



NATIONAL HOME MORTGAGE FINANCE CORPORATION

TERMS OF REFERENCE PURCHASE OF IT EQUIPMENT PROJECT

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, software and database to be delivered and installed at NHMFC-Makati Office:

	Qty	Item Description
Hardware:		
a)	187 Units	Desktop (Personal Computer)
b)	33 Units	Laptop
c)	187 Units	Uninterruptible Power Supply (UPS)
d)	66 Units	All-in-One (3 in 1) Inkjet Tank Printers
e)	35 Units	LaserJet Printers (Black)
f)	20 Units	Officejet Wide Format all-in-One (Colored) Printers
g)	66 Units	Dot Matrix Printers
h)	2 Units	Line and Network Printers
Software:		
a)	187 Lics.	Operating System (Windows 7 64 Bit)
b)	24 Lics.	Windows 10
c)	9 Lics.	OS X El Capitan
c)	220 Lics.	Latest MS Office PRO(Excel, Word, Powerpoint, etc. with Recovery CD
d)	211 lics.	Anti-Virus Software

3. **Approved Budget for the Contract**

The Approved Budget for the Contract (ABC) is **Twenty One Million Two Hundred Thousand Pesos (PHP 21,200,000.00)**, inclusive of all applicable taxes and will be sourced from corporate funds.

4. **Technical Specifications**

a) **One Hundred Eighty-Seven (187) Units - Desktop**

Particulars	Minimum Specifications
Brand	Branded
Processor	Intel Core i7, (64 bit)
Operating System	Windows 7
Monitor	At least 21" with resolution 1920 x 1080
Webcam	With
Memory	16 GB
Storage	1 TB
Audio	With
Graphics	With
Applications	Latest MS Office PRO(Excel, Word, Powerpoint, etc. with Recovery CD
Mouse	Optical
DVD Writer	With
Network:	
Wireless LAN Data Rate	Integrated 10M/100M/1000M Gigabit
Wireless LAN Type	IEEE802.11b/g/n
Warranty	At least three (3) years warranty on parts and labor

b) **Twenty Four (24) Units - LAPTOP**

Particulars	Technical Specifications
Brand	Branded
Type	Ultrabook
Processor	Intel Core i7
Operating System	Windows 10
Display	12.5" to 14"
Webcam	With
Memory	At least 1 x 8GB
Storage	At least 1 TB
Audio	With
Graphics	With
Applications	Latest MS Office PRO(Excel, Word, Powerpoint, etc. with Recovery CD
Mouse	With Optical
DVD Writer	With
Warranty	At least three (3) years warranty on parts and labor

c) Nine Units (9) Laptop

Particulars	Technical Specifications
Brand	Branded
Type	Lightweight
Processor	1.6 GHZ Dual Core i5, Turbo Boost up to 2.7 GHZ
Display	11 inch
Memory	4 GB 1600 MHz LPDDR3 SDRAM
Storage	256 GB PCIe-based Flash Storage
Graphics	Intel HD Graphics 60
Mouse	Magic Mouse 2 (Wireless)
Weight	1.08 Kg or 2.38 lbs
Operating System	Os X El Capitan (<i>Included also in Item j</i>)
Applications	MicroSoft Office 2016 (<i>Included also in Item j</i>)
Accessories	Mini Display Port to VGA Adapter
Warranty	One (1) Year

d) One Hundred Eighty Seven (187) Units - Uninterruptible Power Supply (UPS) for PC

Particulars	Technical Specifications
Output Power Capacity	At least 600 watts/1000 VA
Battery Type	Maintenance-free sealed Lead-Acid Battery with suspended electrolyte
Back-up Time	At least 15 minutes at full load
Voltage (Input/Output)	220 V
Warranty	One (1) year warranty on parts and labor

e) Sixty Six (66) Units Inkjet Tank Printer (All-in-One)

Particulars	Minimum Specifications
Print Speed	33 ppm
SCANNING:	
Optical Resolution	1200 dpi x 2400 dpi
Speed:	
Monochrome 300 dpi	11 sec
Colour 300 dpi	28 sec
COPY SPEED	
Max. Black Draft Text	Approx. 5 sec (Draft)
Max. Colour Draft Text	Approx. 10 sec (Draft)
Maximum Copies From Standalone	20 sheets
Interface:	
USB	Hi-Speed 2.0
Network	Wi-Fi IEEE 802.11b/g/n
Warranty	One (1) year warranty on parts and labor

f) Thirty Five (35) Units – LaserJet Printers (Black)

Particulars	Minimum Specifications
Print Speed	30 ppm
Print Resolution	Up to 600 by 600 dpi with Resolution Enhancement Technology
Processor	266 MHZ
Memory	16 MB
Connectivity	Capable for network printer
Paper Sizes	Support at least A4, Letter Size, Legal, Envelopes, Index Cards
Operating System	Compatible with Windows XP, Windows 7 or 8 or 10
Other Requirements:	With USB interfaces, manual, and complete cables
Warranty	One (1) year warranty on parts and labor

g) Twenty (20) Units Officejet, Wide Format All-in-One (Colored) Printers

Particulars	Minimum Specifications
Functions	Print, Copy, Scan
Print Speed	Black - 30 ppm (draft), Color: 26 ppm (draft)
Print Resolution	Black: up to 600 x 1200 dpi Color: up to 4800 x 1200 dpi
Processor	500 mhz
Number of Print Cartridges	4 (cyan, magenta, yellow, black)
Connectivity	Capable for network printer
Paper Sizes	Support at least A4, Letter Size, Legal, A3, Index Cards, etc.
Operating System	Compatible with Windows XP, Windows 7 or 8 or 10
Other Requirements:	With USB interfaces, manual, and complete cables
Warranty	One (1) year warranty on parts and labor

h) Sixty-Six (66) Units Dot Matrix Printers

Particulars	Minimum Specifications
Printing Method	Impact dot matrix
Number of pins	24 pins
Number of columns	136 columns
Printing speed	LQ: 12 cpi; 144 c
Printing speed	LQ: 12 cpi: 144 chars/s, 10 cpi: 120 chars/s, Draft: 12 cpi: 432 chars/s, 10 cpi: 360 chars/s, HighSpeed-Draft
Printing Resolution	360 x 180 DPI
Interface	RS-232 (optional), Bidirectional parallel, USB 2.0 Type B, Ethernet interface (100 Base-TX / 10 Base-T) (optional), Type B interface
Operating Systems Compatibility	Windows 2000, Windows 7, Windows 8, Windows 98, Windows Vista, Windows XP, Windows XP x64, Windows 10
Other Requirements	Standard cable attachments, and inclusions of 10/100Base Ethernet
Warranty	One (1) year on both parts and labor

i) Two (2) Units - Line Printers (High Volume Mission-Critical Impact Printing)

Particulars	Minimum Specifications
Print Technology	Line impact dot matrix – Cabinet type Network Printer
Speed	1,500 lines per minute
Paper Sizes	Width: 2.5” – 13.6” or up to 18.9”, Length: 1 – 255 lines
Print Media	Up to 6-part forms
Paper handling	Straight paper path with a 4-tractor system for jam-free operation
Compatibility	Compatible with Windows 7, Oracle Applications
Warranty	One Year both parts and labor

j) Software Licenses

Qty	Software
211	Latest Version of Anti-Virus for Three (3) Years
220	Latest MS Office PRO(Excel, Word, Powerpoint, etc. with Recovery CD
187	At least Windows 7 Professional 64bit
24	Windows 10 Professional 64 bit
9	OS X El Capitan

k) Two Hundred Eleven (211) Licenses 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 smartphones, workstations and servers with end-point controls and mobile device management under a single, and unified management console. It shall also support **two hundred eleven (211) workstations** 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

2) Mobile Security

- Mobile Anti-Malware
- Application Control
- Encryption
- Containerisation
- Anti-Theft Capabilities

3) Endpoint Controls

- Application Control
- Device Control
- Web Control

4) Unified Management Console

5. BIDDER'S SUPPORT SERVICES

5.1) Delivery

All items must be delivered within thirty (30) 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 oracle linux release 5.10; and the database for Microsoft Dynamics is MS SQL while for Database Servers are Oracle 12/C and Oracle Application Cluster.

5.2.2) Hardware Maintenance

The bidder must perform quarterly preventive maintenance on the equipment delivered to the NHMFC. The preventive maintenance must include cleaning, adjustments, corrections, repairs and replacements of defective parts. During the warranty period the bidder is required to provide the following:

5.2.2.1) Response time of not more than two (2) hours after receipt of call.

5.2.2.2) Mean Time to Repair (MTTR) of not more than four (4) hours. In the event that repair exceeds twenty-four (24) hours, the vendor must provide back-up and/or replacement unit during the warranty period.

5.3. Software/ Database Installation

The bidder shall install and configure the operating systems, and/or other related software.

5.4. Documentation

The bidder shall document the hardware and software installation procedures and submit copies to NHMFC.

6. Payment Terms

The payment shall be done within fifteen (15) days after delivery and acceptance of deliverables.

Approved by:

BID AND AWARDS COMMITTEE