

CORRIGENDUM

- 1- This corrigendum is issued with reference to Invitation for bids (IFB) IFB No: PROC: /S-GPE/SED/ICT/NCB (04)-2017. Following are updated technical specifications

Description of Packages

Packages	#	Components	Quantity
1	i	BHRMIS Application Server	01
	ii	BHRMIS Database Server	01
	iii	BHRMIS Application, Database and Source Input Files Backup for Database	01
2	i	Laptop with licensed Operating System	40
3	i	Desktop with licensed operating systems	80
4	i	Printers	25
5	i	Large Scanner	02
6	i	UPS (30KV)	02
7	i	KVM Console USB Connector Interface	08
	ii	Switches 24-PORTS	02
8	i	USB Flash Drive	25
	ii	Portable Hard Drives	10
9	i	Softwares needed for Office	
10	i	Specialized Laptop/Desktops with licensed Operating System	

SECTION VI
TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS: PACKAGE 1			
PACKAGE 1.1		BHRMIS-Application Server	
QUANTITY		01	
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
Make	(Specify)		
Model	(Specify)		
Developer /Manufacturers literature	(Specify)		
Generation	09 th Generation (Latest)		
Processor Type	Preferably Intel Xeon or Equivalent		
Processor Speed	Min 2.3GHz		
Processor Bits	64-Bits		
No of Cores	Minimum 08		
Form Factor	Rack Mountable, inclusive of Rack Mount Kit size 2U or 04U		
CPU Configuration	02 (Minimum)		
Cache	Minimum 20MB Cache		
Installed RAM	32GB ECC		
Maximum Memory	Upgradeable to 768 GB RDIMM		
Type of memory	DDR4		
Hard drive size	4*500GB or above (Minimum 7200 rpm SATA HDD)		
Operating System	Supports Linux Enterprise, CentOS latest release		
Power Supply	Dual		
Warranty	03 Years Comprehensive		

TECHNICAL SPECIFICATIONS: PACKAGE 1			
PACKAGE 1.2		BHRMIS-Database Server	
QUANTITY		01	
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
Make	(Specify)		
Model	(Specify)		
Developer /Manufacturers literature	(Specify)		
Generation	09th Generation (Latest)		
Processor Type	Preferably Intel Xeon or Equivalent		
Processor Speed	Min 2.3GHz		
Processor Bits	64-Bits		
No of Cores	Minimum 08		
Form Factor	Rack Mountable, inclusive of Rack Mount Kit size 2U or 04U		
Fiber Card	08 GB or above		
CPU Configuration	02 (Minimum)		
Cache	Minimum 20MB Cache		
Installed RAM	32GB ECC		
Maximum Memory	Upgradeable to 768 GB RDIMM		
Type of memory	DDR4		
Hard drive size	4*500GB or above (Minimum 7200 rpm SATA HDD)		
Operating System	Supports Linux Enterprise, CentOS latest release		
Power Supply	Dual		
Warranty	03 Years Comprehensive		

TECHNICAL SPECIFICATIONS: PACKAGE 1

PACKAGE 1.3	BHRMIS Application, Database & Source Input Files for Database (Storage System to connect Item in PACKAGE 1.2)
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QUANTITY	01
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Bidder's response column must be filled either yes or no.
Bidders must attach technical literature for item quoted

Storage System to connect item #2

Dual Controller (01)	YES	If 'NO' indicate your offer
10 x 300GB or above 2.5in 10K 12Gb SAS HDD		
Fiber Optic Cable (05 meters or more)		
2 x 8Gb FC 4-Port per controller		
Dual Power Supply		
Rack Mountable, inclusive of Rack Mount Kit size 2U or 04 U Form Factor		

TECHNICAL SPECIFICATIONS: PACKAGE 2			
PACKAGE 2.1		Ci7 Laptops with Licensed OS	
QUANTITY		40	
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
Make	(Specify)		
Model	(Specify)		
Manufacturers literature	(Specify)		
Generation	06 th or above		
Processor Type	Intel Core i7		
Processor Bits	64-Bits		
No of Cores	2		
Installed RAM	8GB		
Type of memory	DDR3 or above		
Hard drive size	500GB SATA		
Optical Drive	ROM DVD/RW		
Internal Display	15.6" diagonal LED-backlit HD anti-glare (1366 x 768)		
Graphic Controller Type	Intel® HD Graphics 520 or equivalent		
Wireless LAN	802.11 a/b/g/n/ac Wi-Fi with Bluetooth or Equivalent		
Communication	10/100/1000 Ethernet Controller		
Finger Print	Yes		
Power Supply	45 W Smart AC Adopter		
Battery Life	Minimum 06 hours		
Ports/Connectors	<ul style="list-style-type: none"> ❖ USB 3.0 – One or more ❖ USB 2.0 – One or more ❖ HDMI – One ❖ Power connector – One 		
Operating system (OEM)	Windows 10 Pro (64-bits) (OEM)		
Carrying Bag	As per suggested model (Original)		
Warranty	03 Years		

TECHNICAL SPECIFICATIONS: PACKAGE 3

PACKAGE 3.1 Core i5 Desktop Computers with Licensed OS

QUANTITY 80

Bidder's response column must be filled either yes or no.

Bidders must attach technical literature for item quoted.

RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS

Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Processor Family	Intel Core i5 or equivalent		
Processor	Intel Core i5		
Generation	06 th Latest		
Form Factor	Micro Tower		
No of Cores	4		
Installed RAM	8GB		
Memory Speed	1066 MHz (Minimum)		
Hard Drive Type	HDD		
Hard Drive Size	1 TB		
Interface Type	SATA		
Optical Drive	SATA Super Multi DVD writer		
Ports/ Connectors	<ul style="list-style-type: none"> ❖ USB 3.0 ❖ USB 2.0 ❖ 1 RJ-45 ❖ 1VGA ❖ 1 microphone ❖ 1 headphone 		
Networking Type	Integrated		
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet		
Mouse	Optical		
Keyboard	USB		
OS Provided	Latest Windows 10 Pro 64-bit (OEM)		
Monitor Type	18.5 inches LED		
Warranty	03 Years		

TECHNICAL SPECIFICATIONS: PACKAGE 4

PACKAGE 4.1	Printer Type I
Quantity	20 Units

Bidder's response column must be filled either yes or no.
 Bidders must attach technical literature for item quoted.

RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS

Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Print Technology	Laser		
Printer Type	Non-Network		
Print Option	Duplex Automatic		
Print Speed (B/W)	Up to 35 ppm - A4		
Print first page out (Black)	8 sec		
Print quality (Black)	1200 x1200 dpi (Dot per inch)		
Monthly Duty Cycle (A4)	Up to 650,00 pages or more		
Processor Speed	750 MHz or More processor		
e-Print Capability	Yes		
Connectivity, Standard	1 Hi-Speed USB 2.0, 1 Ethernet 10/100/1000T network		
Memory Standard	256 MB or More		
Paper Handling Input	Up to 350 sheets Standard (Tray 1: 100-sheets, Tray 2: 250-sheets)		
Paper Handling Output	Up to 250 Sheets		
Media Size Supported	A4; B4 (JIS); B5 (JIS); A5; 16K		
Power	220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz)		
Power Consumption	680 watts (printing), 11 watts (ready), 2.5 watts (sleep), 0.2 watts (off)		
Operating Temperature Range	15 to 32.5°C		
Operating Humidity Range	30 to 70% RH		

TECHNICAL SPECIFICATIONS: PACKAGE 4

PACKAGE 4.2	Printer Type II
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QUANTITY	04 UNITS
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Bidder’s response column must be filled either yes or no.
 Bidders must attach technical literature for item quoted.

RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS

Items	Specifications	Bidder Compliance	
		Yes/No	If “No” indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Print Technology	Laser		
Printer Type	Network		
Print Option	Multi Duplex Automatic		
Print Speed (B/W)	Minimum 60 ppm - A4		
Print first page out (Black)	8 sec		
Print quality (Black)	1200 x1200 dpi (Dot per inch)		
Monthly Duty Cycle (A4)	Up to 650,00 pages or more		
Processor Speed	750 MHz or More processor		
e-Print Capability	Yes		
Connectivity, Standard	1 Hi-Speed USB 2.0, 1 Ethernet 10/100/1000T network		
Memory Standard	256 MB or More		
Paper Handling Input	Up to 350 sheets Standard (Tray 1: 100-sheets, Tray 2: 250-sheets)		
Paper Handling Output	Up to 250 Sheets		
Media Size Supported	A4; A3; B4 (JIS); B5 (JIS); A5; 16K		
Power	220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz)		
Power Consumption	680 watts (printing), 11 watts (ready), 2.5 watts (sleep), 0.2 watts (off)		
Operating Temperature Range	15 to 32.5°C		
Operating Humidity Range	30 to 70% RH		

TECHNICAL SPECIFICATIONS: PACKAGE 4			
PACKAGE 4.3		Color Printer	
Quantity		01 Unit	
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted.			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Printer Technology	Laser		
Printer Type	Network		
Print Speed (Black)	32 PPM or Higher		
Print Speed (Color)	32 PPM or Higher		
Print First Page Out (Black)	As fast as 17 seconds		
Print First Page Out (Color)	As fast as 17 seconds		
Print Resolution (Black)	600x600 dpi		
Print Resolution (Color)	600x600 dpi		
Processor	600 MHz		
Memory	384 MB		
Monthly Page Volume	10,000 or Higher		
Duty Cycle (Monthly, A4)	Up to 75,000 Pages		
Media Types Supported	Paper (bond, brochure, colored, glossy, letterhead, photo, plain, preprinted, pre punched, recycled, rough), postcards, transparencies, labels, envelopes		
Media Sizes Supported	Letter, legal, executive, 8.5 x 13 in, 3 x 5 in, 4 x 6 in, 5 x 8 in, envelopes (No 10, Monarch)		
Input Tray Capacity	50-sheet multipurpose tray, 250-sheet input tray 2		
Output Tray Capacity	Up to 150 sheets		
e-Print capability	Yes		
Mobile printing capability	Yes		
Wireless capability	Yes, built-in Wi-Fi 802.11 b/g/n		
Connectivity, standard	1 Hi-Speed USB 2.0 port, 1 Fast Ethernet 10/100Base-TX network port, 1 Wi-Fi 802.11 b/g/n		
Operating Temperature Range	15°C to 30°C		
Operating Humidity Range	10% to 80% RH		
Power Requirements	Input voltage: 110 to 127 VAC (+/- 10%), 60 Hz (+/- 3 Hz); 220 to 240 VAC (+/- 10%), 50 Hz (+/- 3 Hz)		
Power Consumptions	315 watts (Printing), 11.5 watts (Ready), 5.1 watts (Sleep), 0.2 watts (Off)		

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TECHNICAL SPECIFICATIONS: PACKAGE 5			
PACKAGE 5.1		Large Scanner	
Quantity		02 Units	
Bidder's response column must be filled either yes or no.			
Bidders must attach technical literature for item quoted.			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Scanner Type	ADF+ Flatbed Document Scanner A3 Size		
Color Scanning	Yes		
Preview Speed	Up to 8.5 seconds		
Scan Resolution (Optical)	150 to 600 dpi		
Scan Resolution (Hardware)	Up to 2400x4800 dpi		
Duty Cycle	25000 pages scans per day		
Scan Side	Simplex, Duplex		
Bit Depth	48-bits		
Level of Greyscale	256		
Lamp Life	15000 hours or more		
Scan Speed	Minimum 100 ppm/200 ipm in color or monochrome, landscape		
Supported Document Sizes	ADF up to 11 in x 17 in Flatbed up to 12 in x 18 in Minimum size: 0.25 x 0.25 mm (0.01 x 0.01 in) Maximum size: 215.9 x 297.2 mm (8.5 x 11.7 in)		
Media Types	Paper (plain, inkjet, photo, newsprint, magazine articles)		
Scan File Format	BMP, JPEG, GIF, TIFF, TIFF Compressed, PNG, PCX, Flash Pix (FPX), PDF, PDF searchable, RTF, HTM, TXT; Mac: TIFF, PICT, JPEG, GIF, Flash Pix, Plain Text, PDF, HTML, Rich Text		
Connectivity, Standard	1 Hi speed USB 2.0 with Ethernet		
Power Consumptions	2.5 watts (maximum), 0.5 watts (standby), 0.0125 watts (manual-off)		
Operating Temperature Range	10° to 35° C (50° to 95° F)		
Operating Humidity Range	15 to 80% RH (non-condensing)		

TECHNICAL SPECIFICATIONS: PACKAGE 6

PACKAGE 6.1	UPS 20 KVA		
Quantity	02 Units		
Bidder's response column must be filled either yes or no.			
Bidders must attach technical literature for item quoted.			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Capacity	20 KVA/ 18 KW		
AC Voltage	230 VAC		
AC Current	5A		
AC Frequency	50 Hz / 60 Hz \pm 1 Hz (Auto sensing)		
Protection	Fuse		
Topology	On-Line double conversion		
Efficiency	Up to 94%		
Wave Form Type	Pure sine wave		
INV Voltage	228 VAC to 478 VAC 3 phase, 4 wire system		
Phase	3 Phase in 3 Phase Out/ 3 Phase in single phase out		
INV Frequency	50 \pm 10%HZ		
Output Frequency Range	50HZ+-1		
Output Crest Ratio	3:1		
Brownout Transfer / Over-voltage Transfer	170 VAC, typical / 280 VAC, typical		
Output Connections	2 Universal outlets		
AC Power Surge Protection	All outlets		
Typical Recharge Time	6 to 8 Hours		
Transfer Time	Zero		
Back Up Time	<6 min		
Indicator	LED & BUZZER (Preferably)		
Alarm	Battery alarm, fault alarm, over voltage, under voltage		
Operating Temperature	0 - 40 °C		
Battery Type	12V , 7 AH lead acid (Maintenance Free)		

TECHNICAL SPECIFICATIONS: PACKAGE 7			
PACKAGE 7.1		KVM Console USB Connector Interface	
Quantity		08 Units	
Bidders must attach technical literature for item quoted.			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
	Make		
	Model		
Type	KVM Adapter		
Console Connectors	Connector on First End: RJ 45 Connector on Second End: USB, Keyboard/Mouse Connector on Second End: VGA		

TECHNICAL SPECIFICATIONS: PACKAGE 7			
PACKAGE 7.2		Switches-24 Ports	
Quantity		02 Units	
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted.			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
		Bidder Compliance	
Items	Specifications	Yes/No	If "No" indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Device Type	Switch - 24 ports - Managed - stackable		
Enclosure Type	Rack-mountable - 1U inclusive of Rack Mount Kit		
Subtype	24 x 10/100/1000		
Power Device	Internal power supply		
Voltage Required	AC 120/230 V (50/60 Hz)		
Interfaces	24 x 1GBaseT - RJ-45 1 x console – RJ-45 – management		

TECHNICAL SPECIFICATIONS: PACKAGE 8

PACKAGE 8.1	64 GB Flash Drive
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Quantity	25 Units
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Bidder's response column must be filled either yes or no.
Bidders must attach technical literature for item quoted.

RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS

		Bidder Compliance	
Items	Specifications	Yes/No	If "No" indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Capacity	64GB		
Connectivity Port	USB		
Transfer Speed	20 Mbit		

TECHNICAL SPECIFICATIONS: PACKAGE 8			
PACKAGE 8.2		Portable Hard Drives	
QUANTITY		10	
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted.			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
		Bidder Compliance	
Items	Specifications	Yes/No	If "No" indicate your Offer
	Make		
	Model		
	Manufacturers literature		
Capacities	2TB		

TECHNICAL SPECIFICATIONS: PACKAGE 9

PACKAGE 9.1	Software Needed for Office
Quantity	07 Different Softwares

S.No	Title	No of Copies/ Quantity
01	Stata /MP Database software (64-cores)	01 Copy
02	Nuance Dragon Naturally Speaking Professional Wireless	03 Copies
03	Nuance OmniPage Ultimate	01 Copy
04	Microsoft Project Professional 2016 (64 bit)	02 Copies
05	Microsoft Office 365 ProPlus (64 bit)	03 Copies
06	Microsoft Visio Professional 2016 (64 bit)	01 Copy
07	Mindjet MindManager for Windows	02 Copies

All the software packages should be standard office usage products with latest release and maximum export features in other software's.

TECHNICAL SPECIFICATIONS: PACKAGE 10

PACKAGE 10.1	Specialized Laptops/PC all in one with Licensed OS		
QUANTITY	02		
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
Make	(Specify)		
Model	(Specify)		
Manufacturers literature	(Specify)		
Generation	6th Generation (Latest)		
Processor Type	Intel Core i7		
Processor Speed	Min 2.4GHz		
Processor Bits	64-Bits		
Processor Threads	4		
No of Cores	4		
L3 Cache	3 MB		
Type of RAM	DDR3L - 1600 (Transfer rates up to 1600 MT/s)		
No. of sPACKAGES	Two SODIMM sPACKAGES supporting dual-channel memory		
Installed RAM	16GB SODIMMs		
Maximum Memory	Upgradeable to 16384 MB with optional 8192 MB SODIMMs in sPACKAGES 1 and 2		

Storage	1 TB Rapid Hybrid Drive (5400 rpm SMART SATA HDD)		
Display	28" PixelSense Display with 4500 x 3000 (192 DPI), minimum 10-point multi-touch with 3.2 aspect ratio with zero gravity hinge		
External Display Support	Up to 32-bit per pixel colour depth		
Graphic Controller Type	NVIDIA GeForce GTX 965M 2GB GPU GDDR5 memory or		
Pen	1,024 levels of pressure sensitivity Magnetic storage or equivalent		
Key Board & Trackpad & Dial	Full-size, integrated backlit keyboard with 1.6mm key travel Precision trackpad with glass-laminated trackpad (7,350 sq. mm) Five-finger contact recognition with full Windows 10 support		
HDMI Port	HDMI port supports direct connection to high-definition displays with up to 1920 x 1200@60Hz resolution and 7-channel audio		
Network	Wi-Fi: 802.11ac Wi-Fi wireless networking, IEEE 802.11 a/b/g/n compatible Bluetooth: Bluetooth 4.0 wireless technology Xbox Wireless built-in		
Security	TPM chip for enterprise security Enterprise-grade protection with Windows Hello face sign-in		
Audio/Multimedia	<ul style="list-style-type: none"> ❖ Stereo microphones Omnisonic speakers with Dolby® Audio Premium 3.5mm headphone jack ❖ Function keys for microphone mute, volume up, and volume down 		
Webcam	Windows Hello2 face sign-in camera 5.0MP front-facing camera with 1080p HD video		
Finger Print	Yes		
Digital Media SPACKAGEs	Multi Media Reader SPACKAGE supporting SD, SDHC, and SDXC		
Operating system (OEM)	Latest Windows 10 Pro (64-bits) (OEM)		
Carrying Bag	As per suggested model (Original)		
Accessories in the Box	<ul style="list-style-type: none"> ❖ Surface Studio or Equivalent/similar ❖ Pen ❖ Keyboard ❖ Mouse ❖ Dial 		
Warranty	03 Years		

TECHNICAL SPECIFICATIONS: PACKAGE 10			
PACKAGE 10.2		Specialized Laptops with Licensed OS	
QUANTITY		02	
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
Make	(Specify)		
Model	(Specify)		
Manufacturers literature	(Specify)		
Generation	6th Generation (Latest)		
Processor Type	Intel Core i7		
Processor Speed	Min 2.4GHz		
Processor Bits	64-Bits		
Processor Threads	4		
No of Cores	2		
L3 Cache	3 MB		
Type of RAM	DDR3L - 1600 (Transfer rates up to 1600 MT/s)		
No. of SPACKAGEs	Two SODIMM sPACKAGEs supporting dual-channel memory		
Installed RAM	16GB SODIMMs		
Type of memory	DDR3		
Storage	512 GB SSD		
Display	13.5" (diagonal) PixelSense with at least 3000x2000 (267 ppi) display resolution minimum aspect ratio: 3:2 100 percent sRGB color, individually calibrated and minimum 10-point multitouch		
External Display Support	Up to 32-bit per pixel colour depth		
Graphic Controller Type	Intel® HD Graphics 520 and optional NVIDIA® GeForce® graphics processor with dedicated 1GB GDDR5 memory or equivalent		
Pen	1,024 levels of pressure sensitivity Magnetic storage or equivalent		
Key Board & Trackpad	Full-size, integrated backlit keyboard with 1.6mm key travel Precision trackpad with glass-laminated trackpad (7,350 sq. mm) Five-finger contact recognition with full Windows 10 support		
HDMI Port	HDMI port supports direct connection to high-definition displays with up to 1920 x 1200@60Hz resolution and 7-channel audio		

Network	802.11ac 2x2 MIMO Wi-Fi wireless networking; IEEE 802.11a/b/g/n compatible Bluetooth® 4.0 LE wireless technology		
Security	TPM 2.0 chip for enterprise security		
Audio/Multimedia	<ul style="list-style-type: none"> ❖ Dual microphones, front- and rear-facing Front-facing stereo speakers with Dolby® audio ❖ Function keys for microphone mute, volume up, and volume down 		
Webcam	<ul style="list-style-type: none"> ❖ Windows Hello face-authentication camera (front-facing) or equivalent ❖ 8.0MP rear-facing auto-focus camera, with 1080p HD camera ❖ 5.0MP front-facing 1080p HD camera 		
Finger Print	Yes		
Power Supply	45 W Smart AC Adopter		
Primary Battery	4-cell (44 W-Hr) Lithium-Ion battery		
Battery Life	Up to 16 hours		
Digital Media SPACKAGEs	Multi Media Reader SPACKAGE supporting SD, SDHC, and SDXC		
Operating system (OEM)	Latest Windows 10 Pro (64-bits) (OEM)		
Carrying Bag	As per suggested model (Original)		
Accessories in the Box	<ul style="list-style-type: none"> ❖ Surface Book or Equivalent/similar ❖ Pen ❖ Keyboard ❖ Mouse ❖ Dial 		
Warranty	03 Years		

TECHNICAL SPECIFICATIONS: PACKAGE 10			
PACKAGE 10.3		Specialized Laptops with Licensed OS	
QUANTITY		03	
Bidder's response column must be filled either yes or no. Bidders must attach technical literature for item quoted			
RECOMMENDED MINIMUM TECHNICAL SPECIFICATIONS			
Items	Specifications	Bidder Compliance	
		Yes/No	If "No" indicate your Offer
Make	(Specify)		
Model	(Specify)		
Manufacturers literature	(Specify)		
Generation	6th Generation (Latest)		
Processor Type	Intel Core i5		
Processor Speed	Min 2.4GHz		
Processor Bits	64-Bits		
Processor Threads	4		
No of Cores	2		
Type of RAM	DDR3L - 1600 (Transfer rates up to 1600 MT/s)		
No. of SPACKAGEs	Two SODIMM sPACKAGEs supporting dual-channel memory		
Installed RAM	08GB SODIMMs		
Type of memory	DDR3		
Storage	256GB SSD		
Display	12.3" (Diagonal) 3,000 x 2,000 (267 ppi) PixelSense		
External Display	Up to 32-bit per pixel colour depth		
Pen	1,024 levels of pressure sensitivity Magnetic storage or equivalent		
Key Board & Trackpad	Full-size, integrated backlit keyboard with 1.6mm key travel Precision trackpad with glass-laminated trackpad (7,350 sq. mm) Five-finger contact recognition with full Windows 10 support		
HDMI Port	HDMI port supports direct connection to high-definition displays with up to 1920 x 1200@60Hz resolution and 7-channel audio		
Network	802.11ac 2x2 MIMO Wi-Fi wireless networking; IEEE 802.11ac 2x2 MIMO Wi-Fi, Bluetooth 4.0 LE		
Security	TPM 2.0 chip for enterprise security		
Audio/Multimedia	❖ Dual microphones, front- and rear-facing Front-facing stereo speakers with Dolby® audio		

	❖ Function keys for microphone mute, volume up, and volume down		
Webcam	<ul style="list-style-type: none"> ❖ Windows 8MP rear-facing auto-focus camera (1080p HD), ❖ 5MP front-facing ❖ Hello face-authentication camera (1080p HD) 		
Finger Print	Yes		
Power Supply	45 W Smart AC Adopter		
Primary Battery	4-cell (44 W-Hr) Lithium-Ion battery		
Battery Life	Up to 16 hours		
Ports/SPACKAGEs	<ul style="list-style-type: none"> ❖ 2 x USB 3.0, ❖ mini DisplayPort, ❖ SD card reader, ❖ mini headphone/mic combo jack 		
Sensors	<ul style="list-style-type: none"> ❖ Ambient light sensor ❖ Accelerometer ❖ Gyroscope ❖ Magnetometer 		
Digital Media SPACKAGEs	Multi Media Reader SPACKAGE supporting SD, SDHC, and SDXC		
Operating system (OEM)	Latest Windows 10 Pro (64-bits) (OEM)		
Carrying Bag	According to the suggested model		
Accessories in the Box	<ul style="list-style-type: none"> ❖ Surface Book or Equivalent/similar ❖ Pen ❖ Keyboard ❖ Mouse ❖ Dial 		
Warranty	03 Years		