

TENDER SUMMARY

Tender Title:	TENDER FOR THE SUPPLY, DELIVERY AND INSTALLATION OF SINGLE-BAND AND MULTI-BAND ANTENNAS FOR eNodeB (eNB) RADIO ACCESS NETWORK (RAN)
Tender Ref:	CATX/2019/T/04/RAN ANTENNA
Closing Date:	11 December 2019 (Wednesday)

1. This Tender defines the requirement of Telekom Malaysia Berhad (hereinafter refers to “TM”) for the Supply, Delivery And Installation of Single-Band And Multi-Band Antennas For eNodeB (eNB) Radio Access Network (RAN) for the purpose of providing a complete, high quality and reliable equipment which fulfils current and future TM business requirement.
2. The scope of this tender are as follow:-

Item	Details
Product	Supply & Delivery of: <ul style="list-style-type: none"> • Antenna models as per table provided • Complete installation kits • All the necessary auxiliary equipment & accessories • AISG cables
Engineering Service	Antenna Installation Service & Antenna Swap Service <ul style="list-style-type: none"> • Remove existing antenna & bracket (for swap scenario) • Assemble the new bracket • Install the new bracket • Install the new antenna • Adjust the mechanical down tilt • Connect AISG cable
Support Service	<ul style="list-style-type: none"> • 3 Years product warranty • 3 weeks antenna installation service guarantee

3. Tenderer is required to **fully comply with the clauses marked as “Critical Clause (CRQ)”** 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 are as below:

Clause No.	Clause Description
A.4.5	The Tenderer is required to provide warehousing facilities to manage antenna delivery for the project rollout.
B.1.2	The Tenderer shall provide the antenna pattern file for webe and eRAN vendors to generate a coverage prediction plot. The Tenderer shall commit that the actual coverage test result meeting with the coverage prediction plot.
D.1.2	The Tenderer shall propose the following types of antenna:
D.1.2.1	Model 1 : FDD600 ~ FDD700, FDD850 (8 Ports)
D1.2.2	Model 2 : TDD2300 (8 Ports)
D.1.2.3	Model 3 : FDD700 ~ FDD850, TDD2300 (4T4R) (8 Ports)
D.1.2.4	Model 4 : FDD700 ~ FDD850, TDD2300 (8T8R) (12 Ports)
D.1.2.5	Model 5 : FDD700 ~ FDD850, TDD2300 (4T4R), FDD2600 (4T4R) (12 Ports)

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D.1.2.13	<p>The Proposed Antenna Model shall comply with the specification summarized in the following table:</p> <p>The tenderer shall submit each antenna model datasheet, product description and brochures that has all the parameters requested in the table:</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Frequency band</th> <th>No of Transmitter</th> <th>No of Port</th> <th>Min Gain (dBi)</th> <th>Min RET Range (Degree)</th> <th>Min HPBW H-Plane</th> <th>Min HPBW V-Plane</th> <th>Max Dimension (HxWxD) m</th> <th>Max Weight (kg)</th> <th>Beamforming</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1</td> <td>FDD600</td> <td>2T4R</td> <td rowspan="2">4</td> <td>14</td> <td rowspan="2">2-10</td> <td>60</td> <td>10</td> <td rowspan="3">2.1x0.6x0.2</td> <td rowspan="3">35</td> <td>N</td> </tr> <tr> <td>FDD700</td> <td>2T4R</td> <td>15</td> <td>60</td> <td>10</td> <td>N</td> </tr> <tr> <td>FDD850</td> <td>2T4R</td> <td>4</td> <td>16</td> <td>2-10</td> <td>60</td> <td>10</td> <td>N</td> </tr> <tr> <td>2</td> <td>TDD2300</td> <td>8T8R</td> <td>8</td> <td>16.5</td> <td>2-10</td> <td>60</td> <td>6</td> <td>2.1x0.6x0.2</td> <td>20</td> <td>Y</td> </tr> <tr> <td rowspan="3">3</td> <td>FDD700</td> <td>2T4R</td> <td rowspan="2">4</td> <td>15</td> <td rowspan="2">2-10</td> <td>60</td> <td>10</td> <td rowspan="3">2.1x0.6x0.2</td> <td rowspan="3">40</td> <td>N</td> </tr> <tr> <td>FDD850</td> <td>2T4R</td> <td>16</td> <td>60</td> <td>10</td> <td>N</td> </tr> <tr> <td>TDD2300</td> <td>4T4R</td> <td>4</td> <td>16.5</td> <td>2-10</td> <td>60</td> <td>6</td> <td>Y</td> </tr> <tr> <td rowspan="3">4</td> <td>FDD700</td> <td>2T4R</td> <td rowspan="2">4</td> <td>15</td> <td rowspan="2">2-10</td> <td>60</td> <td>10</td> <td rowspan="3">2.1x0.6x0.2</td> <td rowspan="3">40</td> <td>N</td> </tr> <tr> <td>FDD850</td> <td>2T4R</td> <td>16</td> <td>60</td> <td>10</td> <td>N</td> </tr> <tr> <td>TDD2300</td> <td>8T8R</td> <td>8</td> <td>16.5</td> <td>2-10</td> <td>60</td> <td>6</td> <td>Y</td> </tr> <tr> <td rowspan="4">5</td> <td>FDD700</td> <td>2T4R</td> <td rowspan="2">4</td> <td>15</td> <td rowspan="2">2-10</td> <td>60</td> <td>10</td> <td rowspan="4">2.1x0.6x0.2</td> <td rowspan="4">45</td> <td>N</td> </tr> <tr> <td>FDD850</td> <td>2T4R</td> <td>16</td> <td>60</td> <td>10</td> <td>N</td> </tr> <tr> <td>TDD2300</td> <td>4T4R</td> <td>4</td> <td>16.5</td> <td>2-10</td> <td>60</td> <td>6</td> <td>Y</td> </tr> <tr> <td>FDD2600</td> <td>4T4R</td> <td>4</td> <td>16.5</td> <td>2-10</td> <td>60</td> <td>6</td> <td>N</td> </tr> </tbody> </table>	Model	Frequency band	No of Transmitter	No of Port	Min Gain (dBi)	Min RET Range (Degree)	Min HPBW H-Plane	Min HPBW V-Plane	Max Dimension (HxWxD) m	Max Weight (kg)	Beamforming	1	FDD600	2T4R	4	14	2-10	60	10	2.1x0.6x0.2	35	N	FDD700	2T4R	15	60	10	N	FDD850	2T4R	4	16	2-10	60	10	N	2	TDD2300	8T8R	8	16.5	2-10	60	6	2.1x0.6x0.2	20	Y	3	FDD700	2T4R	4	15	2-10	60	10	2.1x0.6x0.2	40	N	FDD850	2T4R	16	60	10	N	TDD2300	4T4R	4	16.5	2-10	60	6	Y	4	FDD700	2T4R	4	15	2-10	60	10	2.1x0.6x0.2	40	N	FDD850	2T4R	16	60	10	N	TDD2300	8T8R	8	16.5	2-10	60	6	Y	5	FDD700	2T4R	4	15	2-10	60	10	2.1x0.6x0.2	45	N	FDD850	2T4R	16	60	10	N	TDD2300	4T4R	4	16.5	2-10	60	6	Y	FDD2600	4T4R	4	16.5	2-10	60	6	N
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D3.5	<p>The proposed Antenna shall be able to operate with Remote Electrical Tilt (RET) and RCU (Remote Control Unit).</p> <p>The tenderer shall submit each antenna model datasheet, product description and brochures that has the RET and RCU information.</p>																																																																																																																																		

4. The Tenderer shall deposit a sum of **RINGGIT MALAYSIA FIFTY THOUSAND (RM50, 000.00) only** as a Tender Deposit and to be submitted in the Tender Proposal during Tender Closing Date. Failure to submit the Tender Deposit during the Tender Closing Date shall result in **tender disqualification**.

COMPANY INFORMATION

TENDER FOR THE SUPPLY, DELIVERY AND INSTALLATION OF SINGLE-BAND AND MULTI-BAND ANTENNAS FOR eNodeB (eNB) RADIO ACCESS NETWORK (RAN)

TENDER REF : CATX/2019/T/04/RAN ANTENNA

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

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

NON-SOLICITATION UNDERTAKING

Date:

**TELEKOM MALAYSIA BHD
LEVEL 51, NORTH WING,
MENARA TM,
JALAN PANTAI BAHARU,
50672 KUALA LUMPUR.**

Dear Sirs,

TENDER FOR THE SUPPLY, DELIVERY AND INSTALLATION OF SINGLE-BAND AND MULTI-BAND ANTENNAS FOR eNodeB (eNB) RADIO ACCESS NETWORK (RAN)

TENDER REF: CATX/2019/T/04/RAN ANTENNA

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.

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.

And Further, 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)