accepted.

1. PURPOSE

- 1.1. The Eastern Cape Department of Education herein after referred to as ECDoE, wishes to establish a contract for a period of three years to procure ICT Equipment and related services which includes all public schools in the Eastern Cape.
- 1.2. The contract is on a needs basis and subject to budget availability.

2. BACKGROUND

- 2.1. The ECDoE is comprised of 4300 Administrative staff supporting and servicing more than 5300 Public School; more than 1.7 million learners; 64000 teachers. Its administrative portfolio is spread across forty-one (41) sites within the Eastern Cape Province. The mandate of the Administrative portion of the ECDoE is to support schools. The recent pace of enforcing ICT as an enabler has accelerated greatly in the past year requiring a concerted focus on ICT Planning and provision of ICT Equipment and related services.
- 2.2. The contract(s) will cover the entire ECDoE portfolio, i.e., Administration, at all districts; including Head Office; and all public schools in the Eastern Cape.

3. BID OBJECTIVES

- 3.1. To procure ICT Equipment and related services and equipment for ECDoE Administration and Schools. The ECDoE invites suitably qualified SITA Accredited (RFB740 and RFB2003) service provider/s to bid to supply the specified equipment listed under Annexure A. Suppliers may bid in part based on the category accreditation with SITA.

4. DURATION

- 4.1. The contract will run for a period of three (3) years from the date of award subject to the signing of a Service Level Agreement (SLA). This initial 3-year period may be extended for a further period of two years (2) years at the discretion of the ECDoE and based on following:
 - 4.1.1. Budget availability,
 - 4.1.2. The performance of the Service Provider/s, and
 - 4.1.3. Should the need for the services still exist.
 - 4.1.4. The Service Provider/s may be requested to scale down services at any period of the contract.
 - 4.1.5. If the Service Provider/s fails to provide the services as stipulated herein, the contract will be cancelled prior to its expiry.

5. TECHNICAL SPECIFICATION AND DELIVERABLES

- 5.1. Successful bidder/s must deliver the type of equipment as specified in ANNEXURE A and according to their SITA Accreditation
- 5.2. The bidder/s is/are responsible for ensuring that quality equipment is delivered without damage, including out of box damage.
- 5.3. All prices must be shown in South African Rands and cents (all inclusive) and quoted inclusive of Value Added Tax.
- 5.4. All prices must be firm for Year 1 and thereafter for Years 2 and 3, any adjustment to the Unit Price will be calculated according to the Consumer Price Index (CPI) and Rand Dollar Exchange Rate on date of quotation.

EVALUATION PROCESS

6.1. PHASE 2: ADMINISTRATION AND MANDATORY REQUIREMENTS AND BID ELIMINATION CRITERIA

Bidders will be disqualified if they fail to:

- 6.2.1 Sign and fully complete all the SBDs
- 6.2.2 Submit audited financial statements from a registered and reputable auditing firm/ accountant for the period of three years from 2019, 2020 and 2021.
- 6.2.3 Proof of funding or a bank letter from a reputable financial institution such as a bank, small business funding institutions for an amount not less than numbers for the institution. The Department will verify such a letter with those institutions if discovered that the letter is not authentic the bidder will be disqualified. R5million rands. The letter must carry a stamp of the funding institution, valid date which is within three months of bid,
- 6.2.4 Submit all required certificates:
 - 6.2.4.1 Valid SITA product certificate for the proposed ICT Equipment.
 - 6.2.4.2 Valid Warranty Service Provider Accreditation certificate for the proposed desktop, notebook, and servers (the department generally procures more quantities of laptops, desktop, and servers)
 - 6.2.4.3 Proof of SITA Accreditation for RFB740 and RFB2003 in the Eastern Cape.
- 6.2.5 Valid Contract or Letter from the Original Equipment Manufacturer (OEM) confirming that the bidder can order and keep stock of spare parts.
- 6.2.6 Bidders Quotations reflecting Brand, Model, Product Code for each item quoted in Annexure A. **This is very important.**
- 6.2.7 Failure to submit 2 bid documents in hard copy and Soft Copy in PDF on USB (original, copy and USB)
- 6.2.8 Bidders must submit a valid B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or a sworn affidavit, as applicable.

Failure to comply with all the above-mentioned requirements will result in the bid being disqualified.

6.3 PHASE 3: PRICE AND BBEE

The bid proposals shall be evaluated in accordance with the 90/10 principle.

Points awarded for B-BBEE Status Level of Contribution

In terms of Regulation 4 of the Preferential Procurement Policy Framework Act No 5 of 2000, responsive bidders will be adjudicated on a 90/10 preference point system in terms of which points are awarded to bids as follows:

39

B-BBEE Status Level of Contributor	Number of points (90/10 system)
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

6. BID CONDITIONS

- 6.1 Bidders must submit their bid proposals in line with the bid specifications. All prescribed services must form part of the bid proposal. Partial bids shall be disqualified,
- 6.2 ECDoE reserves the right to award the bid in whole or partially,
- 6.3 ECDoE reserves the right not to award the bid,
- 6.4 The highest scoring bidder(s) might be expected to present their proposals to the Bid Evaluation Panel,
- 6.5 Thorough reference checks shall be conducted. Bidders shall be disqualified if found to have misrepresented information in their bid proposals,
- 6.6 Planned Joint Ventures related to this project shall only be considered to be valid if there is proof of agreement signed by all parties involved. In case of the joint venture each party must submit the following:
 - 6.6.1 Original or certified copies of their entities' audited financial statements,
 - 6.6.2 Joint BBEE Certificate,
- 6.7 Bids must be delivered by the stipulated time to the correct address and late bids shall not be accepted for consideration,
- 6.8 All bids must be submitted on the official forms provided not to be re-typed or online,
- 6.9 Bidders must register on the Central Supplier Database (CSD) to upload mandatory information namely: (business registration/ directorship/membership/identity numbers; tax compliance status; and banking information for verification purposes),
- 6.10 B-BBEE certificate or sworn affidavit for B-BBEE must be submitted with the bidding documents,
- 6.11 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 Legislation or Special Conditions of Contract,
- 6.12 Bidders must ensure compliance with their tax obligations,
- 6.13 The bidder accepts that all costs incurred in the preparation, presentation and demonstration of the solution offered by it shall be for the account of the bidder.
- 6.14 All supporting documentation and manuals submitted with its bid will become ECDoE's property unless otherwise stated by the bidder/s at the time of submission.

7. SPECIAL CONDITIONS

- 7.1 A bid not complying with the minimum requirements stated hereunder will be regarded as not being an "Acceptable bid" and as such will be rejected,
- 7.2 If any pages have been removed from the bid document or have not been submitted,
- 7.3 If the bid document is completed using a pencil. Only black ink must be used to complete the bid Document,
- 7.4 Bidders are requested to submit one (1) original and a copy of their proposals indexed and separated for ease of reference and one (1) soft copy in pdf on usb,
- 7.5 The bid has not been properly signed by a party having the authority to do so,
- 7.6 A duly signed and dated original copy of the company's relevant resolution granting, signing and authority of their members or board of directors must be submitted,
- 7.7 Bid offer will be rejected if a bidder or any of the directors is listed on the Register of Bid Defaulters in terms of the Prevention and Combating of Corrupt Activities Act 2004 as a person prohibited from doing business with the State,
- 7.8 Bid offers will be rejected if the bidder has abused the ECDoE's Supply Chain management System,
- 7.9 Failure to attach a copy of a valid signed Joint Venture /Consortium agreement (If applicable) the bid document,
- 7.10 Failure to complete and sign the certificate of independent determination or disclosing of wrong Information,
- 7.11 The ECDoE may, before a bid is adjudicated or at any time require the bidder to substantiate claims it has made with regard to preference;
- 7.12 This bid specification shall prevail in the event of a contradiction between the service standard and provision of this bid specification document,
- 7.13 A contract may, on reasonable and justifiable grounds, be awarded to a bidder that did not score the highest number of points.

8. OTHER TERMS AND CONDITIONS AFTER THE AWARD OF THE BID

8.1 Contract Information

- 8.1.1 The awarded bidders are expected to have the bid document and be well versed with it at all times as this is a binding document.
- 8.1.2 Bidders have the opportunity to dispute the awarding of the tender within five (5) days after award failing which the ECDoE will not accept any disputes thereafter.
- 8.1.3 The ECDoE reserves the right to request the Service Provider who has been awarded the contract to delay or postpone commencement with the contract within 5 (five) days in the event of a dispute being lodged.

8.2 Unsatisfactory performance

- 8.2.1 Due to the importance attached by the ECDoE to this bid, successful bidders will be expected to observe the bid conditions contained in this specification as well as the time frames relating to the deliverables;
- 8.2.2 The ECDoE may terminate the Agreement with immediate effect and without prior notice to the Service Provider
- 8.2.3 Bidders are therefore requested to take note of all the clauses of the specifications in this invitation to the bid;
- 8.2.4 The ECDoE reserves the right to exercise a breach of contract clause as stipulated in the General Conditions of Contract (GCC), should the appointed services providers perform unsatisfactorily and fail to remedy such poor or non-performance within seven days of receipt of a written request to do so, this excludes cases that can be mutually agreed upon to be beyond reasonable control of the supplier and could be viewed to be a supervening impossibility to perform.
- 8.2.5 The Validity period for the tender after closure will be 90 days.

9. CONTRACT ADMINISTRATION

- 9.1 Successful bidders must advise the Supply Chain Management Unit (Contract Management) immediately when unforeseeable circumstances will adversely affect the execution of the contract,
- 9.2 Full particulars of such circumstances as well as the period of delay must be furnished,
- 9.3 The administration of the bid and contract i.e. evaluation, award, distribution of contract circulars, contract price adjustments etc., shall be the sole responsibility of the Supply Chain Management Unit.

43

10. ALL PROPOSALS SHOULD BE POSTED OR HAND DELIVERED TO:

The Eastern Cape Department of Education
Steve Tshwete Complex, Zone 6
Zwelitsha
KING WILLIAM'S TOWN

Submissions can be hand delivered into the tender box between 08h00 and 16h00 Monday to Friday prior the closing date of the 4th August 2022

Submissions should be in a sealed envelope marked the name of the PROPOSAL NUMBER *SCMU6-22/23-0001:To source a SITA Accredited (RFB740, RFB2003) Service Provider(s) with expertise in the provisioning of ICT Equipment and related services and equipment to the Eastern Cape Department of Education (ECDoE) for a contract period of three (3) years with an option to renew for a maximum period of 24 (twenty-four) months based on ECDoE needs and budget availability.*

11. CLOSING DATE AND TIME

The closing date is 4 AUGUST 2022 at 11h00. No late submission will be accepted.

12. BID ENQUIRIES AND CONTACT PERSON

No telephonic or any other form of communication relating to this proposal will be permitted with any other ECDoE member of staff either by Bidders (as collective bidding team or individual of the bidding team), representative of Bidders, associates of Bidders, shareholders of Bidders, other than with the named individual stated below.

ANY MEANS OF ATTEMPT TO INFLUENCE ADJUDICATION PROCESS OR OUTCOMES OF ADJUDICATION PROCESS WILL RESULT IN IMMEDIATE DISQUALIFICATION OF THE ENTIRE PROPOSAL.

13. REQUEST FOR FURTHER INFORMATION

All enquiries regarding the bid document and information may be directed to the following officials:
Technical Enquiries:

Mr. C. Swartz
Tel: 040 608 4244
Email address: cecil.swartz@ecdoe.gov.za

Bid Enquiries:
Mr. P Nxozana
Tel 040 608 4524
Email address: pakamile.nxozana@ecdoe.gov.za

RECOMMENDED / NOT RECOMMENDED

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Chairperson:

.....
Date

Bid Spec Committee



Member: Departmental Bid Spec Committee

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Date



Member: Departmental Bid Spec Committee

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Date

Member: Departmental Bid Spec Committee

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Date

Member Departmental Bid Spec Committee

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Date

APPROVED / NOT APPROVED

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Superintendent-General
Mr M QWASE

13 JULY 2022

.....
Date

46

ANNEXURE A- PRICING SCHEDULE

- 1 It is compulsory that the bidder completes this pricing schedule in full. Failure to do so will invalidate the bid.
- 2 The same format as presented in Annexures A is to be utilized.
- 3 The equipment contained in the annexure are the minimum required and acceptable technical specification. Bidders are allowed to quote on the equivalent to the minimum specification as state in the Annexure
- 4 Bidders must submit detailed quotations reflecting Brand, Model, Product Code for each item quoted in Annexure A.
- 5 The pricing schedule must be all inclusive as indicated in the scope of work above e.g.: Value Added Tax (VAT) and delivery within Eastern Cape. The list of costs cited herein is not exhaustive.
- 6 All prices must be firm for Year 1 and thereafter for Years 2 and 3, any adjustment to the Unit Price will be calculated according to the Consumer Price Index (CPI) and Rand Dollar Exchange Rate on date of quotation. Should the specific model procured becomes out dated the supplier must inform the EDCDoE in writing. Together with the EDCDoE the supplier must negotiate and replace the outdated model with the current updated version.

47

ANNEXURE A

A. RFB 740

1 SITA Note 1

SITA Contract Category	Chromebook/Notebook	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preload OS	Windows 11 Pro 64	R
	Preferred Product or Equivalent	Lenovo IdeaPad Duet3i	
	Typical Function	General Classroom and Office Use	
	Processor	Intel® Pentium® N5030	
	Color	Graphite Grey	
	Display	10.3" IPS (1920 x 1200) 340 nits, 96% sRGB	
	Graphics	Integrated Intel® Graphics	
	Camera	Front : 2M Fixed-Focus CMOS Rear : 5M Auto-Focus	
	Total Memory	DDR4 : 8 GB	
	Onboard Memory	8GB DDR4 3200MHz Onboard	
	DIMM Memory	8GB DDR4 3200MHz SoDIMM	
	Storage Selection	eMMC 5.1 : Up to 128 GB	
	Wireless LAN	2x2 WiFi 5 (802.11 ac)	
	WWAN Selection	LTE	
	Battery	MobileMark® 2014 : 9.3 Hours 1080p Video Playback : 10.7 Hours	
	Power Adapter	65W AC Adapter PCC (3pin)-ZAF (USB Type C) + Clover Cable	
	Keyboard	Folio Keyboard Starting at 269 g (0.59 lbs)	
	Publication	Publication-English	
	OS DPK	W11 Pro	
	Preload Language	Windows 11 Pro 64 English	
	Display Shell	10.3" IPS (1920 x 1200) 340 nits, 96% sRGB	
	Input/Output (I/O) Ports	2x USB C (PD 3.0 + DisplayPort™ + USB 3.2 ³ Gen 2) Audio Jack 1 x Card Reader (Combo with LTE SIM Cardfor LTE SKU)	
	Standard Features	Folio Keyboard, Cortana, 10-finger Multitouch Direct Bonding	
Bluetooth	Bluetooth® 5.0		
Audio	2 x 1W Speakers with Dolby Audio™, Dual Microphone		

48

	Warranty Service	3Y Premier Support with Onsite NBD Upgrade from 3Y Depot/CCI	
	Device management (Track and Trace)	Absolute Resilience MSP OEM License (36 Months)	R

2 SITA Note 2

SITA Contract Category	Value Laptop	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or equivalent	Lenovo Thinkpad L14/L15 Gen2	R
	Typical Function	General Office Use	
	Preload OS	Windows 11 Pro 64	
	Processor	12th Generation Intel® Core™ i3-1215U Processor (E-cores up to 3.30 GHz P-cores up to 4.40 GHz)	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Color	Black	
	Display	15.6" FHD (1920 x 1080), IPS, Anti-Glare, Non-touch, 250 nits	
	Graphics	Integrated Intel® UHD Graphics	
	Camera	FHD IR/RGB Hybrid with Microphone	
	Total Memory	4 GB DDR4-3200MHz (SODIMM)	
	Onboard Memory	4 GB DDR4-3200MHz (SODIMM)	
	DIMM Memory	4 GB DDR4-3200MHz (SODIMM)	
	Storage	256 GB SSD M.2 2242 PCIe Gen4 TLC Opal	
	Wireless LAN	Intel® Wi-Fi 6 AX201 2x2 AX & Bluetooth® 5.0 or above with vPro®	
	Wireless WAN	WWAN Ready - with Antenna, without Module	
	Battery	3 Cell Li-Polymer 42Wh	
	Power Adapter	65W USB-C 90%PCC AC Adapter Black (3pin) - ZAF	
Keyboard	Keyboard Black US International (EURO) with Number Pad		
Publication	Publication - Polish/Portuguese/English		

49

	OS DPK	W11 Pro	
	Preload Language	Windows 11 Pro 64 English	
	System Unit	L15G3_I3-1215U_IG	
	Display Shell	15.6" FHD (1920 x 1080) IPS Anti-Glare 250 nits Non-Touch, FHD IR/RGB Hybrid with Microphone, ThinkShutter, WWAN	
	Pointing Device	ClickPad, No NFC	
	Ethernet	Wired Ethernet	
	Warranty Service	3Y Premier Support with Onsite, 4 Hour Response, Next Business Day Fix	
	Device management (Track and Trace)	Absolute Resilience MSP OEM License (36 Months)	R

3 SITA Note 3

SITA Contract Category	Thin and light laptop	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or Equivalent	Fujitsu Lifebook U9311	R
	Typical Function	Thin and light notebook for Management and Executives	
	Preload OS	Windows 11 Pro 64	
	Color	Black/Red	
	Graphics	Integrated, Intel® Iris® Xe Graphics	
	Processor	Intel® Core™ i7-1185G7 processor (4 Cores / 8 Threads)	
	Onboard Memory	8 GB, onboard LPDDR4x (4,267 MHz) Dual channel support	
	Wireless LAN	Intel Wi-Fi 6 AX201 2x2ax, Bluetooth Version 5.0 or above vPro	
	LAN	10/100/1,000 MBit/s Intel® I219LM	
	Wireless WAN	LTE Sierra Wireless EM9191 (5G) (Downlink speed up to 3 Gbit/s MB/s, Uplink speed up to 660 Mbps MB/s)	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Absolute BIOS Selection	BIOS Absolute Enabled	
	Display	33.8 cm (13.3-inch), IPS, FHD, 1,920 x 1,080 pixel, Anti-glare multi-touch, 350 cd/m ² , 1500:1	
	Camera	HD Camera with Microphone	
	Display Shell	13.3" FHD(1920x1080), IPS, Anti Reflection/Anti Smudge, 2D-Camera, Mic, WWAN	

Provision of ICT Equipment for a period of 3 years

	Security Reader	Embedded PalmSecure™ sensor	
	Battery	Lithium polymer battery 4-cell, 50 Wh, Fast Charge: Up to 80% in 1 hr	
	Storage Selection	PCIe-SSD, 1 TB M.2 NVMe module, SED	
	Power Adapter	20 V / 65 W (3.25 A), 100 V - 240 V, 50 Hz - 60 Hz, 3-pin (grounded) Type-C AC-Adapter slim&light	
	Keyboard	Backlit Keyboard	
	Preload Language	Windows 11 Pro 64 English	
	OS DPK	W11 Pro	
	Publication	Publication-English	
	Ethernet Dongle	RJ45 Extension Connector	
	Package Box Type	Standard Packaging	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	
	Device management (Track and Trace)	Absolute Resilience License (36 Months)	R

4 Note 4 (i5 CPU)

SITA Contract Category	Midrange Business Laptop	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or equivalent	Fujitsu Lifebook E5411/E5511	R
	Typical Function	General Office or Classroom Use	
	Preload OS	Windows 11 Pro 64	
	Color	Black	
	Graphics	Intel® FHD Graphics (with Single channel memory), Intel® Iris® Xe Graphics (with Dual channel memory)	
	Processor	Intel® Core™ i5-1135G7 processor (4 Cores / 8 Threads) *	
	Onboard Memory	8 GB (1 module(s) 8 GB) DDR4, 3,200 MT/s, SO DIMM	
	Wireless LAN	Intel WiFi 6 AX201 - WLAN, BT, SRD cat. 1	
	LAN	10/100/1,000 MBit/s Intel® I219LM	
	Wireless WAN	LTE Sierra Wireless EM7421 (cat.7) - UMTS, LTE	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Absolute BIOS Selection	BIOS Absolute Enabled	
	Display	FHD - Viewing angle: Left/Right 80°, Top 80°, Bottom 80°; Color Gamut: 45% NTSC, response time 25 ms *	
	Camera	HD Camera with Microphone	
	Display Shell	35.6 cm (14.0-inch), FHD, 1,920 x 1,080 pixel, Anti-glare IPS display, 220 cd/m² (FHD), 700:1 (FHD)	

		Or 39.6 cm (15.6-inch), FHD, 1,920 x 1,080 pixel, Anti-glare IPS display, 250 cd/m ² (FHD), 700:1 (FHD)	
	Security Reader	Embedded PalmSecure™ sensor	
	Battery	Lithium polymer battery 4-cell, 50 Wh, Fast Charge: Up to 80% in 1 hr	
	Storage Selection	PCIe-SSD, 512 GB M.2 NVMe module, SED	
	Power Adapter	20 V / 65 W (3.25 A), 100 V - 240 V, 50 Hz - 60 Hz, 3-pin (grounded) Type-C AC-Adapter slim&light	
	Keyboard	Backlit Keyboard with Numeric Keypad for the 15.6" Option	
	Preload Language	Windows 11 Pro 64 English	
	OS DPK	W11 Pro	
	Publication	Publication-English	
	Ethernet Dongle	RJ45 Extension Connector	
	Package Box Type	Standard Packaging	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	
	Device management (Track and Trace)	Absolute Resilience License (36 Months)	R

5 Note 4 (i7 CPU)

SITA Contract Category	Midrange Business Laptop	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or equivalent	Fujitsu Lifebook E5411/E5511	R
	Typical Function	General Office Use	
	Preload OS	Windows 11 Pro 64	
	Color	Black	
	Graphics	Intel® FHD Graphics (with Single channel memory), Intel® Iris® Xe Graphics (with Dual channel memory)	
	Processor	Intel® Core™ i7-1165G7 processor (4 Cores / 8 Threads)	
	Onboard Memory	16 GB (1 module(s) 16 GB) DDR4, 3,200 MT/s, SO DIMM	
	Wireless LAN	Intel WiFi 6 AX201 - WLAN, BT, SRD cat. 1	
	LAN	10/100/1,000 MBit/s Intel® I219LM	
	Wireless WAN	LTE Sierra Wireless EM7421 (cat.7) - UMTS,LTE	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Absolute BIOS Selection	BIOS Absolute Enabled	
	Display	FHD - Viewing angle: Left/Right 80°, Top 80°, Bottom 80°; Color Gamut: 45% NTSC, response time 25 ms	

Camera	HD Camera with Microphone	
Display Shell	35.6 cm (14.0-inch), FHD, 1,920 x 1,080 pixel, Anti-glare IPS display, 220 cd/m ² (FHD), 700:1 (FHD) Or 39.6 cm (15.6-inch), FHD, 1,920 x 1,080 pixel, Anti-glare IPS display, 250 cd/m ² (FHD), 700:1 (FHD)	
Security Reader	Embedded PalmSecure™ sensor	
Battery	Lithium polymer battery 4-cell, 50 Wh, Fast Charge: Up to 80% in 1 hr	
Storage Selection	PCIe-SSD, 512 GB M.2 NVMe module, SED	
Power Adapter	20 V / 65 W (3.25 A), 100 V - 240 V, 50 Hz - 60 Hz, 3-pin (grounded) Type-C AC-Adapter slim & light	
Keyboard	Backlit Keyboard with Numeric Keypad for the 15.6" Option	
Preload Language	Windows 11 Pro 64 English	
OS DPK	W11 Pro	
Publication	Publication-English	
Ethernet Dongle	RJ45 Extension Connector	
Package Box Type	Standard Packaging	
Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	
Device management (Track and Trace)	Absolute Resilience OEM MSP License (36 Months)	R

6 Note 5 (i5 CPU)

SITA Contract Category	Advanced Business Laptop	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or equivalent	Lenovo Thinkpad T15 Gen 2	R
	Typical Function	General Office and Classroom Use	
	Preload OS	Windows 11 Pro 64	
	Processor	Core i5-1145G7 4 8 2.6GHz 4.4GHz 8MB DDR4-3200 Intel Iris Xe Graphics, VPro	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Color	Black	
	Display	15.6" FHD (1920x1080) None IPS 300 nits Antiglare 16:9 800:1 45% NTSC 170° DC dimming	
	Graphics	Intel Iris Xe Graphics Integrated Shared DirectX® 12	
	Camera	HD 720p, with privacy shutter, fixed focus	
	Total Memory	8GB SO-DIMM DDR4-3200	
	Storage Selection	512GB M.2 2280 SSD	
	Wireless LAN	Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2	
	WWAN Selection	Integrated Mobile Broadband 4G LTE, Quectel EM120R-GL, M.2 card	
	Battery	Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter Max Battery Life[1] MobileMark® 2018: 12 hr JEITA 2.0: 16.8 hr	
	Power Adapter	65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz	
	Keyboard	6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, numeric keypad, LED Backlit	
	OS DPK	W11 Pro	
	Preload Language	Windows 11 Pro 64 English	
Display Shell	15.6" FHD (1920 x 1080) IPS Anti-Glare 250 nits Non-Touch, FHD IR/RGB Hybrid with Microphone, WWAN		
Pointing Device	ClickPad, No NFC		

54

	Ethernet	Wired Ethernet	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	
	Device management (Track and Trace)	Absolute Resilience OEM MSP License (36 Months)	R

7 Note 5 (i7 CPU)

SITA Contract Category	Advanced Business laptop	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or Equivalent	Lenovo Thinkpad T15 Gen 2	
	Typical Function	General Office Use	
	Preload OS	Windows 11 Pro 64	
	Processor	Core i7-11850H 8 16 2.5GHz 4.8GHz 24MB DDR4-3200 Intel UHD Graphics	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Color	Black	
	Display	15.6" FHD (1920x1080) None IPS 300 nits Antiglare 16:9 800:1 45% NTSC 170° DC dimming	
	Graphics	NVIDIA GeForce RTX 3080 Laptop GPU Discrete 16GB GDDR6 90W Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, DirectX 12	
	Camera	HD 720p, with privacy shutter, fixed focus	
	Total Memory	16GB SO-DIMM DDR4-3200	
	Storage Selection	1TB M.2 2280 SSD	
	Wireless LAN	Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2	
	WWAN Selection	Integrated Mobile Broadband 4G LTE, Quectel EM120R-GL, M.2 card	
	Battery	Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter Max Battery Life[1] MobileMark® 2018: 12 hr JEITA 2.0: 16.8 hr	
Power Adapter	65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz		

Provision of ICT Equipment for a period of 3 years

	Keyboard	6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, numeric keypad, LED Backlit	
	Publication	Publication - Polish/Portuguese/English	
	OS DPK	W11 Pro	
	Preload Language	Windows 11 Pro 64 English	
	Display Shell	15.6" FHD (1920 x 1080) IPS Anti-Glare 250 nits Non-Touch, FHD IR/RGB Hybrid with Microphone, ThinkShutter, WWAN	
	Pointing Device	ClickPad, No NFC	
	Ethernet	Wired Ethernet	
	Warranty Service	3 Years, 4 Hour Response, Next Business Day On Site Fix	
	Device management (Track and Trace)	Absolute Resilience OEM MSP License (36 Months)	R

8 Note_WS

SITA Contract Category	Mobile Technical Workstation	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or equivalent	Lenovo ThinkPad P15/P17 Gen2	
	Typical Function	Specialized for GIS, CAD and CAT Schools	
	Preload OS	Windows 11 Pro 64	
	Processor	11th Generation Intel® Core™ i7-11800H Processor (2.30 GHz up to 4.60 GHz)	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Color	Black	
	Display	15.6" FHD (1920 x 1080), IPS, Anti-Glare, Non-touch, 300 nits	
	Graphics	NVIDIA® T1200 4GB GDDR6	
	Fingerprint Reader	Fingerprint Reader	
	Camera	720P HD with Array Microphone	
	Total Memory	16GB DDR4-3200MHz SoDIMM	
	Storage Selection	512 GB SSD M.2 2280 PCIe Gen4 Performance TLC Opal	

56

	Wireless LAN	Intel® Wi-Fi 6E AX210 2x2 AX with vPro™ & Bluetooth® 5.0 or above with vPro®	
	WWAN Selection	LTE Quectel EM160R-GL 4G LTE Cat 16	
	Battery	6 Cell Li-Polymer Internal Battery, 94Wh	
	Power Adapter	170W AC Adapter Slim (3pin)-ZAF	
	Keyboard	Backlit Keyboard Black US International (EURO) with Number Pad	
	Publication	Publication - Polish/Portuguese/English	
	OS DPK	W11 Pro	
	Preload Language	Windows 11 Pro 64 English	
	System Unit	[8-cores] Intel Core i7-11800H	
	Display Shell	15.6" FHD (1920 x 1080) IPS Anti-Glare 250 nits Non-Touch, FHD IR/RGB Hybrid with Microphone, ThinkShutter, WWAN	
	1st Graphic Dongle	HDMI to VGA	
	Ethernet	Wired Ethernet	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	
	Device management (Track and Trace)	Absolute Resilience OEM MSP License (36 Months)	R

57

9 Note_Tab

SITA Contract Category	Convertible/2in 1 Laptop	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or equivalent	Fujitsu Lifebook U9311X	
	Typical Function	Thin and light for Executive use (2 in 1)	
	Preload OS	Windows 11 Pro 64	
	Color	Black	
	Graphics	Intel® UHD Graphics (with Single channel memory), Intel® Iris® Xe Graphics (with Dual channel memory)	
	Processor	Intel® Core™ i7-1165G7 processor (4 Cores / 8 Threads)	
	Onboard Memory	16 GB (1 module(s) 16 GB) DDR4, 3,200 MT/s, SO DIMM	
	Wireless LAN	Intel WiFi 6 AX201 - WLAN, BT, SRD cat. 1	
	LAN	10/100/1,000 MBit/s Intel® I219LM	
	Wireless WAN	Fibocom L850-GL (Cat.9) - UMTS,LTE	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Display	13.3 inch FHD anti-glare touch display with pen input	
	Camera	Front: IR Cam (2 MP) with LED, supporting Windows Hello Rear camera: 5 MP with autofocus on top of C cover	
	Display Shell	33.8 cm (13.3-inch), IPS, FHD, 1,920 x 1,080 pixel, Anti-glare touchscreen, 400 cd/m ² , 1000:1	
	Security Reader	Embedded PalmSecure™ sensor	
	Battery	Lithium polymer battery 4-cell, 50 Wh, Fast Charge: Up to 80% in 1 hr	
	Storage Selection	SSD PCIe, SSD 1TB MS PCIe G3 M.2 FDE, SED	
	Power Adapter	20 V / 65 W (3.25 A), 100 V - 240 V, 50 Hz - 60 Hz, 3-pin (grounded) Type-C AC-Adapter slim&light	
	Keyboard	Backlit Keyboard	
	Preload Language	Windows 11 Pro 64 English	
	OS DPK	W11 Pro	
	Publication	Publication-English	
	Ethernet	RJ45 Extension Connector	
Package Box Type	Standard Packaging		
Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix		
	Device management (Track and Trace)	Absolute Resilience OEM MSP License (36 Months)	R

10 Thin Client

SITA Contract Category	Thin/Zero Client	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or Equivalent	Lenovo ThinkCentre M90n-1 IOT	R
	Typical Function	Thin Client Applications	
	Preload OS	Windows 11 Pro 64	
	Processor	Intel® Core™ i3-8145U/ 8145UE (IOTG) Processor	
	Security Chip Setting	Enabled Discrete TPM2.0	
	Color	Black	
	Total Memory	8GB DDR4	
	Storage Selection	128 GB M.2 PCIe SSD	
	Connectivity-Front Input/Output Ports	2 x RS-232 1 x USB Type-C (USB 3.1 Gen2) 2 x USB 3.1 Gen2 (AMD 1 x USB 3.1/ 1 x USB 2.0) 1 x audio combo	
	Connectivity-REAR INPUT/OUTPUT PORTS	1 x DisplayPort (i3 IOTG 1x HDMI) 1 x USB 3.1 Gen2 Type-C (power-in, display) 1 x USB 3.1 Gen2 (i3 SKU) / USB 2.0 (Celeron SKU) 2 x RJ45 LAN (AMD and Celeron only 1 x RJ45) 1 x DC-in	
	Expansion Slot	2 x M.2 PCIe SSD 2 x M.2 for WiFi/Bluetooth® 1 x M.2 for 4G/LTE reserved 1 x USB I/F	
	Dimensions	179 x 88 x 34.5mm 7.04 x 3.46 x 1.35 inches	
	Weight	750g/1.65lb	
	Power Adapter	65W 88% Adapter	
	External Mechanical Peripherals	Monitor clamp VESA wall mount DIN rail bracket Nano IoT IOBOX	
	Security	HW TPM 2.0 Chassis intrusion switch Smart USB protection Kensington™ lock slot	
	Reliability	MIL-SPEC 810H Yes	

	Manageability	SMART POWER ON Yes, 2 independent displays MULTI-MONITOR Yes MIL-810G SPEC Yes MODERN STANDBY Yes	
	Certifications	Ubuntu® Certified* Red Hat® Certified* Azure IoT Certified AWS IoT Greengrass® Certified ENVIRONMENTAL Energy Star® EPEAT™ TÜV Low Noise	
	Input Devices	Keyboard and Mouse, Touch Screen Optional	
	Ethernet	Wired Ethernet	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	

11 SITA PC3

SITA Contract Category	Midrange PC	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or equivalent	Lenovo ThinkCentre M90n-1	R
	Typical Function	General Office Use	
	Preload OS	Windows 11 Pro 64	
	Preload Language	Windows 11 Pro 64 English	
	Platform	23.8" All In One Non-touch, 90% Power 180W	
	Processor	12th Generation Intel® Core™ i3-12100 Processor (3.30 GHz up to 4.30 GHz)	
	Color	Black	
	Display	23.8" All In One Non-touch, 90% Power 180W	
	Graphics	Integrated Graphics	
	Camera	IR Camera	
	Total Memory	8GB DDR4-3200MHz So-DIMM	
	Third Storage Selection	256 GB SSD M.2 2280 PCIe Gen4 TLC Opal	
	HDMI Port	HDMI In Out Port	

Ethernet	Integrated Ethernet (Permanent, cannot be removed)
Internal Speakers	2x3W Internal Speaker
AIO Stand	Full Function LTPS Stand
Keyboard	USB, Traditional, Black - English (EU)
Mouse	USB Calliope Mouse Black
Chassis Intrusion Switch	Chassis Intrusion Switch
Publication	Publication - Polish/Portuguese/English
Preload Language	Windows 11 Pro 64 English
Ethernet	Wired Ethernet
Modern Standby	Modern Standby Enabled
Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix

12 SITA PC4

SITA Contract Category	Advanced PC	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or Equivalent	Lenovo ThinkCentre M90Q/S/T	R
	Typical Function	Specialized/CAT Schools	
	Preload OS	Windows 11 Pro 64	
	Processor	Core i5-10400 6 12 2.9GHz 4.3GHz 12MB DDR4-2666 Intel UHD Graphics	
	Security Chip	Discrete TPM 2.0	
	Color	Black	
	Graphics	Intel UHD graphics 610 Integrated Shared 1x HDMI®, 1x DP, 1x optional video port (2 nd HDMI / VGA / 2 nd DP / USB-C® / dual DP) 4096x2160@24Hz(onboard HDMI), 4096x2304@60Hz(DP), 840x2160@60Hz(Dual DP, MST mode), 2048x1536@50Hz(VGA), 4096x2304@60Hz(USB-C) DirectX® 12	
	Total Memory	8GB DDR4-3200MHz SoDIMM	
	Storage Selection	512 GB SSD M.2 2280 PCIe	
	HDMI Port	HDMI In Out Port	

Ethernet	Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN
WLAN+ Bluetooth	Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card • Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
Power Supply	65W Adapter 89% Autosensing
Input Devices	Lenovo Calliope Keyboard (USB connector), black Lenovo Calliope Mouse (USB connector), black
Bays	1x 2.5" disk bay Expansion Slots[1] • One PCIe 3.0 x8, low-profile • Three M.2 slots (one for WLAN, two for SSD)
Stand/ Mounting	Vertical stand/VESA mount bracket kit, supports VESA mount 75mm and 100mm
Ports	Front Ports • 1x USB-C 3.2 Gen 1/1x USB 3.2 Gen 2 (Always On and fast charge) • 1x headphone / microphone combo jack (3.5mm) Rear Ports[2] • 2x USB 3.2 Gen 1 • 2x USB 3.2 Gen 2 • 1x HDMI • 1x DisplayPort™ • 1x Ethernet (RJ-45)
Internal Speakers	Audio Chip High Definition (HD) Audio, Realtek® ALC233VB codec Speakers Single speaker, 1.5W x1
Chassis Intrusion Switch	Chassis Intrusion Switch
Publication	Publication - Polish/Portuguese/English
Preload Language	Windows 11 Pro 64 English
Ethernet	Wired Ethernet
Manageability	Intel vPro with Intel AMT 14.0
Certifications	Green Certifications • (Optional) EPEAT™ Gold • (Optional) EPEAT Silver • ENERGY STAR® 8.0 • ErP Lot 3

62

		<ul style="list-style-type: none"> • TCO Certified 8.0 • RoHS compliant 	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	

13 PC_AIO1

SITA Contract Category	Entry-level All-in-One PC	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or Equivalent	Lenovo ThinkCentre M70A	R
	Typical Function	General Office Use/Classroom/Call Centre	
	Preload OS	Windows 11 Pro 64	
	Preload Language	Windows 11 Pro 64 English	
	Platform	21.5" All In One Non-touch	
	Processor	Intel® Celeron® G6900 Processor (3.40 GHz)	
	Color	Black	
	Graphics	Integrated Graphics	
	HDMI Port	HDMI In Out Port	
	Camera	HD Camera and Microphone	
	Total Memory	4 GB DDR4-3200MHz (SODIMM)	
	Third Storage Selection	256 GB SSD M.2 2280 PCIe Gen4 TLC Opal	
	HDMI Port	HDMI In Out Port	
	Ethernet	Integrated Ethernet (Permanent, cannot be removed)	
	Default USB Port	2 Side USB Ports, 4 Rear USB Ports	
	Internal Speakers	2x2W Internal Speaker	
	AIO Stand	Full Function LTPS Stand	
	Keyboard	USB, Traditional, Black - English (EU)	
	Mouse	USB Calliope Mouse Black	
	Chassis Intrusion Switch	Chassis Intrusion Switch	
Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix		

14 PC_AIO2

SITA Contract Category	Mid Range All-in-One PC	Minimum Technical Specification or an Equivalent	Unit Price Year 1
RFB740	Preferred Product or Equivalent	Lenovo ThinkCentre M90A	
	Typical Function	Specialized	
	Preload OS	Windows 11 Pro 64	
	Preload Language	Windows 11 Pro 64 English	
	Platform	23.8" All In One Non-touch, 90% Power 180W	
	Processor	12th Generation Intel® Core™ i3-12100 Processor (3.30 GHz up to 4.30 GHz)	
	Color	Black	
	Graphics	Integrated Graphics	
	HDMI Port	HDMI In Out Port	
	Camera	HD Camera and Microphone	
	Total Memory	8GB DDR4-3200MHz So-DIMM	
	Third Storage Selection	512 GB SSD M.2 2280 PCIe Gen4 TLC Opal	
	HDMI Port	HDMI In Out Port	
	Ethernet	Integrated Ethernet (Permanent, cannot be removed)	
	Default USB Port	2 Side USB Ports, 4 Rear USB Ports	
	Internal Speakers	2x2W Internal Speaker	
	AIO Stand	Full Function LTPS Stand	
	Keyboard	USB, Traditional, Black - English (EU)	
	Mouse	USB Calliope Mouse Black	
	Chassis Intrusion Switch	Chassis Intrusion Switch	
Publication	Publication - French/Arabic/English		
Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix		

64

15 SITA Router_A1

SITA Contract Category	Router	Minimum Technical Specification or an Equivalent	Unit Price Year 1
	Preferred Product or Equivalent	Huawei NetEngine AR617VW-LTE4EA / AR617VW-LTE4	R
	Typical Function	Networking	
	Forwarding Performance (LAN -> WAN + WAN -> LAN, NAT + ACL + QoS, IMIX)	300Mbps	
	IPsec performance (IMIX)	200Mbps	
	Fixed WAN ports	1 * GE combo, 1 * VDSL 35B, 1 * LTE	
	Fixed LAN ports	4* GE RJ45 (can be configured as WAN)	
	Voice	2 * FXS	
	Wi-Fi	Dual-band (2.4 GHz and 5 GHz), 2x2 MIMO, 802.11b/g/n/ac	
	Auxiliary or console port	1 x RJ45 console port	
	USB port	1*USB	
	Memory	1GB	
	Flash memory	1GB	
	Rated input voltage range (AC)	100 V to 240 V	
	Maximum input voltage range (AC)	50 Hz/60 Hz	
	Maximum output current (AC)	2A	
	Maximum output power (AC)	24W	
	Minimum power consumption	8W	
	Maximum power consumption	17W	
	Basic function	DHCP server/client/relay, PPPoE server/client, PPPoA server/client, PPPoEoA server/client, NAT, and sub-interface management	
	LAN	IEEE 802.1P, IEEE 802.1Q, IEEE 802.3, VLAN management, VLAN aggregation, MAC management, STP/RSTP	
	Voice	RTP, SIP, SIP AG, IP PBX/TDM PBX, VoIP, SBC (AR617VW/AR617VW-LTE4EA/AR617VW-LTE4 support)	
	3G/LTE	AP management, WLAN QoS (WMM), WLAN security (WEP/WPA/WPA2/key management), WLAN radio management (802.11b/g/n/ac), and WLAN user management	

	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	
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16 SITA Switch_AL1

SITA Contract Category	Networking	Minimum Technical Specification or an Equivalent	Unit Price Year 1
	Preferred Product or Equivalent	Huawei S5700-24TP-SI-AC	R
	Typical Function	Networking	
	Fixed port	24x10/100/1000Base-T ports, 4 of which are dual-purpose 10/100/1000 or SFP	
	Extended slot	The S5700TP provides one extended slot for a stack card The S5700-28C and S5700-52C provide two extended slots, one for an uplink subcard and the other for a stack card.	
	MAC address table	IEEE 802.1d compliance MAC address learning and aging Static, dynamic, and blackhole MAC address entries Packet filtering based on source MAC addresses 16K MAC address entries	
	VLAN	4K VLANs Guest VLAN and voice VLAN GVRP MUX VLAN VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports 1:1 and N:1 VLAN Mapping	
	Reliability	RRPP ring topology and RRPP multi-instance Smart Link tree topology and Smart Link multi-instance, providing the millisecond-level protection switchover SEP ERPS(G.8032) STP(IEEE 802.1d), RSTP(IEEE 802.1w), and MSTP(IEEE 802.1s) BPDU protection, root protection, and loop protection	
	IP routing	Static routing, RIPv1, RIPv2, RIPv6, ECMP	
	IPv6 features	Neighbor Discovery (ND) Path MTU (PMTU) IPv6 ping, IPv6 traceroute, and IPv6 Telnet ACLs based on the source IPv6 address, destination IPv6 address, Layer 4 ports, or protocol	

		<p>type</p> <p>MLD v1/v2 snooping</p> <p>6to4 tunnel, ISATAP tunnel, and manually configured tunnel</p>	
	Multicast	<p>IGMP v1/v2/v3 snooping and IGMP fast leave</p> <p>Multicast forwarding in a VLAN and multicast replication between VLANs</p> <p>Multicast load balancing among member ports of a trunk</p> <p>Controllable multicast</p> <p>Port-based multicast traffic statistics</p>	
	QoS/ACL	<p>Rate limiting on packets sent and received by an interface</p> <p>Packet redirection</p> <p>Port-based traffic policing and two-rate three-color CAR</p> <p>Eight queues on each port</p> <p>WRR, DRR, SP, WRR+SP, and DRR+SP queue scheduling algorithms</p> <p>Re-marking of the 802.1p priority and DSCP priority</p> <p>Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type, and VLAN ID</p> <p>Rate limiting in each queue and traffic shaping on ports</p>	
	Security	<p>User privilege management and password protection</p> <p>DoS attack defense, ARP attack defense, and ICMP attack defense</p> <p>Binding of the IP address, MAC address, interface, and VLAN</p> <p>Port isolation, port security, and sticky MAC</p> <p>Blackhole MAC address entries</p> <p>Limit on the number of learned MAC addresses</p> <p>802.1x authentication and limit on the number of users on an interface</p> <p>AAA authentication, RADIUS authentication, HWTACACS+ authentication, and NAC</p> <p>SSH v2.0</p> <p>Hypertext Transfer Protocol Secure (HTTPS)</p> <p>CPU defense</p> <p>Blacklist and whitelist</p> <p>802.1x authentication, MAC address authentication, and combined authentication on a per port basis</p> <p>Portal authentication on a per VLANIF interface basis</p>	
	Management and maintenance	<p>Stacking (not supported by S5700-26X-SI-12S-AC)</p> <p>MAC Forced Forwarding (MFF)</p> <p>Virtual cable test</p> <p>SNMP v1/v2c/v3</p>	

67

		RMON Web-based NMS System logs and alarms of different levels	
	Interoperability	Supports VBST (Compatible with PVST/PVST+/RPVST) Supports LNP (Similar to DTP) Supports VCMP (Similar to VTP)	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	

17 SITA W_AP_OD

SITA Contract Category	Networking	Minimum Technical Specification or an Equivalent	Unit Price Year 1
	Preferred Product or Equivalent	Huawei AirEngine 6760R-51	R
	Typical Function	Networking	
	Interface type	1 x 5GE electrical, 1 x GE electrical, and 1 x 10GE SFP+ NOTE 5GE electrical port can also support 100M/1000M/2.5GE rates. 10G optical port can also support 10GE/GE/GPON optical module. GE electrical port can also support 10M/100M/1000M rates.	
	Bluetooth	BLE 5.0	
	LED indicator	Indicates the power-on, startup, running, alarm, and fault states of the system.	
	Power input	PoE power supply: In compliance with 802.3at/bt.	
	PoE power supply mode	2.4GHz 5GHz	
	802.3bt (PoE++)	4x4 Maximum power consumption at 35.3W	
	802.3at (PoE+)	2x2 Maximum power consumption at <25.5W	
	Operating temperature	-40°C to +65°C	
	Dustproof and waterproof grade	IP68	
	Antenna type	AirEngine 6760R-51: Built-in smart antennas NOTE Horizontal beamwidth: 60° for 2.4 GHz and 40° for 5 GHz Vertical beamwidth: 60° for 2.4 GHz and 20° for 5 GHz	
	Antenna gain	AirEngine 6760R-51 2.4GHz: 10dBi	

Provision of ICT Equipment for a period of 3 years

68

		5GHz: 11dBi	
	Maximum number of SSIDs for each radio	≤ 16	
	Maximum number of users	≤ 1024 (512/Radio) NOTE The actual number of users varies according to the environment	
	Maximum transmit power	2.4G: 30dBm (combined power) 5G: 30dBm (combined power)	
	Security standards	802.11i, Wi-Fi Protected Access 2(WPA2), WPA, WPA2, WPA2-Enterprise, WPA2-PSKWPA3*, WAPI* 802.1X Advanced Encryption Standards(AES), Temporal Key Integrity Protocol(TKIP), WEP, Open EAP Type(s)	
	RoHS	Directive 2002/95/EC & 2011/65/EU	
	Reach	Regulation 1907/2006/EC	
	WEEE	Directive 2002/96/EC & 2012/19/EU	
	Power increment	1 dBm	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	

18 SITA Switch_AL1

SITA Contract Category	Enterprise-Class Stackable Access Switch	Minimum Technical Specification or an Equivalent	Unit Price Year 1
	Preferred Product or Equivalent	Ruckus ICX 7150	R
	Typical Function	School and Medium Enterprise networking	
	ICX7150-24P-4X1G	ICX 7150 Switch, 24x 10/100/1000 PoE+ ports, 2x 1G RJ45 uplink-ports, 4x 1G SFP uplink ports upgradable to up to 4x 10G SFP+ with license, 370W PoE budget, basic L3 (static routing and RIP)	
	ICX7150-SVL-RMT-3	WatchDog REMOTE SUPPORT, ICX7150-24, 24P ,48, 48P, 48PF, C12P, C10ZP & -24F	
	L09-0001-SGCX	Switch management license for SZ-100/vSZ 5.X/SZ300, 1 Ruckus ICX switch. Order this when you intend to run software version from 5.0 onwards.	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	

Provision of ICT Equipment for a period of 3 years

19 SITA W_AP1

SITA Contract Category	Enterprise-Class Indoor Access Point	Minimum Technical Specification or an Equivalent	Unit Price Year 1
	Preferred Product or equivalent	RUCKUS R350 Indoor Access Point	R
	Typical Function	School and Medium Enterprise networking	
	901-R350-WW02	Ruckus R350 dual-band 802.11abgn/ac/ax Wireless Access Points, 2x2:2 streams (2.4GHz/5GHz) OFDMA, MU-MIMO, BeamFlex+, 802.3af PoE support. Does not include power adapter or PoE injector. Includes Limited Lifetime Warranty	
	902-0120-0000	Multipurpose mounting bracket for R-Series indoor APs. Supports mounting to hard wall, ceiling, pole or truss (Secure Mounting Bracket for Ruckus R720, R710, R500, R510, R610, R600, R310, R320, M510 and R700 without pad-lock support.)	
	S02-0001-3LSG	Associate Partner Support, Per SZ/(v)SZ AP, 3 YR	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	

20 SITA W_AP3

SITA Contract Category	Enterprise-Class Indoor Access Point	Minimum Technical Specification or an Equivalent	Unit Price Year 1
	Preferred Product or Equivalent	RUCKUS R550 Indoor Access Point	R
	Typical Function	School and Medium Enterprise networking	
	901-R550-WW00	Ruckus R550 dual-band 802.11abgn/ac/ax Wireless Access Point with Multi-Gigabit Ethernet backhaul and onboard BLE/Zigbee,, 2x2:2 streams (2.4GHz/5GHz) OFDMA, MU-MIMO, BeamFlex+, dual ports, 802.3at PoE support. Does not include power adapter or PoE injector	

70

	902-0120-0000	Secure Mounting Bracket for Ruckus R720, R710. Mounts to hard wall/ceiling, pole, and truss. Also fits R500, R510, R610, R600, R310, R320, M510 and R700 without pad-lock support.	
	L09-VSCG-WW00	Virtual SmartZone 3.0 or newer software virtual appliance, 1 Instance, includes 1 AP license.	
	S02-VSCG-1L00	Associate Partner Support, - VSZ-RTU, 3 YR	
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix	

21 Accessories

SITA Contract Category		Minimum Technical Specification or an Equivalent	Quantity	Unit Price Year 1
	Bag	Simple Backpack		R
	Bag	Simple Topload Case 15.6		R
	Bag	Simple Trolley		R
	Bag	TopLoad Case 13.3 inch		R
	Lock	Combination Cable lock		R
	Docking Station 1	USB-C Dock Gen 2		R
	Docking Station 2	Thunderbolt Gen 2 Dock		R
	Keyboard and Mouse	Wireless Keyboard and Mouse		R
	Monitor 1-SITA MON_DT1			R
	Preferred Product or Equivalent	ThinkVision E20		
	Typical Use	Larger display for work		
	Monitor 1 Specification	Screen Size 19.5inches, Brightness 250 cd/m ² , Aspect Ratio 16:10, Contrast Ratio 1000:1, Connection Type 1 x HDMI 1.4, 1 x VGA, Backlight WLED Response Time 4 ms (Extreme mode) / 6 ms (Typical mode), Panel Type - In-Plane Switching, Viewing Angle- 178 / 178 degrees, Stand -5° / 22°, Power Requirement 100 - 240 VAC, 50 - 60 Hz, Energy Star 8.0, Includes HDMI cable Color Coverage 72% NTSC Color Support 16.7 Million, Eye Caring Head only Dimentions, 44.5 x 308.0 x 456.0mm / 1.75 x 12.13 x 17.95 inches, Kensington Lock, Power Consumption 12W - 14W Max, Maximum Resolution 1440 x 900, Brightness 250 cd/m ² , Height 37.2 cm, Depth 18.8 cm, EPEAT		

71

	Warranty .	3 Years, 4 Hour Response, Next Business Day On Site Fix		R
	Monitor 1-SITA MON_DT2			
	Preferred Product or Equivalent	Lenovo ThinkVision T24		R
	Typical Use	Larger display for work		
	Monitor Specification	Screen Size 23.8 inches, 1920 x 1080, Panel Type3-side, NearEdgeless, In-Plane Switching, WLED, Brightness-250 cd/m², Aspect Ratio-16:9, Refresh Rate-60 Hz, Contrast Ratio-1000:1, Dynamic Contrast Ratio-3M:1, Viewing Angle (H x V)178°/178°, Color Gamut72% NTSC (CIE 1931), Color Support16.7 M, Anti-Glare, Connectivity1 x HDMI 1.4, 1 x DP 1.2, 1 x VGA, 1 x Audio out (3.5mm), 1 x USB 3.2 Gen1, 4 x USB 3.2 Gen1 (1 x BC 1.2, Multi-Media, Tilt Angle (front/back)-5° / 35°Swivel Angle (left/right)+45° / -45°, Lift (max. range)150 mm Pivot-90° / 90°, VESA Mount Capability 100 x 100mm, Kensington Lock Slot, ThinkCentreM Series Tiny/Nano monitor clamp II and Tiny VESA mount II, ENERGY STAR® Rating8.0, TCO Edge2.0, EPEAT™Gold		
	Warranty	3 Years, 4 Hour Response, Next Business Day On Site Fix		R

RFB 2003

22 SITA Server 1

1. RFB2003: SRV1 - 1U RACK SINGLE SOCKET SERVER			
	Minimum Technical Specification or an Equivalent	Quantity	Unit Price Year 1
Preferred Product or equivalent	Fujitsu Server PRIMERGY RX1330 M4		R
Typical Function	School or Branch Office		

		Rack based server 19" (1U), BU without processor and RAM, RMK optional; systemboard D3929 based on Intel C256 PCH, Socket for Pentium, Xeon Processor and 4x sockets DDR4 -3200 UDIMM ECC; iRMC S6 onboard server management incl. graphics controller and 10/100/1000MBit Service LAN port; 2x 1 Gbit Ethernet LAN and SATA controller onboard (for 4xHDs, 2xM.2, ODD); 4 drive bays for hot plug 3.5" SATA or SAS HDs; ServerView Suite DVD Pack incl. Installation SW, Management SW and Serviceability SW option		
PROCESSOR	PYBCP63E3	Intel Xeon E-2336 6C/12T 2.90 GHz	1	
RAM	PYBME32UG2	32GB (1x32GB) 2Rx8 DDR4-3200 U ECC	2	
Storage	PYBCH2T7G4	HD SAS 12G 2TB 7.2K HOT PL 3.5' BC	4	
RAID Controller	PYBSC3MA2L	PSAS CP 2100-8i LP	1	
Rail	S26361-F2735-E422	RMK F1 Slimline, Slide-In Rail, QRL	1	
Mounting	S26361-F4530-E10	Mounting of RMK in symmetrical racks	1	
Documentation Kit	S26361-F1452-E100	region kit APAC/EMEA/India	1	
PSU	PYBPU501	Modular PSU 500W platinum hp	2	
Power Cable	T26139-Y1968-E180	Cable powercord rack, 1.8m, black	2	
Warranty 3Yr		3Yr Next Business Day Onsite Fix, 24x7 4Hr Response + Keep your drive	1	
Warranty 5Yr Option		5Yr Next Business Day Onsite Fix, 24x7 4Hr Response + Keep your drive	1	

Installation		Onsite Installation	1	R
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23 SITA Server 2

SITA RFB2003: SERVER 2 - 1U DUAL SOCKET RACK MOUNT SERVERS				
		Minimum Technical Specification or an Equivalent	Quantity	Unit Price Year 1
Preferred Product or equivalent		Fujitsu PRIMERGY RX2530 M6		
Typical Function		Enterprise Server		
Base Unit		PRIMERGY RX2530 M6, Rack Mount Server, Dual Power Supply, Hot Plug, Dual Processor, Motherboard type : D3890, Chipset : Intel® C621A,	1	R
Storage drive architecture selection (x1)		8x 2.5-inch SAS/SATA	1	R
		4x 3.5-inch SAS/SATA	1	R
		32x EDSFF	1	R
		10x 2.5-inch SAS/SATA/PCIe	1	R
Warranty 3Yr		3Yr Next Business Day Onsite Fix, 24x7 4Hr Response + Keep your drive	1	R
Warranty 5Yr Option		5Yr Next Business Day Onsite Fix, 24x7 4Hr Response + Keep your drive	1	R
Installation		Onsite Installation	1	R

24 SITA Server 3

SITA RFB2003: SERVER 3 - 2U DUAL SOCKET RACK MOUNT SERVERS				
		Minimum Technical Specification or an Equivalent	Quantity	Unit Price Year 1
Preferred Product or equivalent		Fujitsu PRIMERGY RX2540 M6		
Typical Function		Datacentre Operations		
Base Unit		PRIMERGY RX2540 M6, Rack Mount Server, Dual Power Supply, Hot Plug, Dual Processor, Motherboard type : D3891, Chipset : Intel® C621A,	1	R
Storage drive architecture selection (x1)		16x 2.5-inch SAS/SATA	1	R
		10x 3.5-inch SAS/SATA	1	R
		64x EDSFF	1	R
		12x 3.5-inch SAS/SATA	1	R

25 Server 2 and Server 3 Components

SITA RFB2003: SERVER 2 AND SERVER 3 COMPONENTS			
	Minimum Technical Specification or an Equivalent	Quantity	Unit Price Year 1
PROCESSOR OPTIONS			
Intel® Xeon® Gold Processor	1 - 2 x Intel® Xeon® Silver 43xx processor / Intel® Xeon® Gold 53xx processor / Intel® Xeon® Gold 63xx processor / Intel® Xeon® Platinum 83xx processor	1	R
	Intel® Xeon® Gold 6334 (8 Cores, 3.6 GHz, TLC: 18 MB, Turbo: 3.60 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 165 W, AVX Base 3.30 GHz, AVX Turbo 3.60 GHz)	1	R
	Intel® Xeon® Silver 4310 (12C, 2.10 GHz, TLC: 18 MB, Turbo: 2.70 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 120 W, AVX Base 2.0 GHz, AVX Turbo 2.60 GHz)	1	R
	Intel® Xeon® Silver 4314 (16C, 2.40 GHz, TLC: 24 MB, Turbo: 2.90 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 135 W, AVX Base 2.10 GHz, AVX Turbo 2.90 GHz)	1	R
	Intel® Xeon® Silver 4316 (20C, 2.30 GHz, TLC: 30 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,667 MHz, 150 W, AVX Base 2.0 GHz, AVX Turbo 2.80 GHz)	1	R
	Intel® Xeon® Gold 5315Y (8C, 3.20 GHz, TLC: 12 MB, Turbo: 3.50 GHz, 11.2 GT/s, Mem bus: 2,933 MHz, 140 W, AVX Base 3.0 GHz, AVX Turbo 3.40 GHz)	1	R
	Intel® Xeon® Gold 5317 (12C, 3.0 GHz, TLC: 18 MB, Turbo: 3.40 GHz, 11.2 GT/s, Mem bus: 2,933 MHz, 150 W, AVX Base 2.70 GHz, AVX Turbo 3.40 GHz)	1	R
	Intel® Xeon® Gold 5318S (24C, 2.1 GHz, TLC: 36 MB, Turbo: 2.60 GHz, 11.2 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)	1	R
	Intel® Xeon® Gold 5318Y (24C, 2.10 GHz, TLC: 36 MB, Turbo: 2.60 GHz, 11.2 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)	1	R
	Intel® Xeon® Gold 5320 (26C, 2.20 GHz, TLC: 39 MB, Turbo: 2.80 GHz, 11.2 GT/s, Mem bus: 2,933 MHz, 185 W, AVX Base 1.90 GHz, AVX Turbo 2.80 GHz)	1	R
	Intel® Xeon® Gold 6312U (24C, 2.4 GHz, TLC: 36 MB, Turbo: 3.10 GHz, 11.2 GT/s, Mem bus: 2,933 MHz, 185 W, AVX)	1	R

		Base 2.10 GHz, AVX Turbo 3.00 GHz)		
		Intel® Xeon® Gold 6314U (32 C, 2.3 GHz, TLC: 48 MB, Turbo: 2.90 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 2.0 GHz, AVX Turbo 2.80 GHz)	1	R
		Intel® Xeon® Gold 6326 (16C, 2.9 GHz, TLC: 24 MB, Turbo: 3.30 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 185 W, AVX Base 2.50 GHz, AVX Turbo 3.30 GHz)	1	R
		Intel® Xeon® Gold 6330 (28C, 2.0 GHz, TLC: 42 MB, Turbo: 2.60 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 1.70 GHz, AVX Turbo 2.60 GHz)	1	R
		Intel® Xeon® Gold 6330N (28C, 2.20 GHz, TLC: 42 MB, Turbo: 2.60 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 165 W, AVX Base 1.50 GHz, AVX Turbo 2.60 GHz)	1	R
		Intel® Xeon® Gold 6334 (8 Cores, 3.6 GHz, TLC: 18 MB, Turbo: 3.60 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 165 W, AVX Base 3.30 GHz, AVX Turbo 3.60 GHz)	1	R
		Intel® Xeon® Gold 6336Y (24C, 2.4 GHz, TLC: 36 MB, Turbo: 3.00 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 185 W, AVX Base 2.10 GHz, AVX Turbo 2.90 GHz)	1	R
		Intel® Xeon® Gold 6338 (32 C, 2.0 GHz, TLC: 48 MB, Turbo: 2.60 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 1.80 GHz, AVX Turbo 2.60 GHz)	1	R
		Intel® Xeon® Gold 6338T (24C, 2.1 GHz, TLC: 36 MB, Turbo: 2.70 GHz, 11.2 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.80 GHz, AVX Turbo 2.60 GHz)	1	R
		Intel® Xeon® Gold 6342 (24C, 2.8 GHz, TLC: 36 MB, Turbo: 3.30 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 230 W, AVX Base 2.50 GHz, AVX Turbo 3.30 GHz)	1	R
		Intel® Xeon® Gold 6346 (16C, 3.10 GHz, TLC: 36 MB, Turbo: 3.60 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 2.80 GHz, AVX Turbo 3.50 GHz)	1	R
		Intel® Xeon® Gold 6348 (28C, 2.60 GHz, TLC: 42 MB, Turbo: 3.40 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 235 W, AVX Base 2.40 GHz, AVX Turbo 3.40 GHz)	1	R
		Intel® Xeon® Gold 6354 (18C, 3.0 GHz, TLC: 39 MB, Turbo: 3.60 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 2.70 GHz, AVX Turbo 3.30 GHz)	1	R
Intel® Xeon® Platinum Processor		Intel® Xeon® Platinum 8352M (32 C, 2.30 GHz, TLC: 48 MB, Turbo: 2.80 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 185 W, AVX Base 1.80 GHz, AVX Turbo 2.80 GHz)	1	R

		Intel® Xeon® Platinum 8352V (36C, 2.10 GHz, TLC: 54 MB, Turbo: 2.50 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 195 W, AVX Base 1.70 GHz, AVX Turbo 2.50 GHz)	1	R
		Intel® Xeon® Platinum 8352Y (32 C, 2.20 GHz, TLC: 48 MB, Turbo: 2.80 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 205 W, AVX Base 1.90 GHz, AVX Turbo 2.70 GHz)	1	R
		Intel® Xeon® Platinum 8358 (32 C, 2.60 GHz, TLC: 48 MB, Turbo: 3.30 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 250 W, AVX Base 2.30 GHz, AVX Turbo 3.30 GHz)	1	R
		Intel® Xeon® Platinum 8358P (32 C, 2.60 GHz, TLC: 48 MB, Turbo: 3.20 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 240 W, AVX Base 2.20 GHz, AVX Turbo 3.20 GHz)	1	R
		Intel® Xeon® Platinum 8360Y (36C, 2.40 GHz, TLC: 54 MB, Turbo: 3.10 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 250 W, AVX Base 2.10 GHz, AVX Turbo 3.10 GHz)	1	R
		Intel® Xeon® Platinum 8362 (32 C, 2.80 GHz, TLC: 48 MB, Turbo: 3.50 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 265 W, AVX Base 2.50 GHz, AVX Turbo 3.40 GHz)	1	R
		Intel® Xeon® Platinum 8368 (38C, 2.40 GHz, TLC: 57 MB, Turbo: 3.20 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 270 W, AVX Base 2.20 GHz, AVX Turbo 3.10 GHz)	1	R
		Intel® Xeon® Platinum 8380 (40C, 2.30 GHz, TLC: 60 MB, Turbo: 3.00 GHz, 11.2 GT/s, Mem bus: 3,200 MHz, 270 W, AVX Base 2.10 GHz, AVX Turbo 2.90 GHz)	1	R
Processor notes		no mix of different processor types		
MEMORY				
Memory slots		32 (16 DIMMs per CPU, 8 channels with 2 slots per channel)	1	
Memory slot type		DIMM (DDR4 RDIMM, LRDIMM and Intel® Optane™ PMem)	1	
Memory capacity (min. - max.)		8 GB - 12 TB	1	
Memory protection		ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring support	1	
		16GB (1x16GB) 2Rx8 DDR4-3200 R ECC	1	R
		32GB (1x32GB) 2Rx4 DDR4-3200 R ECC	1	R
		64GB (1x64GB) 2Rx4 DDR4-3200 R ECC	1	R
Memory notes		Max. 8 slots populated with PMem modules per CPU, please see relevant system configurator for details.	1	

Non-volatile memory modules		1024 GB (2 module(s) 512 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 4Rx4	1	R
		1024 GB (4 module(s) 256 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 2Rx4	1	R
		1024 GB (8 module(s) 128 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 1Rx4	1	R
		128 GB (1 module(s) 128 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 1Rx4	1	R
		2048 GB (4 module(s) 512 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 4Rx4	1	R
		2048 GB (8 module(s) 256 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 2Rx4	1	R
		256 GB (1 module(s) 256 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 2Rx4	1	R
		256 GB (2 module(s) 128 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 1Rx4	1	R
		4096 GB (8 module(s) 512 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 4Rx4	1	R
		512 GB (1 module(s) 512 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 4Rx4	1	R
		512 GB (2 module(s) 256 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 2Rx4	1	R
		512 GB (4 module(s) 128 GB) DDR-T, registered, ECC, 3,200 MT/s, NVM, DCPMM, 1Rx4	1	R
Standard memory modules		8 GB (1 module(s) 8 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx8	1	R
		128 GB (1 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, LRDIMM, 4Rx4	1	R
		128 GB (1 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4	1	R
		16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx8	1	R
		16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4	1	R
		256 GB (1 module(s) 256 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 8Rx4	1	R

		32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, LRDIMM, 4Rx4	1	R
		64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
Standard memory modules (for use in combination with non-volatile memory modules)		1024 GB (8 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4	1	R
		1024 GB (4 module(s) 256 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 8Rx4	1	R
		128 GB (8 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4	1	R
		128 GB (4 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		192 GB (6 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		192 GB (12 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4	1	R
		2048 GB (8 module(s) 256 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 8Rx4	1	R
		256 GB (8 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		256 GB (4 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		384 GB (12 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		384 GB (6 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		512 GB (4 module(s) 128 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 4Rx4	1	R
		512 GB (8 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		64 GB (4 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4	1	R

		768 GB (12 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4	1	R
		96 GB (6 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4	1	R
Interfaces				
SATA Controller		Intel® C621A, 1x SATA channel for ODD, 2x SATA channel for M.2 and 8x SATA channel for HDD/SSD	1	R
LAN Controller(Dynamic LoM via OCP slot; OCPv3 compliant All supported features are described in relevant system configurator.		Optional OCP adaptors: 4 x 10 Gbit/s SFP+	1	R
		4 x 1 Gbit/s Ethernet (RJ45)	1	R
		2 x 10 Gbit/s Ethernet (RJ45)	1	R
		4 x 10 Gbit/s Ethernet (RJ45)	1	R
		2 x 10 Gbit/s SFP+	1	R
		2 x 25 Gbit/s QSFP28	1	R
		2x 100 Gbit/s QSFP28	1	R
Trusted Platform Module (TPM)		Infineon / TPM 2.0 module; TCG compliant (option)	1	R
Slots				
PCI-Express 4.0 x8		3 x Low profile (2nd processor required for slot 4)	1	R
PCI-Express 4.0 x16		4 x Low profile (2nd processor required for slot 6 and 8)	1	R
Power Supply				
		500W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz	1	R
		900W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz	1	R
		900W hot-plug, 96% (Titanium efficiency), 200-240V, 50 / 60Hz	1	R
		1600W hot-plug, 94% (Platinum efficiency), 100-240V, 50 / 60Hz; 100V range: 1030W	1	R
		1300W hot-plug, 94% (equivalent to Platinum efficiency) –48V DC	1	R
		1600W hot plug, 94% (equivalent to Platinum efficiency) 380V DC	1	R

Backup Drives		LTO7HH Ultrium, 2,500 GB, 300 MB/s, half height, SAS 6Gb/s	1	R
		LTO7HH Ultrium, 300 MB/s, half height	1	R
		LTO7HH Ultrium, 300 MB/s, half height, SAS 6Gb/s	1	R
		RDX Drive, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 3.0		R
Hard Disk Drives				
		HDD SATA, 6 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 8 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 4 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 3.5-inch, business critical	1	R
		HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical	1	R
		HDD SAS, 12 Gb/s, 900 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 900 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512n, hot-plug, 3.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 600 GB , 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED	1	R
		HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, hot-plug, 3.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 3.5-inch, enterprise	1	R

	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise	1	R
	HDD SAS, 12 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 10 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 3.5-inch, enterprise	1	R
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise	1	R
	HDD SAS, 12 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 18 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 16 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 14 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 12 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 10 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, enterprise, SED	1	R
	HDD SAS, 12 Gb/s, 6 TB, 7,200 rpm, 512e, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 4 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical	1	R
	HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 3.5-inch, enterprise	1	R
	HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED	1	R

82

		HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, hot-plug, 3.5-inch, business critical	1	R
		HDD SAS, 12 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical	1	R
		HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 3.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise, SED	1	R
		HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 3.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 3.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise	1	R
		HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise, SED	1	R
		HDD SAS, 12 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical	1	R
		HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 3.5-inch, enterprise	1	R
Solid-State-Drive		SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R

83

		SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise,	1	R

		1.0 DWPD (Drive Writes Per Day for 5 years)		
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.6 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)	1	R

		SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (drive writes per day for 5 years)	1	R
		SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 0.9 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD M.2 SATA, 6 Gb/s, 480 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD M.2 SATA, 6 Gb/s, 240 GB, non hot plug, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 3.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 800 TB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	1	R

		SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years),SED	1	R
		SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 800 GB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 800 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 3.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years),SED	1	R
		SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 3.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	1	R
		SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)	1	R
PCIe SSD & SATA DOM SSD		PCIe-SSD, 4 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 0.46 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 960 GB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 800 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 750 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 30 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 400 GB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R

		PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD, 4 TB, Read-Intensive, hot-plug, E1.S, Flash drive, 0.46 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 4 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 2 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, Flash drive, 100 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PCIe-SSD SFF, 1 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)	1	R
		PSAS CP 2100-8i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8	1	R
SCSI / SAS Controller		Broadcom® PSAS CP503i LP SAS Ctrl. 12 Gbit/s 8 ports int. PCIe 3.0 x8	1	R
		Broadcom® PSAS CP500e LP SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8	1	R
		Broadcom® PSAS CP500e FH SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8	1	R
RAID Controller		Fujitsu PRAID EP680i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 16 GT/s, 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3916	1	R
		Fujitsu PRAID EP680e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516	1	R

		Fujitsu PRAID EP680e FH, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516	1	R
		Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516	1	R
		Fujitsu PRAID EP540i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516	1	R
		Fujitsu PRAID EP540e LP, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516	1	R
		Fujitsu PRAID EP540e FH, RAID 5/6 Ctrl., SAS 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516	1	R
		Fujitsu PRAID EP520i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3516	1	R
		Broadcom® PRAID CP500i LP, RAID Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, No FBU support	1	R
Fibre Channel controller		Fibre Channel Host Bus Adapter 1 x Qlogic QLE2770-FJ-BK LC-style	1	R
		Fibre Channel Host Bus Adapter 2 x Qlogic QLE2772-FJ-BK LC-style	1	R
		Fibre Channel Host Bus Adapter 1 x 32 Gbit/s Emulex LPE35000-M2-F MMF LC-style	1	R
		Fibre Channel Host Bus Adapter 2 x 32 Gbit/s Emulex LPE35002-M2-F MMF LC-style	1	R
		Fibre Channel Host Bus Adapter 1 x Emulex LPE36000-M64-F MMF LC-style	1	R
		Fibre Channel Host Bus Adapter 2 x Emulex LPE36002-M64-F MMF LC-style	1	R
		Fibre Channel Host Bus Adapter 2 x Emulex LPE36000-M64-F MMF LC-style	1	R
		Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe31000-M6-F MMF LC-style	1	R

		Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe31002-M6-F MMF LC-style	1	R
		InfiniBand HCA 1 x 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed (Mellanox)	1	R
Communication, Network		InfiniBand HCA 1 x 200Gb/s PCIe x16 QSFP for the US market max. one IB HCA 200Gb controller can be installed (Mellanox)	1	R
		InfiniBand HCA 2 x 200Gb/s PCIe x16 (Mellanox)	1	R
GPU computing card		NVIDIA A100 80GB, 6912 cores, 1935GB/s, 80GB HBM2e, N/A, PCIe 4.0 x16	1	R
		NVIDIA A16, 64 GB, 800GB/s (4 x200GB/s), 64GB GDDR6 (4 x16GB), N/A, PCIe 4.0 x16	1	R
		NVIDIA A30, 933GB/s, 24GB HBM2, N/A, PCIe 4.0 x16	1	R
		NVIDIA T400 2GB, 2 GB, 2GB, N/A, PCIe x16, 3 x miniDP	1	R
		NVIDIA A100 40GB, 6912 cores, 1555 GB/sec, 40GB HBM2, N/A, PCIe 4.0 x16	1	R
		NVIDIA® Tesla® T4 LP, 2560 cores, -, -, 16GB GDDR6, N/A, PCIe 3.0 x16, -	1	R
		NVIDIA A40, 48 GB, 696 GB/s, 48GB, N/A, PCIe 4.0 x16	1	R
		NVIDIA® Quadro® RTX 4000, 2304 cores, 8 GB GDDR6, N/A, PCIe 3.0 x16, 3 x DisplayPort	1	R
		NVIDIA RTX™ A6000, 48 GB, 786 GB/s, 48 GB GDDR6, N/A, PCIe 4.0 x16, 4 x DisplayPort	1	R
		NVIDIA A100 80GB, 6912 cores, 1935GB/s, 80GB HBM2e, N/A, PCIe 4.0 x16	1	R
Graphics add on cards		NVIDIA® Quadro® P400 , 2 GB, N/A, PCIe x16, 3 x miniDP	1	R

1. Color MFP 4-in-1 A3

Colour MFP – 4 in 1 A3 (Minimum Technical Specification or an Equivalent)	Unit Price Year 1
PageWide Enterprise colour 785zs 4-1 Colour Printer - A3 , Print, Copy, Scan and Fax. 20.3 cm (8 in) CGD (Colour Graphics Display). PCL 6; PCL 5c; Professional mode speed: Up to 55 ppm black; Up to 55 ppm colour Scan resolution: Up to 600 ppi hardware; Up to 600 ppi optical Copy resolution: Up to 600 x 600 dpi black (text and graphics); Up to 600 x 600 dpi colour (text and graphics) Standard connectivity: 2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; Built-in Wi-Fi Direct; 1 Hardware Integration Pocket Paper handling: 100-sheet multipurpose tray, 550-sheet input tray 2; 3 x 550-Sheet paper tray and Stand; 500-sheet output bin; 350-Sheet stapler stacker; Duty cycle (monthly): Up to 125,000 pages.	R
Accessories	
Internal USB Ports (PW774dn; PW779dn; PW765dn; PW780dn; PW780dns; PW785f; PW785zs)	R
Foreign Interface Harness (PW774dn; PW779dn; PW765dn; PW780dn; PW780dns; PW785f; PW785zs)	R
Jetdirect 2900nw Print Server (PW774dn; PW779dn; PW765dn; PW780dn; PW780dns; PW785f)	R
Jetdirect 3000w NFC/Wireless Accessory (PW774dn; PW779dn; PW765dn; PW780dn; PW780dns; PW785f)	R
LaserJet MFP Analog Fax Accessory 500 (PW774dn; PW779dn; PW780dn; PW780dns)	R
Staple Cartridge Refill (PW774dn; PW779dn; PW780dns; PW785zs)	R
Jetdirect 3100w BLE/NFC/Wireless Accessory (PW765dn; PW780dn; PW780dns; PW785f)	R
High-Performance Secure Hard Disk 500GB (PW765dn; PW780dn; PW780dns)	R
PageWide Mgd 550-Sheet Paper Tray	R
PageWide Mgd 550Sht Paper tray and Cabinet	R
PageWide Mgd 3x550Sht Paper tray and Stand	R
PageWide Mgd 4000 Sht Paper tray and Stand	R
1 Year Post Warranty NBD Service W/Defective Media Retention For PageWide Enterprise Colour 78x	R
2 year post warranty NBD Service w/Defective Media Retention for PageWide Enterprise Colour 78x	R
3 year Next business day Service w/Defective Media Retention for PageWide Enterprise colour 78x	R
4 year Next business day Service w/Defective Media Retention for PageWide Enterprise colour 78x	R
5 year Next business day Service w/Defective Media Retention for PageWide Enterprise colour 78x	R
Installation Service with network configuration for Department Printer (1 unit) (774)	R
982A Cyan Original PageWide Cartridge,8,000 pages	R
982A Magenta Original PageWide Cartridge,8,000 pages	R
982A Yellow Original PageWide Cartridge,8,000 pages	R
982A Black Original PageWide Cartridge,10,000 pages	R
982X High Yield Cyan Original PageWide Cartridge,16,000 pages	R
982X High Yield Magenta Original PageWide Cartridge,16,000 pages	R

982X High Yield Yellow Original PageWide Cartridge,16,000 pages	R
982X High Yield Black Original PageWide Cartridge,20,000 pages	R

2. Color MFP 3-in-1 A4 printer

Colour MFP 3 in 1 A4 (Minimum Technical Specification or an Equivalent)	Unit Price Year 1
A4 , Print, copy, scan, fax,55 ppm General Office, 500 + 50 sheet MP input tray. 3. 10.92cm Color Graphic Display, IR touchscreen Duty cycle 50000 Pages/month. 10.92 cm (4.3") CGD (Colour Graphic Display). 2 Hi-Speed USB 2.0 Host. 1 Hi-Speed USB 2.0 Device. 1 Ethernet 10/100 Base-TX network. Print speed: General Office mode: Black - Up to 55 ppm; Color - Up to 55 ppm, ISO print speeds:Up to 40 ppm. Flatbed, ADFScan technology: Copy resolution: Up to 600 dpiUp to 40 cpm black/colour Paper: 500-sheet input tray, 50-sheet multi-purpose tray. Direct print supported: Wireless direct printing	1
Accessories	
PageWide Pro 500-sheet Paper Tray (PW377dw; PW477dw)	R
3 year Next business day onsite Hardware Support for PageWide Pro X477	R
4 year Next business day onsite Hardware Support for PageWide Pro X477	R
5 year Next business day onsite Hardware Support for PageWide Pro X477	R
973X High Yield Black Original PageWide Cartridge,10,000 pages	R
973X High Yield Cyan Original PageWide Cartridge,7,000 pages	R
973X High Yield Magenta Original PageWide Cartridge,7,000 pages	R
973X High Yield Yellow Original PageWide Cartridge,7,000 pages	R