

JADUAL PEMATUHAN SPESIFIKASI TEKNIKAL PERKAKASAN

ARAHAN KEPADA PETENDER	
1)	Petender hendaklah menanda ✓ di ruangan 'Comply (Yes/No)' bagi setiap item.
2)	Petender hendaklah mengisi ruangan 'TENDERER'S PROPOSAL' dengan jelas, tepat dan terperinci bagi setiap spesifikasi dan keperluan minima yang disenaraikan di bawah.
3)	Petender hendaklah melengkapkan Jadual Pematuhan Spesifikasi Teknikal Perkakasan bagi setiap perkakasan yang dicadangkan.
4)	Petender hendaklah mengambil kira perkara-perkara yang dinyatakan dalam skop kerja di dalam Seksyen B.

NO.	ITEMS	REQUIREMENT SPECIFICATION	MANDATORY	COMPLIANCE	TENDER'S PROPOSAL
		PLATFORM -> ANDROID			
1.0	Brand	Samsung Galaxy Note 8			
1.1	Announced and launched	2017, August (Available, Released 2017 , September)			
1.2	Network - Technology	Technology: GSM / HSPA / LTE 2G bands: - GSM 850 / 900 / 1800 / 1900 - SIM 1 & SIM 2 (dual-SIM model only)			

		<p>3G bands:</p> <ul style="list-style-type: none"> - HSDPA 850 / 900 / 1900 / 2100 <p>4G bands:</p> <ul style="list-style-type: none"> - LTE <p>Speed:</p> <ul style="list-style-type: none"> - HSPA 42.2/5.76 Mbps, LTE-A (4CA) Cat16 1024/150 Mbps <p>GPRS:</p> <ul style="list-style-type: none"> - Yes <p>EDGE:</p> <ul style="list-style-type: none"> - Yes 			
1.3	Body	<p>Dimensions:</p> <ul style="list-style-type: none"> - 162.5 x 74.8 x 8.6 mm (6.40 x 2.94 x 0.34 in) <p>Weight:</p> <ul style="list-style-type: none"> - 195 g (6.88 oz) <p>Build :</p> <ul style="list-style-type: none"> - Corning Gorilla Glass 5 back panel <p>SIM :</p>			

		<ul style="list-style-type: none"> - Single SIM (Nano-SIM) or Hybrid Dual SIM (Nano-SIM, dual stand-by) - IP68 certified - dust/water proof over 1.5 meter and 30 minutes - Stylus - Samsung Pay (Visa, MasterCard certified) 			
1.4	Display	<p>Type :</p> <ul style="list-style-type: none"> - Super AMOLED capacitive touchscreen, 16M colors <p>Size:</p> <ul style="list-style-type: none"> - 6.3 inches (~83.2% screen-to-body ratio) <p>Resolution:</p> <ul style="list-style-type: none"> - 1440 x 2960 pixels (~521 ppi pixel density) <p>Multitouch:</p> <ul style="list-style-type: none"> - Yes <p>Protection:</p> <ul style="list-style-type: none"> - Corning Gorilla Glass 5 <ul style="list-style-type: none"> - HDR10 compliant - 3D Touch (home button only) 			

		- Always-on display			
1.5	Platform	<p>OS:</p> <ul style="list-style-type: none"> - Android 7.1.1 (Nougat) <p>Chipset:</p> <ul style="list-style-type: none"> - Exynos 8895 Octa - EMEA <p>Qualcomm MSM8998 Snapdragon 835 - USA & China</p> <p>CPU:</p> <ul style="list-style-type: none"> - Octa-core (4x2.3 GHz & 4x1.7 GHz) – EMEA - Octa-core (4x2.35 GHz Kryo & 4x1.9 GHz Kryo) - USA & China <p>GPU:</p> <ul style="list-style-type: none"> - Mali-G71 MP20 - EMEA <p>Adreno 540 - USA & China</p>			
1.6	Memory	<p>Card slot - microSD, up to 256 GB (dedicated slot) - single-SIM model</p> <p>microSD, up to 256 GB (uses SIM 2 slot) - dual-SIM model</p> <p>Internal - 64/128/256 GB, 6 GB RAM</p>			
1.7	Camera	<p>Primary:</p> <ul style="list-style-type: none"> - Dual 12 MP (26mm, f/1.7, PDAF & 52mm, f/2.4, AF), OIS, autofocus, 2x optical zoom, dual-LED (dual tone) flash, check quality <p>Features:</p>			

		<ul style="list-style-type: none"> - 1/2.55" sensor size, 1.4 µm pixel size @ 26 mm - 1/3.6" sensor size, 1.0 µm pixel size @ 52 mm - Geo-tagging, simultaneous 4K video and 9MP image recording, touch focus, face/smile detection, Auto HDR, panorama <p>Video:</p> <ul style="list-style-type: none"> - 2160p@30fps, 1080p@60fps, 720p@240fps, HDR, dual-video rec., check quality <p>Secondary:</p> <ul style="list-style-type: none"> - 8 MP, f/1.7, autofocus, 1/3.6" sensor size, 1.22 µm pixel size, 1440p@30fps, dual video call, Auto HDR 			
1.8	Sound	<p>Alert types:</p> <ul style="list-style-type: none"> - Vibration; MP3, WAV ringtones <p>Loudspeaker:</p> <ul style="list-style-type: none"> - Yes <p>3.5mm jack:</p> <ul style="list-style-type: none"> - Yes 			

		<ul style="list-style-type: none"> - 32-bit/384kHz audio - Active noise cancellation with dedicated mic 			
1.9	Comms	<p>WLAN:</p> <ul style="list-style-type: none"> - Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot <p>Bluetooth:</p> <ul style="list-style-type: none"> - 5.0, A2DP, EDR, LE <p>GPS:</p> <ul style="list-style-type: none"> - Yes, with A-GPS, GLONASS, BDS, GALILEO <p>NFC:</p> <ul style="list-style-type: none"> - Yes <p>Radio:</p> <ul style="list-style-type: none"> - No <p>USB:</p> <ul style="list-style-type: none"> - 3.1, Type-C 1.0 reversible connector 			
1.10	Features	<p>Sensors :</p> <ul style="list-style-type: none"> - Iris scanner, fingerprint (rear-mounted), accelerometer, gyro, proximity, compass, barometer, heart rate, SpO2 <p>Messaging:</p>			

		<ul style="list-style-type: none"> - SMS(threaded view), MMS, Email, Push Mail, IM <p>Browser:</p> <ul style="list-style-type: none"> - HTML5 <p>Java:</p> <ul style="list-style-type: none"> - No <ul style="list-style-type: none"> - Samsung Desktop Experience support - Fast battery charging (Quick Charge 2.0) - Qi/PMA wireless charging (market dependent) - ANT+ support - Bixby natural language commands and dictation - MP4/DivX/XviD/WMV/H.265 player - MP3/WAV/WMA/eAAC+/FLAC player - Photo/video editor - Document editor 			
1.11	Battery	<p>Non-removable Li-Ion 3300 mAh battery</p> <p>Talk time:</p>			

		<ul style="list-style-type: none"> - Up to 22 h (3G) <p>Music play:</p> <ul style="list-style-type: none"> - Up to 74 h 			
1.12	Misc	<p>Colors:</p> <ul style="list-style-type: none"> - Midnight Black, Maple Gold, Orchid Grey, Deep Sea Blue, Star Pink (Taiwan only) <p>Price:</p> <ul style="list-style-type: none"> - About 1000 EUR (RM 4,985.64) 			
1.13	Test	<p>Performance:</p> <ul style="list-style-type: none"> - Basemark OS II: 3374 / Basemark OS II 2.0: 3333 Basemark X: 40890 <p>Display:</p> <ul style="list-style-type: none"> - Contrast ratio: Infinite (nominal), 4.148(sunlight) <p>Camera:</p> <ul style="list-style-type: none"> - Photo / Video <p>Loudspeaker:</p> <ul style="list-style-type: none"> - Voice 67dB / Noise 69dB / Ring 71dB <p>Audio quality:</p>			

		<ul style="list-style-type: none"> Noise -92.5dB / Crosstalk -93.2dB <p>Battery life:</p> <ul style="list-style-type: none"> Endurance rating 89h 			
2.0		Platform -> IOS			
2.1	Brand	Iphone 8			
2.2	Announced and launched	<p>Announced:</p> <ul style="list-style-type: none"> 2017, September <p>Status:</p> <ul style="list-style-type: none"> Available. Released 2017, September 			
2.3	Network	<p>Technology:</p> <ul style="list-style-type: none"> GSM / CDMA / HSPA / EVDO / LTE <p>2G bands:</p> <ul style="list-style-type: none"> GSM 850 / 900 / 1800 / 1900 CDMA 800 / 1900 / 2100 - A1863 <p>3G bands:</p> <ul style="list-style-type: none"> HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100 - A1863, A1905 CDMA2000 1xEV-DO & TD-SCDMA - A1863 <p>4G bands:</p> <ul style="list-style-type: none"> LTE band 1(2100), 2(1900), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 12(700), 13(700), 17(700), 18(800), 19(800), 20(800), 25(1900), 26(850), 28(700), 29(700), 30(2300), 34(2000), 38(2600), 39(1900), 40(2300), 41(2500), 66(1700/2100) - A1863, A1905 			

		<p>LTE band 1(2100), 2(1900), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 11(1500), 12(700), 13(700), 17(700), 18(800), 19(800), 20(800), 21(1500), 25(1900), 26(850), 28(700), 22(3500), 29(700), 30(2300), 34(2000), 38(2600), 39(1900), 40(2300), 41(2500), 42(3500), 66(1700/2100) - A1906</p> <p>Speed:</p> <ul style="list-style-type: none"> - HSPA 42.2/5.76 Mbps, LTE-A (4CA) Cat16 1024/150 Mbps, EV-DO Rev.A 3.1 Mbps <p>GPRS:</p> <ul style="list-style-type: none"> - Yes <p>EDGE:</p> <ul style="list-style-type: none"> - Yes 			
2.4	Body	<p>Dimensions:</p> <ul style="list-style-type: none"> - 138.4 x 67.3 x 7.3 mm (5.45 x 2.65 x 0.29 in) <p>Weight:</p> <ul style="list-style-type: none"> - 148 g (5.22 oz) <p>SIM:</p> <ul style="list-style-type: none"> - Nano-SIM <ul style="list-style-type: none"> - IP67 certified - dust and water resistant - Water resistant up to 1 meter and 30 minutes - Apple Pay (Visa, MasterCard, AMEX certified) 			

2.5	Display	<p>Type:</p> <ul style="list-style-type: none"> - LED-backlit IPS LCD, capacitive touchscreen, 16M colors <p>Size:</p> <ul style="list-style-type: none"> - 4.7 inches (~65.4% screen-to-body ratio) <p>Resolution:</p> <ul style="list-style-type: none"> - 750 x 1334 pixels (~326 ppi pixel density) <p>Multitouch:</p> <ul style="list-style-type: none"> - Yes <p>Protection:</p> <ul style="list-style-type: none"> - Ion-strengthened glass, oleophobic coating - Wide color gamut display - 3D Touch display & home button - True-tone display 			
2.6	Platform	<p>OS:</p> <ul style="list-style-type: none"> - iOS 11 <p>Chipset:</p> <ul style="list-style-type: none"> - Apple A11 Bionic <p>CPU:</p> <ul style="list-style-type: none"> - Hexa-core (2x Monsoon + 4x Mistral) 			

		GPU: - Apple GPU (three-core graphics)			
2.7	Memory	Card slot: - No Internal: - 64/256 GB, 2 GB RAM			
2.8	Camera	Primary: - 12 MP, f/1.8, 28mm, phase detection autofocus, OIS, quad-LED (dual tone) flash Features: - Geo-tagging, simultaneous 4K video and 8MP image recording, touch focus, face/smile detection, HDR (photo/panorama) Video: - 2160p@24/30/60fps, 1080p@30/60/120/240fps Secondary: - 7 MP, f/2.2, 1080p@30fps, 720p@240fps, face detection, HDR, panorama			
2.9	Sound	Alert types: - Vibration, proprietary ringtones Loudspeaker: - Yes, with stereo speakers 3.5mm jack: - No			

		<ul style="list-style-type: none"> - Active noise cancellation with dedicated mic - Lightning to 3.5 mm headphone jack adapter 			
2.10	Comms	<p>WLAN:</p> <ul style="list-style-type: none"> - Wi-Fi 802.11 a/b/g/n/ac, dual-band, hotspot <p>Bluetooth:</p> <ul style="list-style-type: none"> - 5.0, A2DP, LE <p>GPS:</p> <ul style="list-style-type: none"> - Yes, with A-GPS, GLONASS, BDS, GALILEO <p>NFC:</p> <ul style="list-style-type: none"> - Yes (Apple Pay only) <p>Radio:</p> <ul style="list-style-type: none"> - No <p>USB:</p> <ul style="list-style-type: none"> - 2.0, reversible connector 			
2.11	Features	<p>Sensors:</p> <ul style="list-style-type: none"> - Fingerprint (front-mounted), accelerometer, gyro, proximity, compass, barometer <p>Messaging:</p> <ul style="list-style-type: none"> - iMessage, SMS (threaded view), MMS, Email, Push Email <p>Browser:</p>			

		<ul style="list-style-type: none"> - HTML5 (Safari) <p>Java:</p> <ul style="list-style-type: none"> - No <ul style="list-style-type: none"> - Fast battery charging: 50% in 30 min - Qi wireless charging - Siri natural language commands and dictation - iCloud cloud service - MP3/WAV/AAX+/AIFF/Apple Lossless player - MP4/H.264 player - Audio/video/photo editor - Document editor 			
2.12	Battery	<p>Non-removable Li-Ion 1821 mAh battery (6.96 Wh)</p> <p>Talk time:</p> <ul style="list-style-type: none"> - Up to 14 h (3G) <p>Music play:</p> <ul style="list-style-type: none"> - Up to 40 h 			
2.13	Misc	<p>Colors:</p> <ul style="list-style-type: none"> - Silver, Space Gray, Gold <p>SAR:</p> <ul style="list-style-type: none"> - 1.32 W/kg (head) 1.36 W/kg (body) <p>SAR EU:</p> <ul style="list-style-type: none"> - 1.19 W/kg (head) 1.17 W/kg (body) <p>Price:</p> <ul style="list-style-type: none"> - About 800 EUR (RM 3988.67) 			

3.0		Platform->IOS (tablet)			
3.1	Brand	Ipad Pro			
3.2	Announced and launched	<p>Announced:</p> <ul style="list-style-type: none"> - 2017, June <p>Status:</p> <ul style="list-style-type: none"> - Available. Released 2017, June 			
3.3	Body	<p>Dimensions:</p> <ul style="list-style-type: none"> - 305.7 x 220.6 x 6.9 mm (12.04 x 8.69 x 0.27 in) <p>Weight:</p> <ul style="list-style-type: none"> - 677 g (Wi-Fi) / 692 g (LTE) (1.49 lb) <p>SIM:</p> <ul style="list-style-type: none"> - Nano-SIM/ Electronic SIM card (Apple e-SIM) <p>- Stylus</p>			
3.4	Display	<p>Type:</p> <ul style="list-style-type: none"> - LED-backlit IPS LCD, capacitive touchscreen, 16M colors <p>Size:</p> <ul style="list-style-type: none"> - 12.9 inches (~76.4% screen-to-body ratio) <p>Resolution:</p> <ul style="list-style-type: none"> - 2732 x 2048 pixels (~265 ppi pixel density) <p>Multitouch:</p> <ul style="list-style-type: none"> - Yes 			

		Protection: - Scratch-resistant glass, oleophobic coating - True-tone display			
3.5	Platform	OS: - iOS 10.3.2, upgradable to iOS 11 Chipset: - Apple A10X Fusion			
3.6	Memory	Card slot: - No Internal: - 64/256/512 GB, 4GB RAM			
3.7	Camera	Primary: - 12 MP, f/1.8, phase detection autofocus, OIS, quad-LED (dual tone) flash Features: - 1/3" sensor size, geo-tagging, simultaneous 4K video and 8MP image recording, touch focus, face/smile detection, HDR (photo/panorama) Video: - 2160p@30fps, 1080p@30/60fps, 1080p@120fps, 720p@240fps			

		Secondary: <ul style="list-style-type: none"> - 7 MP, f/2.2, 32mm, 1080p@30fps, 720p@240fps, face detection, HDR, panorama 			
3.8	Sound	Alert types: <ul style="list-style-type: none"> - Vibration; Ringtones Loudspeaker: <ul style="list-style-type: none"> - Yes, with stereo speakers (4 speakers) 3.5mm jack: <ul style="list-style-type: none"> - Yes <ul style="list-style-type: none"> - Active noise cancellation with dedicated mic 			
3.9	Comms	WLAN: <ul style="list-style-type: none"> - Wi-Fi 802.11 a/b/g/n/ac, dual-band, hotspot Bluetooth: <ul style="list-style-type: none"> - 4.2, A2DP, EDR GPS: <ul style="list-style-type: none"> - Yes, with A-GPS, GLONASS (Wi-Fi + Cellular model only) NFC: <ul style="list-style-type: none"> - NFC Radio: <ul style="list-style-type: none"> - No USB:			

		<ul style="list-style-type: none"> - 3.0, reversible connector; magnetic connector 			
3.10	Features	<p>Sensors:</p> <ul style="list-style-type: none"> - Fingerprint (front-mounted), accelerometer, gyro, compass, barometer <p>Messaging:</p> <ul style="list-style-type: none"> - iMessage, Email, Push Email, IM <p>Browser:</p> <ul style="list-style-type: none"> - HTML5 (Safari) <p>Java:</p> <ul style="list-style-type: none"> - No <ul style="list-style-type: none"> - Siri natural language commands and dictation - iCloud cloud service - MP3/WAV/AAX+/AIFF/Apple Lossless player - MP4/H.264 player - Audio/video/photo editor - Document editor 			
3.11	Battery	<p>Non-removable Li-Ion battery (41 Wh)</p> <p>Talk time:</p> <ul style="list-style-type: none"> - Up to 10 h (multimedia) 			
3.12	Misc	<p>Colors:</p> <ul style="list-style-type: none"> - Space Gray, Gold, Silver <p>Price:</p> <ul style="list-style-type: none"> - About 900 EUR (RM 4487.25) 			

Calculations for all three devices:

No.	Brand	Price per unit	Qty	Price
1.	Samsung Galaxy Note 8	RM 4985.64	40	RM 199,425.60
2.	Iphone 8	RM 3988.67	40	RM 159,546.80
3.	Ipad Pro	RM 4487.25	40	RM 179,490.00
TOTAL				RM 538,462.40

Samsung Galaxy Note 8 – RM 4985.64 x 40 units

= RM 199,425.60

Iphone 8 – RM 3988.67 x 40 units

= RM 159,546.80

Ipad Pro – RM 4487.25 x 40 units

= RM 179,490.00