

**KERJA-KERJA MEMBEKAL, MEMASANG, MENGUJI, MENTAULIAH DAN MENYELENGGARA (DALAM TEMPOH JAMINAN)
PERKAKASAN DAN PERISIAN LED BILLBOARD DI DATARAN ISKANDAR PUTERI**

SPESIFIKASI TEKNIKAL

| BIL. | BAHAGIAN | MUKA SURAT |
|-------------|---|-------------------|
| A | 1.0 KERJA-KERJA DAN KOS AWALAN | 2/0% P% |
| B | 2.0 KERJA MEMBUAT BINAAN STRUKTUR DAN CIVIL DIGITAL BILLBOARD | 3/0% P% |
| C | 3.0 KERJA SISTEM ELEKTRIKAL DAN KAWALAN SISTEM KOMPUTER | 4/0% P% |
| D | 4.0 KERJA KOMUNIKASI | 7/0% P% |
| E | 5.0 LAIN-LAIN KERJA BERKAITAN | 8/0% P% |

| BIL. | SPEKIFIKASI | YA | TIDAK | CATATAN |
|---------|--|----|-------|---------|
| A | 1.0 KERJA-KERJA DAN KOS AWALAN | | | |
| A.1 | 1.1 Mengemukakan <i>construction drawing</i> kepada pegawai pelaksana dan mendapatkan pengesahan sebelum memulakan projek. Menyediakan dan meletakkan papan tanda amaran atau keselamatan di atas jalanraya dengan bilangan secukupnya. a) Awas b) Kerja-kerja sedang dilaksanakan c) Lencongan di hadapan dan lain-lain d) Peralatan Keselamatan Diri Yang Bersesuaian (Safety helmet, safety vest, safety shoes, dan lain-lain) | | | |
| A.1.1 | 1.2 Polisi Insuran <i>Contractor All Risk</i> | | | |
| A.1.1.1 | 1.3 Polisi Insuran <i>Worksmen Compensation</i> | | | |
| A.1.1.2 | 1.4 Akta Keselamatan Sosial Pekerja 1969 (SOCSO). Resit hendaklah dikemukakan semasa tuntutan dibuat. | | | |
| A.1.1.3 | 1.5 Menyedia dan selenggara buku harian tapak serta kemaskini sepanjang tempoh kontrak dan diserahkan selepas siap | | | |
| A.1.1.4 | 1.6 Menyediakan gambar kemajuan kerja berserta tarikh SEBELUM, SEMASA dan SELEPAS SIAP dalam bentuk <i>hard copy</i> sebanyak 3 salinan berwarna dan 1 salinan dalam bentuk <i>soft copy</i> (pendrive) | | | |
| A.1.1.5 | 1.7 Bekal dan pasang papan tanda piawai projek dengan saiz dan butiran yang diluluskan sepertimana perincian lukisan dan membuka semula setelah kerja disiapkan (Rujukan Pelan Yang Dilampirkan) | | | |
| A.1.1.6 | 1.8 Dokumen Kontrak <i>Hard Cover</i> termasuk penyediaannya sebanyak 5 salinan termasuk stamping | | | |
| A.1.1.7 | 1.9 Menyediakan <i>Operation Maintenance Manual (OMM)</i> selepas siap kerja dan disemak oleh pihak pentadbiran MBIP berserta pelan lakaran dan pelan skematik. | | | |
| A.1.1.8 | 1.11 Menyediakan lukisan lengkap berserta dengan pengesahan dari jurutera yang bertauliah Civil & Structure (C & S) berserta dengan 2 set <i>softcopy & hardcopy</i> | | | |
| A.1.1.9 | 1.12 Penyediaan <i>hoarding board</i> semasa kerja dilaksanakan termasuk pembersihan tapak selepas siap. | | | |
| A.1.2 | 1.10 Menyediakan laporan dan kerja-kerja pengujian tanah berserta keputusan pengujian dari jurutera yang bertauliah. | | | |

| BIL. | SPESIFIKASI | YA | TIDAK | CATATAN |
|------|---|----|-------|---------|
| B | 2.0 KERJA MEMBUAT BINAAN STRUKTUR DAN CIVIL DIGITAL BILLBOARD | | | |
| B.1 | <p data-bbox="215 230 247 253">2.1</p> <div data-bbox="300 271 962 481" style="border: 1px solid black; padding: 10px;"> <p data-bbox="311 293 951 376">Membekal dan memasang struktur tiang <i>Hot Dipped Galvanised</i> (HDG) berketinggian 3.6 meter termasuk kerja-kerja <i>piling</i> serta <i>formwork</i> bagi penyediaan tapak konkrit dan segala lain keperluan yang berkaitan untuk pemasangan base struktur di tapak projek dan kelengkapan jentera termasuk pemasangannya.</p> <p data-bbox="336 423 925 465">Nota : Kontraktor hendaklah memastikan pengujian dan konfigurasi skrin LED dan perisian yang berkaitan dilaksanakan.</p> </div> | | | |

| BIL. | SPESIFIKASI | YA | TIDAK | CATATAN |
|---------|--|----|-------|---------|
| C | 3.0 KERJA SISTEM ELEKTRIKAL DAN KAWALAN SISTEM KOMPUTER | | | |
| C.1 | 3.1 <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> Membekal dan memasang MCCB 100 Amp serta kerja berkaitan bagi melengkapkan pemasangan. </div> | | | |
| C.1.1 | 3.2 <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> Menyedia, membekal dan memasang bekalan kuasa <i>feeder pillar</i> 100 Amp kepada perkakasan dan perisian operasi LED termasuk <i>computer server and router</i> (termasuk kos penghantaran / pengangkutan dan segala pemasangannya). </div> | | | |
| C.1.1.1 | 3.3 Kerja kerja membekal dan merentang cable 4 Core x 35mm ² PVC/SWA/PVC (Cu) dari bilik MSB ke feeder pillar dan ke LED billboard termasuk kerja mengorek, pengemasan semula seperti asal dan kerja kerja berkaitan bagi melengkapkan pemasangan. | | | |

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| C.2 | <p data-bbox="215 185 646 208">3.4 OUTDOOR LED BILLBOARD SPECIFICATION</p> <table border="1" data-bbox="300 226 959 2235"> <tr> <td data-bbox="300 226 916 342"> <p data-bbox="331 241 890 286">Harga termasuk <i>outdoor LED Display Board</i>. <i>Pixel, LED Display Size, Service cabinet, Display Elements</i> dengan ukuran Outdoor LED Display Board</p> <p data-bbox="528 302 692 324">LED Display Size/Set :</p> </td> <td data-bbox="916 226 959 342"></td> </tr> <tr> <td data-bbox="300 342 916 376"> <p data-bbox="507 344 713 367">9600mm (W) x 5760mm (H)</p> </td> <td data-bbox="916 342 959 376"></td> </tr> <tr> <td data-bbox="300 376 916 434"> <ul data-bbox="571 392 713 414" style="list-style-type: none"> • 30ft (W) x 20ft (H) </td> <td data-bbox="916 376 959 434"></td> </tr> <tr> <td data-bbox="300 434 916 492"> <ul data-bbox="491 450 794 472" style="list-style-type: none"> • Resolution : 960 (Hor) x 576 (Ver) pixels </td> <td data-bbox="916 434 959 492"></td> </tr> <tr> <td data-bbox="300 492 916 551"> <ul data-bbox="539 508 751 530" style="list-style-type: none"> • Pitch : not more than 10mm </td> <td data-bbox="916 492 959 551"></td> </tr> <tr> <td data-bbox="300 551 916 667"> <ul data-bbox="395 566 890 611" style="list-style-type: none"> • LED SCREEN BRAND : LEDSIGN (Malaysia Local Product) ATAU SETARA DENGANNYA </td> <td data-bbox="916 551 959 667"></td> </tr> <tr> <td data-bbox="300 667 916 725"> <ul data-bbox="395 683 916 705" style="list-style-type: none"> • Chip of LED : OUTDOOR NHV10 8,500 nits High Brightness </td> <td data-bbox="916 667 959 725"></td> </tr> <tr> <td data-bbox="300 725 916 784"> <ul data-bbox="491 741 826 763" style="list-style-type: none"> • LED Per Pixel : SMD10 NHV10 10mm Series </td> <td data-bbox="916 725 959 784"></td> </tr> <tr> <td data-bbox="300 784 916 875"> <ul data-bbox="427 799 890 853" style="list-style-type: none"> • NEW GENERATION OF OUTDOOR LED DISPLAY WITH IP67 WATERPROOF High Brightness </td> <td data-bbox="916 784 959 875"></td> </tr> <tr> <td data-bbox="300 875 916 934"> <ul data-bbox="523 891 794 913" style="list-style-type: none"> • Module Resolution (W x H) : 32 x 48 </td> <td data-bbox="916 875 959 934"></td> </tr> <tr> <td data-bbox="300 934 916 992"> <ul data-bbox="523 949 794 972" style="list-style-type: none"> • Module Composition (W x H) : 4 x 2 </td> <td data-bbox="916 934 959 992"></td> </tr> <tr> <td data-bbox="300 992 916 1050"> <ul data-bbox="555 1010 751 1032" style="list-style-type: none"> • Module Weight (kg) : 2.1 </td> <td data-bbox="916 992 959 1050"></td> </tr> <tr> <td data-bbox="300 1050 916 1108"> <ul data-bbox="507 1066 799 1088" style="list-style-type: none"> • Cabinet Resolution : (W x H) : 128 x 96 </td> <td data-bbox="916 1050 959 1108"></td> </tr> <tr> <td data-bbox="300 1108 916 1167"> <ul data-bbox="475 1126 831 1149" style="list-style-type: none"> • Cabinet Size (mm)(W x H x D) : 1280 x 960 x 75 </td> <td data-bbox="916 1108 959 1167"></td> </tr> <tr> <td data-bbox="300 1167 916 1225"> <ul data-bbox="507 1182 799 1205" style="list-style-type: none"> • LED Cabinet must be fanless design type </td> <td data-bbox="916 1167 959 1225"></td> </tr> <tr> <td data-bbox="300 1225 916 1283"> <ul data-bbox="491 1243 799 1265" style="list-style-type: none"> • Weight Per Cabinet : 26KG (Light Weight) </td> <td data-bbox="916 1225 959 1283"></td> </tr> <tr> <td data-bbox="300 1283 916 1341"> <ul data-bbox="427 1301 863 1323" style="list-style-type: none"> • Power Supply : Energy Switching Power Supply (CL with CE) </td> <td data-bbox="916 1283 959 1341"></td> </tr> <tr> <td data-bbox="300 1341 916 1400"> <ul data-bbox="459 1357 831 1379" style="list-style-type: none"> • Vertical Viewing Angle : 150 degree or better option </td> <td data-bbox="916 1341 959 1400"></td> </tr> <tr> <td data-bbox="300 1400 916 1458"> <ul data-bbox="459 1417 831 1440" style="list-style-type: none"> • Horizontal Viewing Angle : 150 degree or better option </td> <td data-bbox="916 1400 959 1458"></td> </tr> <tr> <td data-bbox="300 1458 916 1516"> <ul data-bbox="555 1473 719 1496" style="list-style-type: none"> • Brightness : 8500 nits </td> <td data-bbox="916 1458 959 1516"></td> </tr> <tr> <td data-bbox="300 1516 916 1574"> <ul data-bbox="507 1534 783 1556" style="list-style-type: none"> • Brightness Adjustment : Manual / Auto </td> <td data-bbox="916 1516 959 1574"></td> </tr> <tr> <td data-bbox="300 1574 916 1632"> <ul data-bbox="523 1592 767 1615" style="list-style-type: none"> • Color Temperature : 3000-10000 </td> <td data-bbox="916 1574 959 1632"></td> </tr> <tr> <td data-bbox="300 1632 916 1691"> <ul data-bbox="603 1653 687 1675" style="list-style-type: none"> • Adjustable </td> <td data-bbox="916 1632 959 1691"></td> </tr> <tr> <td data-bbox="300 1691 916 1749"> <ul data-bbox="523 1709 767 1731" style="list-style-type: none"> • Operating Temperature : 70 °C </td> <td data-bbox="916 1691 959 1749"></td> </tr> <tr> <td data-bbox="300 1749 916 1807"> <ul data-bbox="523 1767 767 1789" style="list-style-type: none"> • LED Life Time : >100,000 Hours </td> <td data-bbox="916 1749 959 1807"></td> </tr> <tr> <td data-bbox="300 1807 916 1865"> <ul data-bbox="555 1825 735 1848" style="list-style-type: none"> • Input Voltage : AC 240V </td> <td data-bbox="916 1807 959 1865"></td> </tr> <tr> <td data-bbox="300 1865 916 1924"> <ul data-bbox="379 1888 895 1910" style="list-style-type: none"> • Screen Power Consumption : MAX : 800W/sqm ; AVERAGE:300W/sqm </td> <td data-bbox="916 1865 959 1924"></td> </tr> <tr> <td data-bbox="300 1924 916 1982"> <ul data-bbox="523 1928 767 1951" style="list-style-type: none"> • Refresh Rate : 7680Hz </td> <td data-bbox="916 1924 959 1982"></td> </tr> <tr> <td data-bbox="300 1982 916 2040"> <ul data-bbox="539 2000 751 2022" style="list-style-type: none"> • Frame Rate : >60Frames/sec </td> <td data-bbox="916 1982 959 2040"></td> </tr> <tr> <td data-bbox="300 2040 916 2098"> <ul data-bbox="555 2040 783 2063" style="list-style-type: none"> • Defect Rate : <0.0002 </td> <td data-bbox="916 2040 959 2098">5/8</td> </tr> <tr> <td data-bbox="300 2098 916 2157"> <ul data-bbox="475 2125 815 2148" style="list-style-type: none"> • Control Method : Ledsign Synchronized System </td> <td data-bbox="916 2098 959 2157"></td> </tr> </table> | <p data-bbox="331 241 890 286">Harga termasuk <i>outdoor LED Display Board</i>. <i>Pixel, LED Display Size, Service cabinet, Display Elements</i> dengan ukuran Outdoor LED Display Board</p> <p data-bbox="528 302 692 324">LED Display Size/Set :</p> | | <p data-bbox="507 344 713 367">9600mm (W) x 5760mm (H)</p> | | <ul data-bbox="571 392 713 414" style="list-style-type: none"> • 30ft (W) x 20ft (H) | | <ul data-bbox="491 450 794 472" style="list-style-type: none"> • Resolution : 960 (Hor) x 576 (Ver) pixels | | <ul data-bbox="539 508 751 530" style="list-style-type: none"> • Pitch : not more than 10mm | | <ul data-bbox="395 566 890 611" 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| <p data-bbox="331 241 890 286">Harga termasuk <i>outdoor LED Display Board</i>. <i>Pixel, LED Display Size, Service cabinet, Display Elements</i> dengan ukuran Outdoor LED Display Board</p> <p data-bbox="528 302 692 324">LED Display Size/Set :</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <ul data-bbox="523 891 794 913" style="list-style-type: none"> • Module Resolution (W x H) : 32 x 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="523 949 794 972" style="list-style-type: none"> • Module Composition (W x H) : 4 x 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="555 1010 751 1032" style="list-style-type: none"> • Module Weight (kg) : 2.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="507 1066 799 1088" style="list-style-type: none"> • Cabinet Resolution : (W x H) : 128 x 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <ul data-bbox="507 1182 799 1205" style="list-style-type: none"> • LED Cabinet must be fanless design type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <ul data-bbox="459 1417 831 1440" style="list-style-type: none"> • Horizontal Viewing Angle : 150 degree or better option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="555 1473 719 1496" style="list-style-type: none"> • Brightness : 8500 nits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="507 1534 783 1556" style="list-style-type: none"> • Brightness Adjustment : Manual / Auto | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="523 1592 767 1615" style="list-style-type: none"> • Color Temperature : 3000-10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="603 1653 687 1675" style="list-style-type: none"> • Adjustable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="523 1709 767 1731" style="list-style-type: none"> • Operating Temperature : 70 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="523 1767 767 1789" style="list-style-type: none"> • LED Life Time : >100,000 Hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="555 1825 735 1848" style="list-style-type: none"> • Input Voltage : AC 240V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="379 1888 895 1910" style="list-style-type: none"> • Screen Power Consumption : MAX : 800W/sqm ; AVERAGE:300W/sqm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="523 1928 767 1951" style="list-style-type: none"> • Refresh Rate : 7680Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="539 2000 751 2022" style="list-style-type: none"> • Frame Rate : >60Frames/sec | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="555 2040 783 2063" style="list-style-type: none"> • Defect Rate : <0.0002 | 5/8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul data-bbox="475 2125 815 2148" style="list-style-type: none"> • Control Method : Ledsign Synchronized System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| BIL. | SPESIFIKASI | YA | TIDAK | CATATAN |
|---------|---|----|-------|---------|
| D | 4.0 KERJA KOMUNIKASI | | | |
| D.1 | 4.1 Menyedia, membekal dan memasang sistem sambungan internet / rangkaian dari bilik kawalan ke kotak servis kawalan (6 core Optical Fiber serta aksesori berkaitan anggaran 120m x 2 unit)(3 unit manage POE switch 8 port c/w 2 port fiber)(1 unit router & cloud controller omada sdn solutions) | | | |
| D.1.1 | 4.2 Menyediakan, membekal dan memasang sistem camera litar tertutup bagi kegunaan pemantauan Led Billboard. <ul style="list-style-type: none"> • 2 Unit Camera Jenis AI PTZ (HIK VISION atau setara dengan minima 8MP HD) • 3 Unit Camera Jenis PTZ (HIK VISION atau setara dengan minima 4MP HD) <ul style="list-style-type: none"> • Cloud Online Dashboard • NVR Storan 4 Terabyte • 2 unit tablet (Ipad 10th gen atau setara) dengan RAM 8GB | | | |
| D.1.1.1 | 4.3 Menyediakan, membekal dan memasang perangkap kilat sekurang-kurangnya 2 point beserta pembedaan. | | | |

| BIL. | SPESIFIKASI | YA | TIDAK | CATATAN |
|---------|---|----|-------|---------|
| E | 5.0 LAIN-LAIN KERJA BERKAITAN | | | |
| E.1 | 5.1 WANG PERUNTUKAN SEMENTARA <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>Sejumlah Wang untuk kerja-kerja pengalihan/kerja-kerja pembaikan utilitis yang rosak atau apa-apa binaan asal yang terjejas semasa kerja-kerja dijalankan (Bayaran tertakluk pada kerja sebenar di tapak bina)</p> </div> | | | |
| E.1.1 | 5.2 <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>Kursus dan pentauliahan pegawai-pegawai teknikal / operasi dalam pengurusan projek, <i>Certified Project Management</i>.</p> <p><i>Nota : Kontraktor hendaklah memastikan segala kos berkaitan keselamatan, penyimpanan, kebersihan tapak semasa pembinaan, kekemasan selepas kerja dan lain-lain yang berkaitan ditanggung oleh kontraktor.</i></p> </div> | | | |
| E.1.1.1 | 5.3 Memberi latihan dan mentauliah pegawai-pegawai teknikal / operasi bagi penggunaan / penyelenggaraan / konfigurasi kesemua perkakasan dan perisian yang dibekalkan. | | | |