

**NATIONAL HOME MORTGAGE FINANCE CORPORATION**

**TERMS OF REFERENCE  
PURCHASE OF IT EQUIPMENT PROJECT  
for CY 2020**

**1. Background**

The National Home Mortgage Finance Corporation (NHMFC) was created in 1977 by Presidential Decree No. 1267. It is mandated to increase the availability of affordable housing loans to finance the Filipino homebuyer's acquisition of housing units through the development and operation of a secondary market. As a primary secondary mortgage institution, NHMFC was mandated to operate a viable home mortgage market by purchasing mortgages originated by both private and public institutions that are within NHMFC's approved guidelines. These mortgages will be seasoned, pooled and securitized to recycle funds to provide liquidity for housing.

In compliance with Republic Act. No. 9184 known as "**Government Procurement Act**", NHMFC will be conducting a public bidding for the Purchase of IT Equipment Project.

**2. Objective**

This project aims to purchase the following hardware and software to be delivered and installed at NHMFC-Makati Head Office:

	Qty	Item Description
<b>Hardware:</b>		
a.)	16 Units	Laptop with Operating System(OS) for Fund and Assets Management Group(FAMG) Personnel
b.)	131 Units	Laptop with OS
c.)	60 Units	All-in-One Inkjet Tank Printers
<b>Software:</b>		
d.)	147 Licenses	Office Home and Business 2019
e.)	147 Licenses	Latest Version of Anti-Virus Software

**3. Approved Budget for the Contract**

The Approved Budget for the Contract (ABC) is **Ten Million Seven Hundred Thirty Four Thousand Pesos (PHP 10,734,000.00)**, inclusive of all applicable taxes and will be sourced from corporate funds for CY 2020.

#### 4. Technical Specifications

a.) Sixteen (16) Units – LAPTOP for FAMG Personnel

Sixteen (16) Units Laptop for FAMG Personnel with:	Technical Specifications	
		Processor:
<ul style="list-style-type: none"> <li>● Bundled and pre-loaded with Windows 10 Professional 64bit</li> <li>❖ Three (3) Years Warranty on Parts and Services</li> </ul>	GPU Model	NVIDIA GeForce GTX 1650
	Memory:	At least 8 GB DDR4
	Hard Disk:	At least 256GB SSD + 1 TB HDD
	Display Screen:	At least 15.6", Full HD (1920 x 1080), IPS
	Keyboard	With numpad
	Pre-loaded Operating System:	At least Windows 10 Professional 64 bit
	Camera:	At least 720p HD with dual-array mic and physical shutter
	Weight:	Maximum of 2.19 kg (4.8 lbs)
	Audio:	At least Dolby advance audio or equivalent
	Security:	TrueBlock Privacy Shutter TPM Kensington lock slot
	WiFi	1 x 1 WiFi 802.11 ac 2 x 2 WiFi 802.11 ac4 + Bluetooth 4.2
	Connectivity	HDMI , Bluetooth , Camera , Speakers , Microphone , 10 key , Trackpad , USB Type-C , USB3.1
	Ethernet	with rj45
	Mouse	Wireless Optical Mouse
	Battery:	Up to 9 hours, with Rapid Charge technology
Back Pack	with	
Warranty:	At least three (3) Years on Parts and Labor	

b.) One hundred thirty one (131) Units - LAPTOP

One hundred thirty one (131) Units Laptop with:	Technical Specifications	
		Processor:

<ul style="list-style-type: none"> <li>● Bundled and pre-loaded with Windows 10 Professional 64bit</li> <li>❖ Three (3) Years Warranty on Parts and Services</li> </ul>	<b>Memory:</b>	At least 8 GB LPDDR3
	<b>Graphics:</b>	Integrated Intel® UHD Graphics 620
	<b>Hard Disk:</b>	At least 256 GB SSD Serial ATA/600
	<b>Display Screen:</b>	At least FHD 1920x1080
	<b>Pre-loaded Operating System:</b>	at least Windows 10 Professional 64 bit
	<b>Camera:</b>	At least 720p HD
	<b>Weight:</b>	Maximum of 3.9 lbs.
	<b>Display and Graphics:</b>	not more than 14" display preferably In-plane Switching (IPS) Technology Touchscreen
	<b>Audio:</b>	At least Dolby advanced audio or equivalent
	<b>Security:</b>	Match-on-chip touch fingerprint reader
	<b>I/O (Input/Output) Ports</b>	Two USB 3.1 Gen 1 (one Always On), USB 3.1 Type-C Gen 1, one USB 3.1 Type-C Gen 2, HDMI, Headphone / microphone combo jack
	<b>Connectivity</b>	Wireless LAN Standard and bluetooth
	<b>Ethernet</b>	with rj45
	<b>Mouse</b>	Wireless Optical Mouse
	<b>Battery:</b>	Integrated battery, supports Rapid Charge
<b>Back Pack</b>	with	
<b>Warranty:</b>	At least three (3) Years on Parts and Labor	

c.) Sixty (60) Units – All-in-One Inkjet Tank Printers

Particulars	Minimum Specifications/Requirements of NHMFC
Type	Print, Scan, Copy, Fax with ADF
Functions	Must have at least Print, Scan and Copy
Product Dimension (With/Depth/Height)	375 mm x 347 mm x 237 mm
<b>Paper Handling:</b>	

No. of Paper Trays	1
Paper Hold Capacity	Input Capacity: Up to 100 sheets-A4 / Letter Plain paper (80 g/m <sup>2</sup> ), Up to 20 sheets-Premium Glossy Photo Paper, 10 sheets-Envelope, 30 sheets-Postcard Output Capacity: 30 sheets A4 Plain Paper, 20 sheets Premium Glossy Photo Paper
Paper Size	Legal, 8.5x13", Letter, A4, 5x7", 4x6", Envelopes #10
<b>Print Speed:</b>	
Draft, A4(Black/Colour)	Up to 33 ppm/15 ppm
First Page Out Time from Ready Mode (Black/Colour)	Approx. 10 sec/16 sec
<b>Scan Function:</b>	
Scanner Type	Flatbed colour image scanner
Sensor Type	CIS
Optical Resolution	1200 dpi x 2400 dpi
Max. Scan Area	216x297 mm(8.5"x11.7")
Scanner Bit Depth (Colour)	48-bit input, 24-bit output
Scanner Bit Depth (Grayscale)	16-bit input, 8-bit output
Scanner Bit Depth (Black & White)	16-bit input, 1-bit output
Scan Speed (Flatbed/ADF(Simplex))	Scan Speed (Flatbed/ADF(Simplex))
<b>Copy Speed :</b>	
Max. Copy Resolution	600 x 600 dpi
Maximum Copies from Standalone	99 sheets
Maximum Copy Size	Legal
<b>ADF Specifications:</b>	
Support Paper Thickness	64-95 g/m <sup>2</sup>
Paper Capacity	30 pages (A4), 10 pages (Legal)
<b>Fax Functions:</b>	

Type of Fax	Walk-up black-and-white and colour fax capability
Fax Speed(Data Transfer Rate)	Up to 33.6 kbps, Approx. 3sec/page
Transmission Paper Size(ADF)	A4, Letter, Legal
Fax Resolution:	Up to 200 x 200 dpi
<b>Interface:</b>	
USB	USB
Network	Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct, Ethernet
Supported OS	At least Windows 10 or higher, Mac OS x 10.6.8 or later
<b>Weight:</b>	
Weight	At least 5.0 kg
<b>Warranty:</b>	
Waranty	One (1) year warranty on parts and labor

#### d.) Software Licenses

Qty	Software
147 Licenses	Office Home and Business 2019
147 Licenses	Latest Version of Anti-Virus Software (OEM)

#### e.) One Hundred Forty Seven (147) Licenses Latest Version for Anti-Virus

##### Anti-Virus Software Specifications

The NHMFC is looking for an anti-virus software (Enterprise Edition) that will deliver a multi-layer anti-malware protection for workstations and servers with end-point controls and unified management console (UMC). It shall also support for **one hundred forty seven (147) laptops** with the following features:

##### 1) Anti-Malware

Automatic and On-Demand Scanning  
Active Disinfection

Signature-Based Protection  
Urgent Detection System  
Behavioral Analysis  
Cloud-Based Protection  
Host-Based Intrusion Prevention System (HIPS) with Personal Firewall  
Network Attack Blocker  
Ransomware Protection

## 2) Endpoint Controls

Application Control  
Device Control  
Web Control  
USB Port Control

## 3) Unified Management Console

# 5. BIDDER'S SUPPORT SERVICES

## 5.1) Delivery

All items must be delivered within forty-five (45) working days upon receipt of purchase order.

## 5.2) Hardware Installation and Maintenance

### 5.2.1) Hardware Installation

The bidder is responsible for the installation of the products delivered at NHMFC – Makati Office in compliance with the technical requirements specified in the technical specifications of the Terms of Reference (TOR).

The bidder shall test the products and make sure that the hardware delivered shall support the existing application system of NHMFC. The PCs shall be used as work stations for the application systems being implemented by NHMFC. *The NHMFC has the following: Oracle Server X5-2L (Application Server) running in Linux operating system; the domain and Microsoft Dynamic Server is IBM x 3650 M4 running in Microsoft Server 2012; the database server is Oracle Database Appliance X5-2 running in Red Hat Enterprise Linux Server release 6.7; and the database for DCMS is DB2 running in Red Hat Enterprise Linux Server release 6.9 and DCMS software is IBM Filenet version 5.2.1, Microsoft Dynamics is MS SQL while for Database Servers are Oracle 12/C and Oracle Application Cluster.*

5.2.2) Hardware Maintenance

During the warranty period the bidder is required to provide the following:

5.2.2.1) Response time of not more than one (1) day after receipt of call.

5.2.2.2) Mean Time to Repair (MTTR) of not more than one (1) day. In the event that repair exceeds two (2) days, the vendor must provide a back-up and/or replacement unit during the warranty period.

5.3. Software Installation

The bidder shall install and configure the operating systems, MS Office Home and Business 2019 and/or other related software.

5.4. Documentation

The bidder shall document (hard/soft copy) the hardware and software installation procedures and submit copies to NHMFC.

**6. Payment Terms**

The payment shall be done within thirty (30) working days after delivery and acceptance.

**BIDS AND AWARDS COMMITTEE**

**ATTY. DANTE M. PATAPAT**  
Member

**CAROLINA C. CORTEZ**  
Member

**MA. VICTORIA L. ALPAJARO**  
Member

**ROMEO S. ROLDAN**  
Vice Chairperson

**LOURDES C. BACANI**  
Chairperson