PERKHIDMATAN MEMBEKAL ,MEMASANG ,MENGKONGFIGURASI,MENGUJILARI DAN MENTAULIAH TALIAN INTERNET BAGI ISKANDAR PUTERI COMMAND AND CONTROL CENTRE (IPCC) MAJLIS BANDARAYA ISKANDAR PUTERI BAGI TEMPOH SEWAAN 36 BULAN

SPESIFIKASI TEKNIKAL

BIL.	BAHAGIAN	MUKA SURAT
A	**DEDICATED INTERNET ACCESS WITH MINIMUM 200 MBPS**	2/% P%

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11.11.2026

BIL.	SPESIFIKASI	YA	TIDAK	CATATAN
A	**DEDICATED INTERNET ACCESS WITH MINIMUM 200 MBPS**			

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A.1	**Kerja-kerja membekal, menghantar, memasang, mengkonfigurasi sewaan talian internet dengan kelajuan minima 200 Mbps di IPCC** Spesifikasi adalah seperti berikut:			

1	**Talian Internet 24 Jam dengan kelajuan minima 200 Mbps secara *Metro-Ethernet*** *A dedicated 24-hour 200Mbps INTERNET access via Metro Ethernet technology connectivity.*
2	**Talian internet dapat membekalkan *full duplex low latency* ke rangkaian pembekal dengan melalui laluan bawah tanah (Fiber Optic) daripada ICCC , MBIP Server Room terus ke pusat utama rangkaian pihak pembekal bagi memastikan kualiti servis dan kurang gangguan** *The Internet line shall provide full duplex low latency to the Tenderer's network. The provisioning of Internet access shall be on land-line (fiber optics) from ICCC, MBIP server room to Tenderer's Main Network Center to ensure quality of services and minimum disruption.*
3	**Dapat menyokong spesifikasi servis *Layer 3:*** • ***IPv6/BGPv4 peering*** • ***IPv4/BGPv4 peering*** • ***All BGP traffic engineering attributes*** • ***MD5 authentication*** *The Tenderer shall be able to support the following Layer 3 services:* *â?¢ IPv6/BGPv4 peering* *â?¢ IPv4/BGPv4 peering* *â?¢ All BGP traffic engineering attributes* *â?¢ MD5 authentication*
4	**Pihak Pembekal dapat membekalkan *Service Level Agreement* (*SLA)* bagi liputan akses internet mengikut kepada ciri-ciri berkenaan tetapi tidak terhad kepada ciri ciri berkenaan:** • ***Service availability - 99.7% monthly*** • ***Fault acknowledgement - < 1 hour*** • ***Mean Time To Restore (MTTR) - 4 hours (max)*** • ***Effective bandwidth throughput shall be more than 90% of the subscribed bandwidth 24 x7*** *The Tenderer shall provide the SLA for Internet Access connectivity based on but not limited to the following criteria:* • *Service availability - 99.7% monthly* • *Fault acknowledgement - < 1 hour* • *Mean Time To Restore (MTTR) - 4 hours (max)* • *Effective bandwidth throughput shall be more than 90% of the subscribed bandwidth 24 x7*
5	**Pihak Pembekal seharusnya mempunyai dedicated internet (tidak berkongsi dengan internet service provider yang lain) dengan kelajuan minima 100Gbps *backbone ke Internet Global Community* bagi memastikan servis kualiti ke ICCC, MBIP dan kerja-kerja naiktaraf pada masa hadapan** *Tenderer shall have dedicated (**not to be shared with other ISP**) of minimum 100Gbps backbone to the Global Internet Community to ensure quality of service to ICCC, MBIP and to cater future ICCC, MBIP upgrades requirement*
6	**Bandwidth akses adalah minima 200 Mbps namun boleh dinaiktaraf sehingga 500 Mbps** *The bandwidth requirement for the Access is minimum 200Mbps, upgradeable to 500Mbps.*
7	**Pihak pembekal dapat membekalkan sekurang-kurangnya 16 Public IP seperti diperlukan oleh IPCC** *Tenderer should provide at least 16 Public IP required by ICCC, MBIP*
8	Dapat menyediakan *dedicated router* bagi servis internet di ICCC, MBIP *Tenderer shall provide a dedicated router for Internet service to ICCC, MBIP*
9	**Pengusulan talian berkenaan sepatutnya dapat menyokong dan membawa trafik IPV4 dan IPV6** *The proposed connectivity shall be able to support and transport IPv4 and IPv6 traffic*
10	**Akses berkenaan dituju terus ke ICCC MBIP Access Node bergantung kepada Pusat Utama Rangkaian Pembekal (1-to-1 bandwidth oversubscription ration) dan tidak boleh dikongsi dengan pihak lain** *The access shall be dedicated for ICCC, MBIP Access Node up to Tenderer's Main Network Center (1-to-1 bandwidth oversubscription ration) and shall not be share with other customer or oversubscribed.*
11	**Laluan akses perlu melalui dua laluan bagi mencapai sasaran SLA. Dua laluan berkenaan boleh dihubungkan melaui akses node yang berbeza. Laluan ini turut disarankan dapat menahan sebarang *redudancy.***

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