

TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS COMPLIANCE FORM

LOT NO.	SPECIFICATIONS	COMPLIANCE	
		Compliant	Non-compliant
A 1	Desktop - All-in-One PC Configuration (24 units)		
	• Intel Core i5 8th Gen		
	• 16GB DDR4, 2400 MHz 2666		
	• 512 Gb SSD		
	• Wireless LAN 802.11 ac + BT4.0		
	• Ports: LAN port, USB 3.0, Audio jack(s), Card reader, Video ports		
	• 23.8" Non-Touch		
	• Integrated HD Graphics		
	• Optical drive		
	• Genuine Microsoft Windows 10 Pro 64 bit		
	• USB Keyboard and Optical Mouse (same brand)		
	• Branded (Globally Known Brand)		
	• Warranty: 3 years Parts and Labor		
	• 650 VA UPS		
	• Warranty for the UPS: 2 years, battery: 1 year		
	• Complete documentation of all the components.		
	A 2	Notebook PC (25 units)	
a Windows Notebook			
• Intel Core i7 -8th Generation			
• 13.3 inch LED Anti-glare			
• 16GB DDR4 2400 SDRAM			
• 512 Gb SSD			
• Ports: 3.1 USB, USB-C, VGA/HDMI, RJ45, Audio combo jack (separate adaptors accepted)			
• 3 cell 44WHr Battery			
• HD Webcam			
• WLAN ac 2x2 + BT			
• Genuine Microsoft Windows 10 Pro 64 bit			
• Optical Mouse (same brand)			
• Branded (Globally Known Brand)			
• Warranty: 3 years Parts and Labor			
• With Carrying Case (Backpack type)			

b	macOS Notebook (2 units)		
	• 2.2GHz dual-core Intel Core i7 processor, Turbo Boost up to 3.2GHz		
	• 8GB 1600MHz LPDDR3 memory		
	• 128GB SSD storage		
	• Intel HD Graphics 6000		
	• Backlit Keyboard - US English		
	• 13.3-inch (diagonal) LED-backlit widescreen display		
	• Intel HD Graphics 6000		
	• Integrated 54-watt-hour lithium-polymer battery		
	• Two USB C ports, Thunderbolt supported		
	• 802.11ac Wi-Fi		
	• Bluetooth 4.0 wireless technology		
	• HD camera		
	• Multi-Touch trackpad		
	• SDXC card slot		
	• Warranty: 1 Year		
	• Carrying Case		
	• With Adaptor (HDMI, RJ45)		
3	PC Workstation (4 units)		
	• Intel Core i7-8th Gen or Intel Xeon CPU		
	• 16GB 2400 MHz DDR4 Non-ECC		
	• 1 TB SATA (7,200 Rpm) Hard Drive or 1 TB SSD		
	• 4 GB 3100 Graphics		
	• DVD Writer		
	• 10/100/1000, Integrated Gigabit Ethernet		
	• Ports: USB 3.0, Audio In/Out		
	• Integrated Intel SATA Controller		
	• Intel Wireless 8260 ac card		
	• 2 x 23" Full-HD Monitor		
	• Keyboard and Optical Mouse		
	• Genuine Microsoft Windows 10 Pro 64 bit		
	• Branded (Globally Known Brand)		
	• Warranty: 3 years parts and labor and service (3/3/3)		
	• 650 VA UPS		
	• Warranty for the UPS: 2 years, battery: 1 year		
	• Complete documentation of all the components.		
4	Mini Desktop (1 unit)		

	<ul style="list-style-type: none"> • Intel® Core™ i5-8100 Processor (3.6 GHz, 6 MB Cache, 4 core, 65W) + Intel® UHD Graphics 630 		
	<ul style="list-style-type: none"> • Form Factor – Mini Workstation 		
	<ul style="list-style-type: none"> • 8 GB (1 x 8 GB) DDR4-2666 SODIMM Memory 		
	<ul style="list-style-type: none"> • 1 TB 7200 RPM SATA 2.5" HDD 		
	<ul style="list-style-type: none"> • Integrated Intel® UHD Graphics 610 (included with Intel® Celeron® + Pentium® processors) 		
	<ul style="list-style-type: none"> • Intel® Wireless-AC (2x2) Gigabit Wi-Fi + Bluetooth 		
	<ul style="list-style-type: none"> • Ports: DisplayPort, Hdmi, LAN, VGA, USB-C (separate adaptors accepted) 		
	<ul style="list-style-type: none"> • USB Slim Wired Keyboard 		
	<ul style="list-style-type: none"> • Optical USB Wired Mouse 		
	<ul style="list-style-type: none"> • Windows 10 64 bit 		
	<ul style="list-style-type: none"> • 135 W External Power Supply 		
	<ul style="list-style-type: none"> • Three-year warranty 		
B	Plotter		
	(1 unit)		
	Print		
	<ul style="list-style-type: none"> • Line drawings: 26 sec/page on A1/D, 116 A1/D prints per hour 		
	<ul style="list-style-type: none"> • Print resolution: Up to 2400 x 1200 optimized dpi 		
	<ul style="list-style-type: none"> • Margins (top x bottom x left x right): Roll: 0.1 x 0.1 x 0.1 x 0.1 in (3 x 3 x 3 x 3 mm); Sheet: 0.1 x 0.67 x 0.1 x 0.1 in (3 x 17 x 3 x 3 mm) 		
	<ul style="list-style-type: none"> • Technology: Thermal Inkjet 		
	<ul style="list-style-type: none"> • Ink types: Dye-based (C, G, M, pK, Y); pigment-based (mK) 		
	<ul style="list-style-type: none"> • Ink drop: 6 pl 		
	<ul style="list-style-type: none"> • Printheads: 3 universal printheads, 2 colors each: mK-Y / C-M / G-pK 		
	<ul style="list-style-type: none"> • Printhead nozzles: 2112 each color 		
	<ul style="list-style-type: none"> • Minimum line width: 0.0008 in (0.02 mm) (PDF addressable @ 1200 dpi) 		
	<ul style="list-style-type: none"> • Warranty: One (1) year 		
	Media		
	<ul style="list-style-type: none"> • Handling: Sheet feed, roll feed, automatic cutter 		
	<ul style="list-style-type: none"> • Size: Rolls: 11 to 44 in (279 to 1118 mm); Sheets: 8.3 x 11 to 44 x 66 in (210 x 279 to 1118 x 1676 mm) Standard sheets: A, B, C, D, E (A4, A3, A2, A1, A0) 		
	<ul style="list-style-type: none"> • Margins (top x bottom x left x right): Roll: 0.1 x 0.1 x 0.1 x 0.1 in (3 x 3 x 3 x 3 mm); Sheet: 0.1 x 0.67 x 0.1 x 0.1 in (3 x 17 x 3 x 3 mm) 		
	<ul style="list-style-type: none"> • Thickness: Up to 31.5 mil (0.8 mm) 		
	Memory		
	<ul style="list-style-type: none"> • 128 GB virtual9 500 GB Self Encrypted hard disk (AES-256 Encrypted) 		
	Connectivity		
	<ul style="list-style-type: none"> • Interfaces: Ethernet, Fast Ethernet, Gigabit Ethernet, 10/100/1000Base-T, Ethernet (802.3, 802.3u, 802.3ab); USB Type-A host port 		

	<ul style="list-style-type: none"> • Print languages: Basic Printer: HP-GL/2, TIFF, JPEG, URF, CALS G4, PostScript Printer: Adobe PostScript 3, Adobe PDF 1.7 ext 3, HP-GL/2, TIFF, JPEG, URF, CALS G4 		
	<ul style="list-style-type: none"> • Printing paths: HP driver for Windows and MAC OS X, direct printing from USB flash drive, email printing, HP Smart app, HP Click printing software, HP Print Service for Android, Apple AirPrint driver 		
	Warranty		
	<ul style="list-style-type: none"> • Warranty: One (1) year 		
C	Barcode Printer		
1	(1 unit)		
	<ul style="list-style-type: none"> • Maximum speed 5 ips (127 mm/sec) 		
	<ul style="list-style-type: none"> • 203 dpi print resolution (8 dots/mm) 		
	<ul style="list-style-type: none"> • Thermal transfer (t) printing of bar codes, text, and graphics 		
	<ul style="list-style-type: none"> • EPL2 page mode programming language 		
	<ul style="list-style-type: none"> • 32 bit RISC processor 		
	<ul style="list-style-type: none"> • 8 MB Standard SDRAM memory (3 MB available to user) 		
	<ul style="list-style-type: none"> • 4 MB Standard Flash memory (1.5 MB available to user) 		
	<ul style="list-style-type: none"> • Triple communications interface: Serial, USB & Ethernet 		
	<ul style="list-style-type: none"> • Odometer for print length tracking 		
	<ul style="list-style-type: none"> • Unicode™ compliant for multi-language printing 		
	<ul style="list-style-type: none"> • Auto-calibration of media 		
	<ul style="list-style-type: none"> • 16 resident expandable bitmap fonts 		
	<ul style="list-style-type: none"> • One resident scalable font 		
	<ul style="list-style-type: none"> • Programmable print speed: 2, 3, 4 & 5 ips (51, 76, 102, 127 mm/sec) 		
	<ul style="list-style-type: none"> • Head-up sensor 		
	<ul style="list-style-type: none"> • Standard tear-off mode feature 		
	<ul style="list-style-type: none"> • Transmissive and reflective media sensing 		
	<ul style="list-style-type: none"> • Warranty: 1 year 		
	<ul style="list-style-type: none"> • Complete documentation of all the components. 		
2	Inkjet Printer		
	(1 unit)		
	<ul style="list-style-type: none"> • Printer Type: Print, Scan, Copy with ADF 		
	<ul style="list-style-type: none"> • Minimum Ink Droplet Volume: 3.3 pl 		
	<ul style="list-style-type: none"> • Print Direction: Bi-directional printing, Uni-directional printing 		
	<ul style="list-style-type: none"> • Nozzle Configuration: 400 nozzles Black, 128 nozzles per colour (Cyan, Magenta, Yellow) 		
	<ul style="list-style-type: none"> • Maximum Resolution: 4800 x 1200 dpi (with Variable-Sized Droplet Technology) 		
	<ul style="list-style-type: none"> • Automatic 2-sided printing: Yes (up to A4) 		
	<ul style="list-style-type: none"> • Print speed: Draft, A4 (Black / Colour): Up to 33 ppm1 / 20 ppm2 		
	ISO 24734, A4 Simplex (Black / Colour): Simplex: Up to 15 ipm / 8.0 ipm, Duplex: 6.5 ipm / 4.5 ipm		
	Photo Default - 10 x 15 cm / 4 x 6 " #2 #3: Approx. 69 sec per photo (Border) / 92 sec per photo (Borderless)		

	• Compact integrated tank design		
	• Print speeds up to 15 ipm for black and 8.0 ipm for colour		
	• Auto-duplex printing		
	• ADF capability		
	• Ethernet & Wi-Fi Direct		
	• Borderless Printing up to A4 size		
	• Spill-free ink refilling		
	• Warranty: 2 years or 50,000 pages, whichever comes first		
D	High Speed Scanner (1 unit)		
	• Document Scanner		
	• Up to 7,000 pges per day		
	• Optical resolution: 600 x 600 dpi		
	• Speed: 60 ppm - b&w 200/300 dpi; 60ppm - color 200dpi; 120 ipm - b&w 200/300dpi		
	120 ipm - color 200dpi; 40 ppm - color 300dpi; 80ipm - color 300dpi		
	• Interface type: usb 2.0, USB 3.0 compatible		
	• Max./Min. Supported Document Size: 216mm x 863mm (8.5x34 in.) / 50mm x 50mm (2 x 2 in.)		
	Long document mode: 216mm x 4,064mm (8.5 x 160 in.)		
	• Illumination: Dual indirect LED		
	• Paper Thickness and Weight: 34-413 g/m2 (9-110 lb.) paper; ID card thickness: up to 1.25mm (0.05 in.)		
	• Feeder: Up to 100 sheets of 80 g/m2 (20 lbs.) paper		
	• Multi-feed Detection: With ultrasonic technology		
	• File Format Outputs: Single and multi-page TIFF, JPEG, RTF, BMP, PDF, PDF searchable		
	• Scanning Technology: Dual CCD; Grayscale output bit depth is 256 levels (8-bit); color capture bit depth		
	48 bits (16x3); color output bit depth is 24 bits (8 x 3)		
	• Imaging Features: Barcode reading; Perfect Page Scanning; Deskew; Autocrop; Fixed cropping;		
	Relative cropping; Multi-lingual auto orientation; Orthogonal rotation; Intelligent image fill; Round/Rectangular Hole fill; Content or file size-based blank page removal		
	• Environmental Factors: EPEAT Registered; Energy STAR Qualified		
	• Operating System Compatibility: Windows 7, 8, 8.1, 10 (32 and 64 bit), LINUX, Mac OS		
	• Operator Control Panel: Graphical LCD Display		
	• 3 Yr. Warranty		
E	Projector (2 units)		
	• Resolution: WXGA		
	• Brightness: White Light Output (Normal/Eco) 4,200lm / 2,910lm		

	Colour Light Output: 4,200lm		
	• Contrast Ratio:3,000:1 (minimum)		
	• Screen Size (Projected Distance): Zoom: Wide: 29" - 280" [0.84m - 8.4m]		
	Zoom: Tele: 29" - 280" [1.36m -13.9m]		
	Standard size: 60" screen 1.79+C232m - 2.92m		
	• Zoom Ratio: 1 - 1.6		
	• Throw Ratio: 1.38 - 2.24 (Wide - Tele)		
	• Input interface: Analog: D-Sub 15 pin x 2, Component: D-sub 15pin Blue molding x 2		
	(in common with Analog RGB connector), Composite Video [RCA (Yellow) x 1] x 1,		
	Digital: HDMI x 1, Audio (Stereo mini jack); input x 2; output x 1, USB x 2		
	Network: Wired; Rj45 x 1 (10/100 Mbps), Wireless		
	• Sound Output: Monoaural: 10W x 1		
	• Warranty: Two (2) years on Main parts (NBDO)		
	1 Year warranty on bulb or 1000 hours		
	• Complete with VGA and HDMI cables, manuals and documentations		
	• With Soft Carry Case		
F	Layer 3 Network Switch (1 unit)		
	• Device type: Switch - 48 ports - L3 - Managed - stackable		
	• Enclosure type: Rack-mountable 1U		
	• Ports: 48 x 10/100/1000 + 4 x SFP		
	• Subtype: Gigabit Ethernet		
	• Features: ARP support, trunking, VLAN support, IGMP snooping, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, DHCP snooping, Port Aggregation Protocol (PAgP) support, Access Control List (ACL) support, Quality of Service		
	• Interfaces: 48 x 1000Base-T - RJ-45 1 x USB - Type A 1 x serial (console) - RJ-45 - management 1 x management (Gigabit LAN) - RJ-45 - management 1 x management (mini-USB) - Type B - management 4 x 1000Base-X - SFP - uplink		
	• MAC Address Table Size: 32000 entries		
	• Performance: Switching capacity: 176 Gbps Forwarding performance: 130.95 Mpps		
	• RAM: 4 GB		
	• Remote Management Protocol: SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, SSH, CLI		
	• Power: 250W AC Config 2 Power Supply with 250W AC Config 2 Secondary Power Supply		
	• Power Features: ARP support, trunking, VLAN support, IGMP snooping, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, DHCP snooping, Port Aggregation Protocol (PAgP) support, Access Control List (ACL) support, Quality of Service		
	• Warranty: Limited Lifetime Warranty		
	• Rack mounting kit included		

	• Installation and Configuration		
G	Enterprise Network Management System (1 lot)		
	Enterprise Management System (EMS) :		
	General:		
	For effective operations and management of IT Operations, there is a need for an industry-standard Enterprise Management System (EMS). Given the expanse and scope of the project, EMS becomes very critical for IT Operations and SLA Measurement. Some of the critical aspects that need to be considered for operations of IT setup of are:		
	a) Network Fault Management		
	b) Network Performance Management		
	c) Network Flow Traffic Monitoring		
	d) Application Performance Management		
	e) Server Performance Monitoring		
	f) Centralized Log Management		
	g) Centralized and Unified Dashboard		
	The Monitoring Solution should provide Unified Architectural design offering seamless common functions including but not limited to: <ul style="list-style-type: none"> • Event and Alarm management, • Auto-discovery of the IT environment, • Performance and availability management • Correlation and root cause analysis • Notifications • Reporting and analytics • Automation and Customization 		
	Consolidate IT event management activities into a single operations bridge that allows operator quickly identify the cause of the IT incident, reduces duplication of effort and decreases the time it takes to rectify IT issues.		
	The operator should be able to view/build correlation rules in a simple GUI based environment where the Operator should be able to correlate cross domain events		
	The solution shall provide future scalability of the whole system without major architectural changes.		
	The Solution shall be distributed, scalable, and multi-platform and open to third party integration such as Cloud, Virtualization, Database, Web Server, Application Server platforms etc.		
	All the required modules should be from same OEM and should be tightly integrated for single pane of glass view of enterprise monitoring		
	The solution must provide single integrated dashboard to provide line of business views and drill down capabilities to navigate technical operators right from services to last infrastructure components		
	Consolidated dashboard of the proposed EMS solution must be able to do dynamic service modelling of all business critical production services & use near-real time Service Model for efficient cross domain topology based event correlation.		
	DETAILED SPECIFICATIONS: EMS		
	Consolidated Dashboard		

	The platform must provide complete cross-domain visibility of IT infrastructure issues		
	The platform must consolidate monitoring events from across layers such as Network, Server, Application, Database etc.		
	The solution should support dynamic discovery to maintains Run-time Service Model accuracy e.g. virtualization and cloud		
	The solution must support custom dashboards for different role users such as Management, admin and report users		
	The solution must allow creating custom data widget to visualize data with user preferences		
	The solution must support multiple visualization methods such as gauge, grid, charts, Top N etc.		
	The proposed solution must support capacity views to find most consumed resources.		
	The solution should provide superior view of infrastructure health across system, networks, application and other IT Infrastructure components into a consolidated, central console		
	The solution should allow for customizable operator perspectives		
	Network Performance Management:		
	The proposed solution platform shall provide a single integrated solution for comprehensive management of the wired/wireless access, and rich visibility into connectivity and performance assurance issues.		
	The design functionality shall facilitate creation of templates used for monitoring key network resources, devices, and attributes. Default templates and best practice designs are provided for quick out-of-the- box implementation automating the work required to use OEM validated designs and best practices.		
	The proposed solution must provide comprehensive and integrated management of IT infrastructure components to maximize the availability of IT services and SLA performance.		
	The proposed solution must provide the complete view of the Topology and network elements. The NMS shall have the ability to include the network elements and the links in the visual/graphical map of the department. The visual maps shall display the elements in different colour depending upon the status of the element. It is preferable that green color for healthy and amber/yellow color for degraded condition and red for unhealthy condition is used.		
	The proposed solution must provide the visual presentation of the Network Element's status and the alarms. It shall also present the complete map of the network domain with suitable icons and in suitable color like green for healthy, red for non-operational, yellow for degraded mode of operation etc.		
	The proposed solution must provide the graphical layout of the network element with modules drawn using different colors to indicate their status		
	The proposed solution should have multiple alerting feature to get the notification via email, sms and third party systems		
	The solution must support custom device template to support Generic SNMP devices		
	The solution must provide discovery & inventory of heterogeneous physical network devices like Layer-2 & Layer-3 switches, Routers and other IP devices and do mapping of LAN & WAN connectivity with granular visibility up to individual ports level.		

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	It shall provide Real time network monitoring and Measurement off-end-to-end Network performance & availability to define service levels and further improve upon them.		
	System Performance Monitoring:		
	The solution should offer service driven operations management of the IT environment to manage distributed, heterogeneous systems - Windows, UNIX & LINUX from a single management station.		
	The solution should carry out automated probable cause analysis by picking up feeds from every infrastructure component being monitored and automating the correlation of these alarms Or events to point out the probable cause using remedy actions - E.g. pull the top 5 processes consuming most of the CPU when CPU alarm triggers		
	The solution should provide a centralized point of control with out-of-the-box policy-based management intelligence for easy deployment for the servers, operating systems, applications and services for correlating and managing all the IT infrastructure components of a business service		
	The solution shall be able to monitor Hypervisor host hardware status e.g. fans, disk, memory, CPU etc..		
	The solution must support SNMP v1-3, PowerShell, SSH, JDBC, HTTP, JMX, collected agents for monitoring various type of devices and systems		
	It should also be able to monitor various operating system parameters depending on the operating system being monitored.		
	The Proposed Performance Management must provide charts for all kinds of essential Health Reports.		
	The Systems and Distributed Monitoring (Operating Systems) of EMS should be able to monitor:		
	Processors: Each processor in the system should be monitored for CPU utilization. Current utilization should be compared against user-specified warning and critical thresholds. File Systems: Each file system should be monitored for the amount of file system space used, which is compared to user-defined warning and critical thresholds. System Processes: The System Management function should provide real-time collection of data from all system processes. This should identify whether or not an important process has stopped unexpectedly. Memory: The System Management function should monitor memory utilization and available swap space.		
	The solution should support Virtual platforms - VMware and Microsoft Hyper-V, Citrix Xen, AWS, Azure and provide capability to monitor both Microsoft .NET and J2EE applications from the same platform		
	Fault Management:-		
	The proposed solution must should provide out of the box root cause analysis with multiple root cause algorithms inbuilt for root cause analysis. It should also have a strong event correlation engine which can correlate the events on the basis of event pairing, event sequencing etc.		
	The proposed solution must support creating and monitoring of rising or falling thresholds with respect to basic key performance indicators for network, system and application infrastructures.		

	The solution should have predictive/proactive analytics and intelligence in-built into it so as to detect any anomaly before it could potentially hit the threshold thereby giving enough lead time to users to resolve the issues before the threshold is breached.		
	The solution must offer relevant remedy tools, graphs in context of a selected fault alarm/event		
	The Platform must support Event or Alarm Correlation integrations with service desk to trigger automated creation of incidents, problems management		
	The proposed solution must provide default event dashboard to identify, accept and assign generated alarms		
	Role-Based access control:-		
	The solution should have inbuilt role-based access module to enable multiple users with different groups to create dashboards specific to their department		
	The Solution should have way to control and define permission such as read/write for set of devices rather than all the devices for the ease of use.		
	EMS Other Key Requirements:-		
	The Solution should provide all the modules as a single monitoring engine to correlate events in real-time from Networks, Servers and Applications		
	The solution should be deployable on Linux operating systems to reduce the overall TCO		
	The solution license must support 10000 devices and should be extendable to 5000 additional devices without extra cost.		
	The solution should run without any propriety database license for datastore - Datastore must be bundled within EMS (E.g. popular time-series, no-sql, hbase based monitoring systems) to reduce the TCO		
	The solution must provide way to define key performance indicators (KPIs) within the Business Service Management module.		
	Per device, service/application, or per IP-Address licensing		
	SCOPE OF SERVICES:		
	Installation and configuration.		
	Initial deployment and configuration , commissioning, knowledge transfer & system turn over		
	Document provisioning: deployment plan, Scope of work, User acceptance test & technical report		
	FREE hands on technical training for 4 system administrators with provision of certificate of attendance		
	SUPPORT:		
	Inclusive of 1 year support which covers Unlimited 8x5 support: Phone, chat , remote & email support		
	Provide direct support for installation and upgrade		
H			
1	Adobe Creative Cloud (Additional) (3 lics)		
	Applications:		
	• For Teams - All apps: One desktop app, services and business features		

	• Image editing and compositing.		
	• Vector graphics and illustration.		
	• Page design, layout and publishing.		
	• Create, edit, and sign PDF documents and forms.		
	• Websites, app design, and coding.		
	• Rich interactive content across varied platform devices.		
	• Video production and editing.		
	• Cinematic visual effects and motion graphics.		
	• Audio for broadcast, video, and film		
	• File sync and share: 100 GB per user		
	• Desktop and mobile apps		
	• One (1) year subscription		
	• Commercially available with local support		
2	Adobe Indesign (Additional) (2 lics)		
	• Page design, layout and publishing.		
	• Export document as separate PDF pages		
	• New presets for mobile and tablet		
	• Richer analytics for Publish Online documents		
	• Create borders that enclose multiple paragraphs using Paragraph Border feature		
	• Create cross-reference by searching a particular paragraph from the list of paragraphs with the help of a search bar		
	• Create new document, with option to preview the document as changes made in the New Document dialog		
	• Add endnotes and quickly reference annotations within long documents		
	• Create a border around one or more paragraphs		
	• Set and modify object size and position across pages in a document		
	• Add text objects from InDesign documents to Creative Cloud libraries		
	• With option in the HTML export dialog which tells InDesign to not include classes in the HTML		
	• One (1) year subscription		
	• Commercially available with local support		
3	Adobe Acrobat (Additional) (5 lics)		
	• Approve with electronic signatures		
	• Combine files in PDF Portfolio		
	• Remove and redact information		
	• Meet PDF accessibility standards		
	• Edit text and images		
	• Convert PDF Files to Powerpoint		
	• Standardize routine PDF tasks		

	<ul style="list-style-type: none"> • Automate repetitive multistep tasks and share with others. 		
	<ul style="list-style-type: none"> • Turn scanned paper documents into instantly editable PDFs 		
	<ul style="list-style-type: none"> • Add audio, video, and interactive objects to PDFs 		
	<ul style="list-style-type: none"> • Prepare PDFs consistently with guided actions 		
	<ul style="list-style-type: none"> • Automatically optimize PDFs to reduce file size , or customize settings first 		
	<ul style="list-style-type: none"> • Redact to permanently remove sensitive information in PDFs 		
	<ul style="list-style-type: none"> • Index PDF files to speed search across document collections 		
	<ul style="list-style-type: none"> • with installation media 		
	<ul style="list-style-type: none"> • commercially available with local support 		
	<ul style="list-style-type: none"> • Perpetual License 		
4	Adobe Illustrator (Additional) (3 lics)		
	<ul style="list-style-type: none"> • With On-Screen controls 		
	<ul style="list-style-type: none"> • Can import multiple page PDFs. 		
	<ul style="list-style-type: none"> • Can merge data using CSV files. 		
	<ul style="list-style-type: none"> • Properties panel. With access to all of the controls in one place. 		
	<ul style="list-style-type: none"> • Puppet Warp. Transform vector graphics while maintaining a natural look. 		
	<ul style="list-style-type: none"> • Creates up to 1,000 artboards on a single canvas. 		
	<ul style="list-style-type: none"> • Stylistic sets: With predefined glyph alternates to an entire block of text. 		
	<ul style="list-style-type: none"> • Easier artboard organization. 		
	<ul style="list-style-type: none"> • SVG color fonts. 		
	<ul style="list-style-type: none"> • Variable fonts. 		
	<ul style="list-style-type: none"> • MacBook Pro Touch Bar support. 		
	<ul style="list-style-type: none"> • Text management in Creative Cloud Libraries 		
	<ul style="list-style-type: none"> • Easier image cropping. 		
	<ul style="list-style-type: none"> • Faster document creation. 		
	<ul style="list-style-type: none"> • With Color Theme panel. 		
	<ul style="list-style-type: none"> • One (1) year subscription 		
I	AutoCAD (Additional licenses)		
1	AutoCAD LT (3 licenses)		
	Features:		
	<ul style="list-style-type: none"> • Can compare and document the differences between 2 versions of a drawing, 		
	<ul style="list-style-type: none"> • Can save drawings from desktop to view and edit on web and mobile apps 		
	<ul style="list-style-type: none"> • With 2X faster zoom, pan, and change draw orders and layer properties, 		
	<ul style="list-style-type: none"> • Can publish design views of a drawing in a web browser for viewing and commenting, 		
	<ul style="list-style-type: none"> • Can create, edit, view, and share CAD drawings on mobile device with the mobile app, 		
	<ul style="list-style-type: none"> • With improve visuals with new flat-design icons and 4K enhancements, 		
	<ul style="list-style-type: none"> • Can access favorite tools easily, 		

	· Can easily access most frequently used content and tools with customizable tool palettes,		
	· With tools for corridor modelling		
	Technical Support		
	· Site visit by a qualified /certified application engineer when needed,		
	· Quarterly site visit for maintenance.		
	· One (1) year subscription		
2	AutoCAD Civil 3D (3 licenses)		
	Features		
	2D Drafting , drawing , and Annotation		
	· Can create single or multiline text (mtext) as a single text object.		
	· Can create tables with data and symbols in rows and columns, apply formulas, and link to a Microsoft Excel Spreadsheets		
	· Can create dimensions automatically,		
	· Can draw revision clouds around new changes in a drawing to quickly identify updates,		
	· Can specify the size of drawing sheet, add title block, and display multiple views,		
	· Can apply geometric and dimensional constraints to maintain relationships between drawing geometry,		
	· Can save views by name to easily return to a specific view for quick reference or for applying to layout viewports,		
	3D Modelling and Visualization		
	· Can create realistic 3D models of design using a combination of solid, surface, and mesh modelling tools,		
	· Can apply lighting and materials to give 3D models a realistic appearance and to help communicate designs,		
	· Create section planes to display cross-sectional views through solids, surfaces, meshes, or regions.,		
	· Can generate 2D drawings including base, projected, section, and detail views from 3D models.		
	· Can apply visual styles to control the display of edges, lighting, and shading of your 3D model.		
	Technical Support		
	· Site visit by a qualified /certified application engineer when needed,		
	· Quarterly site visit for maintenance.		
	• One (1) year subscription		

Notes:

1. All specifications are minimum requirements. Proponents may propose equivalent or higher specifications.
2. Dimensions (Length, Width and Height) may vary, as long as the total space occupied is equal to or smaller than those indicated in the technical specifications.

3. Clones will not be accepted. Please propose globally-known brand.
4. Full replacement of defective unit/s should be **30 working days** from receipt of notice. If full replacement is not yet possible, a service unit shall be provided by the supplier within 48 hours from receipt of notice of defective unit
5. The obligation for the warranty shall be covered by Retention money in an amount equivalent to at least one percent (1%) of every progress payment.
The said amounts shall only be released after the lapse of the warranty period indicated per item of the TOR.

Bidder's Authorized Representative:

Signature over Printed Name

Principal Bidder / Supplier