

TENDER SUMMARY

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| Tender Title: | TENDER FOR THE SUPPLY OF FIBER DISTRIBUTION PANEL FOR TELEKOM MALAYSIA BERHAD (“TM”) |
| Tender Ref: | LPM/2022/T/14/A1K/FDP |
| Closing Date: | 25 AUGUST 2022 |

1. This tender requires the Tenderer to Supply, Delivery of Fibre Distribution Point and Mini Fibre Distribution Cabinet (hereinafter referred to as Item) for the purpose of providing a complete, high quality and reliable Item of item which would fulfil current and future TM business requirement.
2. Tenderer shall supply the following as follows: -
 - a) FDP
 - i. Aerial pole/Wall-mounted
 - ii. Underground
 - iii. Aboveground pedestal
 - b) Mini FDC
 - i. Aerial pole/Wall-mounted
 - ii. Aboveground pedestal
3. Tender Deposit:

The Tenderer shall deposit a sum of **RINGGIT MALAYSIA Twenty Thousand Only (RM20,000.00)** as a Tender Deposit and to be submitted in the Tender Proposal during Tender Closing Date. The Tender Deposit shall either be in the form of Bank Draft, Cashier's Cheque or Bank Guarantee and shall be made payable to Telekom Malaysia Berhad. TM shall reject any Tender proposal submitted without Tender Deposit or with insufficient Tender Deposit.

4. **Tenderer who fails to fulfill below criteria will be automatically eliminated or disqualified from further evaluation.**

| No. | Pre-Requisite Criteria | Description |
|------------|-------------------------------|---|
| 1 | On-time tender submission | All Tender Proposal must be submitted on 25 August 2022 before 12.00 noon Malaysia time. |
| 2 | Company Status | <ul style="list-style-type: none">• Shall be Malaysian Registered Company (Form 9, Companies Act 1965 / Application for Registration Form, Section 14, Companies Act 2016 issued by SSM);• Shall be a company with Sendirian Berhad (Sdn Bhd) or Berhad company. |
| 3 | Sufficient Tender Deposit | <p>The Tenderer shall deposit a sum of RINGGIT MALAYSIA TWENTY THOUSAND (RM20,000.00) as a Tender Deposit.</p> <ul style="list-style-type: none">• Tenderer shall submit a scanned copy of Tender Deposit during online submission on 25 August 2022. The original Tender Deposit shall be submitted by hand at Menara TM, 30 August 2022 before noon. |

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| | <ul style="list-style-type: none"> Tenderer is also allowed to submit the Tender Deposit via Online Transfer to the following account: Bank Account Holder Name: TELEKOM MALAYSIA BERHAD Bank Account No.: 8000417118 Bank name: CIMB Bank Berhad Bank address: Menara UAB, No 6, Jalan Tun Perak, 50050 Kuala Lumpur Swift Code: CIBBMYKL <p>Tenderer is required to email the Proof of Payment khairilhilmi.yusof@tm.com.my, azlina_am@tm.com.my and amirulshafiq@tm.com.my.</p> <p>The payment must be received on or before the Tender Closing Date and shall be confirmed by TM Group Finance. The Tenderer is required to include the payment slip in the Tender submission. Failing which, the Tender proposal shall be rejected.</p> |
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5. List of Critical Clause:

Tenderer is required **to fully comply with the clauses marked as “Critical (CRQ) Clause”** in the Technical Specifications. Failing which, the Tenderer shall be disqualified from the tender exercise and their tender submission shall be rejected. The list of CRQ clauses is as below:

| No. | Clause No | Clause Description | | | | | | |
|---|--|--|----------------|--|-----------------------|-------------|---|--|
| 1 | B1.4.4.1 | <p>The FDP and Mini FDC shall provide a minimum cable port are as follows:</p> <ul style="list-style-type: none"> i. Two (2) ports with lift-able or detachable plate/grommet to support mid-span access for uncut Distribution Cable and one (1) individual round port for Distribution Cable branch. ii. Ten (10) individual round ports for Drop Cable. <p>The Tenderer shall provide supporting evidence upon document submission.</p> | | | | | | |
| 2 | B1.4.7.4 | The minimum bending radius allowed for the fibre coil inside the fibre splice organizer tray shall be 30mm. The Tenderer shall submit supporting evidence upon document submission. | | | | | | |
| 3 | B1.5.1.1.7 | The fully terminated Aerial and Wall-mounted enclosures shall be designed based on at least IP54 of IEC 60529/ EN 60529 requirements. The Tenderer shall submit supporting evidence upon document submission. | | | | | | |
| 4 | B1.5.1.2.1 | <p><u>Aerial Pole and Wall-Mounted Enclosure (FDP & Mini FC)</u> The enclosures shall be made of polymeric material with minimum f2 rating when tested for UV test as specified in Table 1 under UL 746C or equivalent. The Tenderer shall submit test report upon document submission.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="text-align: center;">Table 1</th> </tr> <tr> <th style="text-align: left;">Test Item & Parameter</th> <th style="text-align: left;">Requirement</th> </tr> </thead> <tbody> <tr> <td>Ultraviolet Light Exposure 1000 hours accelerated Xenon Arc UV exposure</td> <td> The physical property values after UV conditioning shall not be less than 70% as follows: a) Tensile or flexural strength b) Impact (Tensile impact or Izod impact or Charpy impact) </td> </tr> </tbody> </table> | Table 1 | | Test Item & Parameter | Requirement | Ultraviolet Light Exposure 1000 hours accelerated Xenon Arc UV exposure | The physical property values after UV conditioning shall not be less than 70% as follows: a) Tensile or flexural strength b) Impact (Tensile impact or Izod impact or Charpy impact) |
| Table 1 | | | | | | | | |
| Test Item & Parameter | Requirement | | | | | | | |
| Ultraviolet Light Exposure 1000 hours accelerated Xenon Arc UV exposure | The physical property values after UV conditioning shall not be less than 70% as follows: a) Tensile or flexural strength b) Impact (Tensile impact or Izod impact or Charpy impact) | | | | | | | |
| 5 | B1.5.2.1.4 | The fully terminated UG enclosures shall be designed based on IP68 of IEC 60529/ EN 60529 requirements. The Tenderer shall submit supporting evidence upon document submission. | | | | | | |
| 6 | B1.5.3.1.3 | The fully terminated Aboveground Pedestal enclosures shall be designed based on at least IP54 of IEC 60529/ EN 60529 requirements. The Tenderer shall submit supporting evidence upon document submission. | | | | | | |

| 7 | B1.5.3.3.1 | <p>Aboveground Pedestal Enclosure (FDP & Mini FDC)</p> <p>The enclosures shall be made of polymeric material with minimum f2 rating when tested for UV test as specified in Table 1 under UL 746C or equivalent. The Tenderer shall submit test report upon document submission.</p> <table border="1" data-bbox="416 282 1331 528"> <thead> <tr> <th data-bbox="416 282 762 320">Test Item & Parameter</th> <th data-bbox="762 282 1331 320">Requirement</th> </tr> </thead> <tbody> <tr> <td data-bbox="416 320 762 528">Ultraviolet Light Exposure 1000 hours accelerated Xenon Arc UV exposure</td> <td data-bbox="762 320 1331 528">The physical property values after UV conditioning shall not be less than 70% as follows: a) Tensile or flexural strength b) Impact (Tensile impact or Izod impact or Charpy impact)</td> </tr> </tbody> </table> | Test Item & Parameter | Requirement | Ultraviolet Light Exposure 1000 hours accelerated Xenon Arc UV exposure | The physical property values after UV conditioning shall not be less than 70% as follows: a) Tensile or flexural strength b) Impact (Tensile impact or Izod impact or Charpy impact) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|---|--|--|----|-----------|-------------|----------------|-------------|---|-----------------|-------------|--|--|---|---------------|-------------|--|--|---|--|-------------------------|--|--|---|--------------------------------|-------------------------|--|--|---|---|-------------------------|---|--|
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| 8 | B1.6.1.1 | <p>The enclosures shall be designed to meet the mechanical performance specified in Table 3 below. The Tenderer shall submit supporting evidence upon document submission.</p> <table border="1" data-bbox="427 667 1369 1585"> <thead> <tr> <th colspan="5" data-bbox="427 667 1369 696">MECHANICAL PERFORMANCE</th> </tr> <tr> <th data-bbox="427 696 480 745">NO</th> <th data-bbox="480 696 671 745">TEST TYPE</th> <th data-bbox="671 696 868 745">TEST METHOD</th> <th data-bbox="868 696 1110 745">TEST CONDITION</th> <th data-bbox="1110 696 1369 745">REQUIREMENT</th> </tr> </thead> <tbody> <tr> <td data-bbox="427 745 480 842">1</td> <td data-bbox="480 745 671 842">Cable Retention</td> <td data-bbox="671 745 868 842">GR-771-CORE</td> <td data-bbox="868 745 1110 842"> <ul style="list-style-type: none"> • Load: 10kg • Duration: 60mins </td> <td data-bbox="1110 745 1369 842">No mechanical damage to the enclosure and its accessories.</td> </tr> <tr> <td data-bbox="427 842 480 1059">2</td> <td data-bbox="480 842 671 1059">Cable Flexing</td> <td data-bbox="671 842 868 1059">GR-771-CORE</td> <td data-bbox="868 842 1110 1059"> <ul style="list-style-type: none"> • Cycle: 8 • Flex angle: 90° • Load: 10kg • Duration: 5mins/cycle • Sample conditioned at temperature 40°C ± 2°C for 2 hours </td> <td data-bbox="1110 842 1369 1059">No mechanical damage to the enclosure and its accessories.</td> </tr> <tr> <td data-bbox="427 1059 480 1200">3</td> <td data-bbox="480 1059 671 1200">Impact - Aerial Pole/ Wall-mounted Enclosure</td> <td data-bbox="671 1059 868 1200">IEC 61300-2-12 Method B</td> <td data-bbox="868 1059 1110 1200"> <ul style="list-style-type: none"> • Impact tool: 1kg mass steel ball • Height: 1m • Impact locations: centre of top, front and sides </td> <td data-bbox="1110 1059 1369 1200">No mechanical damage to the enclosure and its accessories.</td> </tr> <tr> <td data-bbox="427 1200 480 1395">4</td> <td data-bbox="480 1200 671 1395">Impact - Underground Enclosure</td> <td data-bbox="671 1200 868 1395">IEC 61300-2-12 Method B</td> <td data-bbox="868 1200 1110 1395"> <ul style="list-style-type: none"> • Impact tool: 1kg mass steel ball • Height: 2m • Impact locations: centre of closure at 0°, 90°, 180° and 270° around longitudinal axis </td> <td data-bbox="1110 1200 1369 1395">No mechanical damage to the enclosure and its accessories.</td> </tr> <tr> <td data-bbox="427 1395 480 1585">5</td> <td data-bbox="480 1395 671 1585">Impact - Aboveground Pedestal Enclosure</td> <td data-bbox="671 1395 868 1585">IEC 61300-2-12 Method B</td> <td data-bbox="868 1395 1110 1585"> <ul style="list-style-type: none"> • Load: 1kg mass steel ball • Height: 1m • Impact locations: centre of closure at 0°, 90°, 180° and 270° around longitudinal axis </td> <td data-bbox="1110 1395 1369 1585">No mechanical damage to the enclosure and its accessories.</td> </tr> </tbody> </table> <p data-bbox="743 1597 1054 1626" style="text-align: center;">Table 3: Mechanical Test</p> | MECHANICAL PERFORMANCE | | | | | NO | TEST TYPE | TEST METHOD | TEST CONDITION | REQUIREMENT | 1 | Cable Retention | GR-771-CORE | <ul style="list-style-type: none"> • Load: 10kg • Duration: 60mins | No mechanical damage to the enclosure and its accessories. | 2 | Cable Flexing | GR-771-CORE | <ul style="list-style-type: none"> • Cycle: 8 • Flex angle: 90° • Load: 10kg • Duration: 5mins/cycle • Sample conditioned at temperature 40°C ± 2°C for 2 hours | No mechanical damage to the enclosure and its accessories. | 3 | Impact - Aerial Pole/ Wall-mounted Enclosure | IEC 61300-2-12 Method B | <ul style="list-style-type: none"> • Impact tool: 1kg mass steel ball • Height: 1m • Impact locations: centre of top, front and sides | No mechanical damage to the enclosure and its accessories. | 4 | Impact - Underground Enclosure | IEC 61300-2-12 Method B | <ul style="list-style-type: none"> • Impact tool: 1kg mass steel ball • Height: 2m • Impact locations: centre of closure at 0°, 90°, 180° and 270° around longitudinal axis | No mechanical damage to the enclosure and its accessories. | 5 | Impact - Aboveground Pedestal Enclosure | IEC 61300-2-12 Method B | <ul style="list-style-type: none"> • Load: 1kg mass steel ball • Height: 1m • Impact locations: centre of closure at 0°, 90°, 180° and 270° around longitudinal axis | No mechanical damage to the enclosure and its accessories. |
| MECHANICAL PERFORMANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO | TEST TYPE | TEST METHOD | TEST CONDITION | REQUIREMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Cable Retention | GR-771-CORE | <ul style="list-style-type: none"> • Load: 10kg • Duration: 60mins | No mechanical damage to the enclosure and its accessories. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Cable Flexing | GR-771-CORE | <ul style="list-style-type: none"> • Cycle: 8 • Flex angle: 90° • Load: 10kg • Duration: 5mins/cycle • Sample conditioned at temperature 40°C ± 2°C for 2 hours | No mechanical damage to the enclosure and its accessories. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Impact - Aerial Pole/ Wall-mounted Enclosure | IEC 61300-2-12 Method B | <ul style="list-style-type: none"> • Impact tool: 1kg mass steel ball • Height: 1m • Impact locations: centre of top, front and sides | No mechanical damage to the enclosure and its accessories. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9 | B1.6.2.2 | <p>Vibration Test</p> <p>The enclosures components subject to vibration test of the following test parameters shall not exhibit any mechanical damage in accordance with IEC 61300-2-1.</p> <ol style="list-style-type: none"> i. Frequency: 5– 500 Hz ii. 10 sweeps (5Hz – 500Hz – 5Hz) iii. 1 octave/minute iv. Test axis: 3 Axes (X, Y and Z) v. 3.5 mm amplitude below 9Hz vi. 1 gn above 9Hz <p>The Tenderer shall submit test report upon document submission.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | B2.1.1.1 | <p>The optical splitter shall be of micro-splitter type with one (1) input with multiple outputs type for all of the following:</p> <ol style="list-style-type: none"> a) 1:8 (FDP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | b) 1:4 (Mini FDC) The Tenderer shall submit supporting evidence upon document submission. | | | | | | | | | | | | |
|-----|------------------------------------|---|-------------------------|------------------------------------|--------------------------|-------------------------|---|-----|--------|---------|---|-----|-------|---------|
| 11 | B2.1.3.1 | The optical splitter shall be of a single mode fibre type in accordance with ITU-T G.657A. The tenderer shall submit supporting evidence upon document submission. | | | | | | | | | | | | |
| 12 | B2.1.3.3 | The Insertion Loss (IL) and Uniformity of the optical splitter shall be as defined in Table 1 below. The Tenderer shall submit supporting evidence upon tender submission. <table border="1" data-bbox="411 443 1362 568"> <thead> <tr> <th>No.</th> <th>Optical Splitter (Splitting Ratio)</th> <th>Insertion Loss (IL) (dB)</th> <th>Channel Uniformity (dB)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1:8</td> <td>≤ 10.5</td> <td>≤ 1.2dB</td> </tr> <tr> <td>2</td> <td>1:4</td> <td>≤ 7.2</td> <td>≤ 0.8dB</td> </tr> </tbody> </table> | No. | Optical Splitter (Splitting Ratio) | Insertion Loss (IL) (dB) | Channel Uniformity (dB) | 1 | 1:8 | ≤ 10.5 | ≤ 1.2dB | 2 | 1:4 | ≤ 7.2 | ≤ 0.8dB |
| No. | Optical Splitter (Splitting Ratio) | Insertion Loss (IL) (dB) | Channel Uniformity (dB) | | | | | | | | | | | |
| 1 | 1:8 | ≤ 10.5 | ≤ 1.2dB | | | | | | | | | | | |
| 2 | 1:4 | ≤ 7.2 | ≤ 0.8dB | | | | | | | | | | | |
| 13 | B2.1.4.1 | The optical splitter shall comply with all of the reliability tests as follows. a) High Temperature Storage (Damp) in accordance with Telcordia GR-1221 b) High Temperature Storage (Dry) in accordance with Telcordia GR-1221 c) Temperature Cycling in accordance with Telcordia GR-1221 d) Mechanical Shock in accordance with Telcordia GR-1221 e) Vibration in accordance with Telcordia GR-1221 f) Fibre Retention in accordance with Telcordia GR-1209 g) Fibre Side Pull in accordance with Telcordia GR-1209 The Tenderer shall submit test report upon document submission. | | | | | | | | | | | | |

6. Tender Briefing

Date: 3 August 2022

Time: 10.00 am

Venue: Virtual Meeting using Microsoft Teams Application

ID and password will be provided to those who have registered with a limit to 2 (two) ID only.

If you wish to participate in the Tender Briefing session, kindly provide maximum of two (2) emails that will be joining the briefing.

| First Name | Last Name | Email | Contact number | Job Title | Company | Address |
|------------|-----------|-------|----------------|-----------|---------|---------|
| | | | | | | |
| | | | | | | |

7. All communication regarding to this Tender shall be sent to TM authorized representatives as follows:

1. Amirul Shafiq Hsan Baseri e-mail: amirulshafiq@tm.com.my
2. Khairil Hilmi Yusof e-mail: khairihilmi.yusof@tm.com.my
3. Noor Azlina Amri e-mail: azlina_am@tm.com.my

COMPANY INFORMATION

TENDER FOR THE SUPPLY OF FIBER DISTRIBUTION PANEL FOR TELEKOM MALAYSIA BERHAD (“TM”)

TENDER REF: LPM/2022/T/14/A1K/FDP

| | |
|----------------------------------|--|
| Company Name and Address: | |
| Officer Name: | |
| Tel. No (Office): | |
| Hand phone No: | |
| Fax No: | |
| Date: | |
| Time: | |

.....
Signature of Contractor/Supplier
Name in Full:
I/C No:
Designation:

NON-SOLICITATION UNDERTAKING AND NON-DISCLOSURE AGREEMENT

Date:

TELEKOM MALAYSIA BHD

Level 51, North Wing,
Menara TM,
Jalan Pantai Baharu,
50672 Kuala Lumpur

Dear Sirs,

TENDER TITLE: TENDER FOR THE SUPPLY OF FIBER DISTRIBUTION PANEL FOR TELEKOM MALAYSIA BERHAD (“TM”)

TENDER REF.: LPM/2022/T/14/A1K/FDP

1. With reference to the abovementioned Tender, we (including our employees, agents, sub-contractors and representatives) hereby unconditionally and fully agree that we will not offer, promise or make any gift, payment, loan, reward, inducement, benefit, or other advantage to any of TM's employee, members of the Board of Directors, representatives and agents, for purposes of illicit gratification, reward, benefit or advantage in connection to or arising out of the abovementioned Tender.
2. Further, we recognize that such practice is in violation of TM's policies and the Anti-Corruption Act 1997 (Act 575) and hereby warrant and undertake not to utilize and/or solicit any information or assistance offered by any persons or companies or allow the existence or the continuation of such practice for purposes of any TM's Tender and/or Contract.
3. We (including our employees, agents, sub-contractors and representatives) hereby unconditionally and fully agrees to treat this Tender, including all Tender Documents, and everything in connection to or arising out of this Tender as private and confidential and “Confidential Information” means any Personal Data (having the meaning ascribed under the Personal Data Protection Act 2010), information, technical data, or know-how including, but not limited to, that which relates to research, product plans, product, services, customers, markets, software, developments, inventions, process, designs, drawings, engineering, hardware and software configuration information, marketing or finance or any form of business plans, which Confidential Information (except Personal Data) is designated in writing to be confidential or proprietary or if given orally, is confirmed promptly in writing as having been disclose as confidential or proprietary.
4. We agree that we (including our employees, agents, sub-contractors and representatives) shall:
 - a) not to use any Confidential Information disclosed by TM for our own use or for any purpose except to carry out discussions concerning, and the undertaking of, any business relationship between the two.
 - b) not disclose any Confidential Information to third parties or to its employees except employees who are required to have the information in order to carry out the discussion of the contemplated business.
 - c) have or has had employees to whom Confidential Information is disclosed or who have access to Confidential Information sign a Non-Disclosure Agreement in

content substantially similar to this Tender and will promptly notify TM in writing of the names of each employees.

- d) take all reasonable measures to protect the secrecy of and avoid disclosure or use of Confidential Information in order to prevent it from falling into the public domain or the possession of persons other than those persons authorized hereunder to have any such information, which measures shall include the highest degree of care that the we utilize to protect our own Confidential Information of a similar nature.
 - e) notify TM in writing of any misuse or misappropriation of Confidential Information which may come to our attention.
 - f) return any materials or documents (all copies of such documentation) which have been furnished by TM to us (including our employees, agents, sub-contractors and representatives), after the Proposal/business possibility has been rejected or concluded.
5. We agree that the obligations provided herein are necessary and reasonable in order to protect TM and its business, and we expressly agree that monetary damages would be inadequate to compensate TM for any breach by us of its covenants and agreement set forth herein. Accordingly, we agree and acknowledge that any such violation or threatened violation will cause irreparable injury to TM and that in addition to any other remedies that may be available, in law, in equity or otherwise, TM shall be entitled to obtain injunctive relief against the threatened breach of this Tender or the continuation of any such breach by us, without the necessity of providing actual damages.
6. Furthermore, we hereby acknowledge and agree that any contravention of this undertaking, may result in the rejection or disqualification of the abovementioned Tender submission and/or termination of Contract by TM, which TM has the sole rights and prerogative to make such decision.

.....
Signature of Contractor/Supplier
Name in Full:
I/C No:
Designation:
Company's Name:

In the capacity of duly authorized
To sign for and on behalf of
Company's seal or stamp

(The signatory must be an authorized person with written authorization from the Company)