



**TENDER FOR DESIGN, SUPPLY, INSTALLATION, INTEGRATION,
COMMISSIONING, DELIVERY AND MAINTENANCE OF THREE (3) MOBILE
MONITORING SYSTEMS**

Tender Briefing

14 November 2023

OBJECTIVE

Session 1 :

- Briefing on the project
- Q & A

Session 2 :

Tender Compliance

BACKGROUND (1/2)

- Mobile Monitoring System (MMS) is a vehicular-based spectrum monitoring system.
- In 2013, MCMC procured **3 units** of MMS equipped with spectrum monitoring system from **Rohde & Schwarz GmbH & Co KG (R&S)**. Details as follows:



MMS-ALS (FORD EVEREST)

- Current location: MCMC WP State Office
- New Location: MCMC Kedah State Office



MMS-KCH (MERCEDES BENZ SPRINTER)

- Current location: MCMC Pahang State Office
- New location: MCMC Sarawak State Office



MMS-JBU (MERCEDES BENZ SPRINTER)

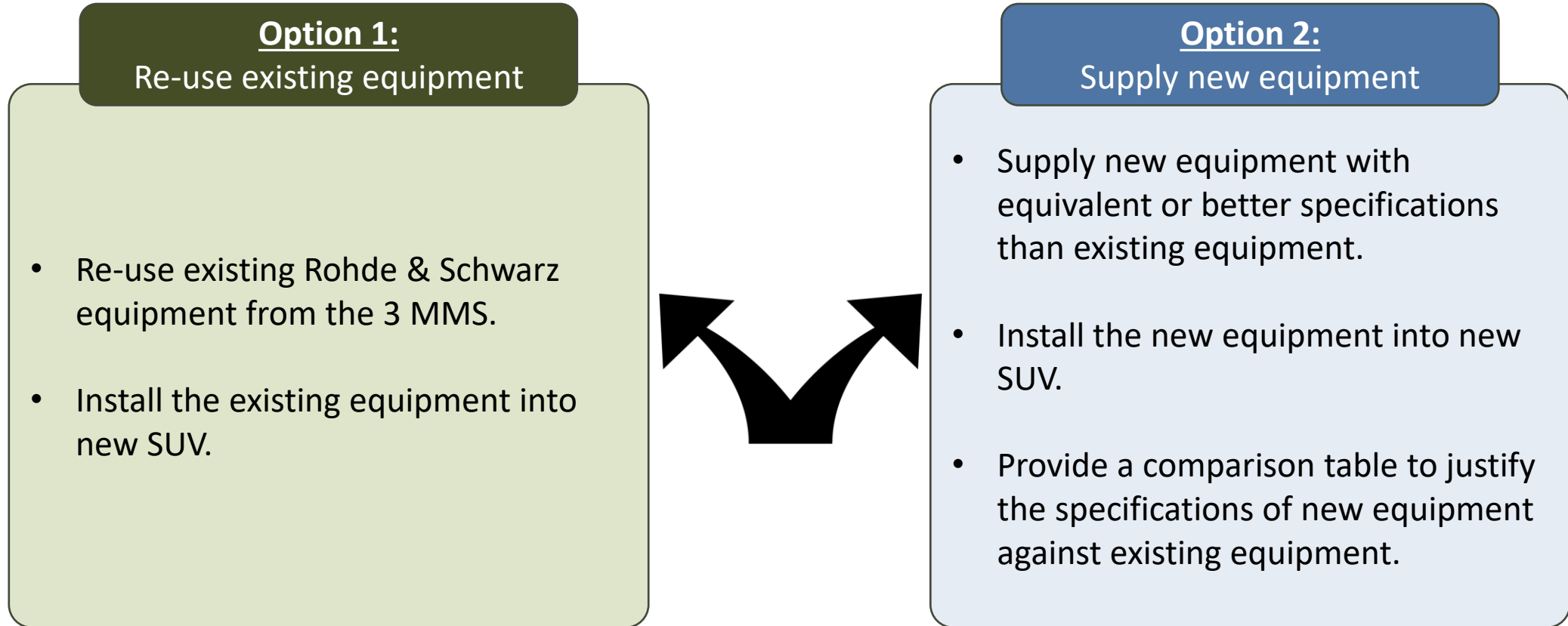
- Current location: MCMC Johor State Office
- New location: No relocation

Existing MMS capabilities

- spectrum monitoring and DF up **until 3GHz**
- consist of **antenna, receiver, processor & synthesizer** and **display & control**
- For MMS-KCH and MMS-JBU, equipped with pneumatic mast – to raise DF and Yagi antennas

BACKGROUND (2/2)

- 2 options available for participating Tenderer:



MANDATORY REQUIREMENTS

PARAGRAPH 2: MANDATORY REQUIREMENTS OF THE TENDERER

- Valid certificate of registration issued by Companies Commission of Malaysia (CCM).
- Valid copy of authorisation letter or certificate of authorised partner issued by manufacturer especially involving receivers and antennas.



TENDER REQUIREMENTS

PARAGRAPH 3: GENERAL REQUIREMENTS OF THE TENDERER

- Tenderers with valid *Sijil Akuan Pendaftaran Syarikat Bumiputera* issued by the Ministry of Finance are encouraged to participate.
- Tenderers with the valid registration with Ministry of Finance under the following *Kod Bidang, Kepala* and *Sub Kepala* related to the Tender are encouraged to participate:
 - 110106 – *Pengangkutan, Komponen dan Aksesori, Kenderaan Bermotor dan Tidak Bermotor, Kenderaan Kegunaan Khusus*
 - 120502 – *Pertahanan dan Keselamatan, Pengesanan, Pemantauan dan Perlindungan, Peralatan Pemantauan dan Pengesanan*



SCOPE OF WORK / TECHNICAL SPECIFICATIONS



Design



Supply



Installation



Integration



Commissioning



Training



Delivery

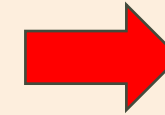


Maintenance

SCOPE OF WORK | PRELIMINARY

PARAGRAPH 42: PRELIMINARY STAGE

- Propose and obtain approval from MCMC on the detailed project timeline to complete the work within project duration of **12 months or earlier**;
- Perform on-site functionality and equipment assessments on the configuration and condition of existing systems*;
- Properly remove only required equipment installed inside the 3 MMS vehicles*;
- Securely station the MMS vehicles at the successful Tenderer's office prior to removal work*.



Shall be carried out before tender submission to include repair cost. Request shall be made before **20 Nov** via tender@mcmc.gov.my

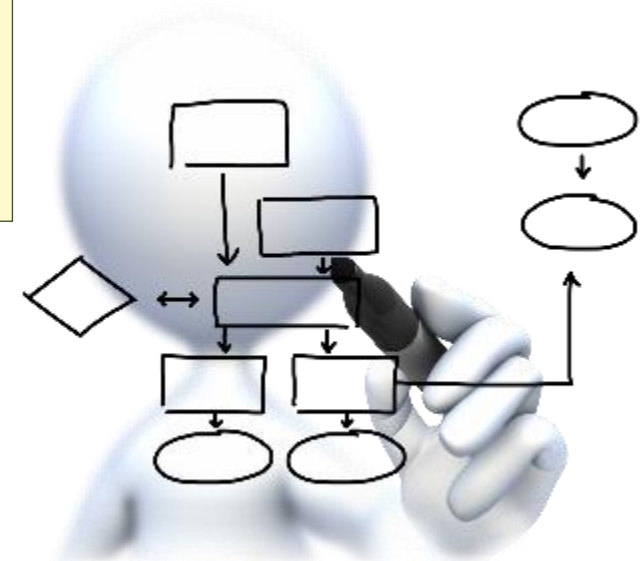
**Note: only applicable to Tenderer who will reuse existing equipment*

PRELIMINARY

SCOPE OF WORK | STAGE 1 : DESIGN

PARAGRAPH 43: DESIGN STAGE

- Design three (3) Sport Utility Vehicle (SUV) to house spectrum monitoring system;
- All engineering system and vehicle drawings shall be approved by Professional Engineer;
- Present approved engineering system design and vehicle drawings to MCMC for approval;
- Ensure usage class for three (3) MMS are retained as individual usage class; and,
- All documents shall be approved by relevant parties and MCMC.



SCOPE OF WORK | STAGE 2 : SUPPLY



PARAGRAPH 44: SUPPLY STAGE

Appendix J: Technical Specification for New Spectrum Monitoring Receiver and Antenna

Appendix K: Technical Specification for MMS-ALS, KCH and JBU

Propose one (1) SUV model

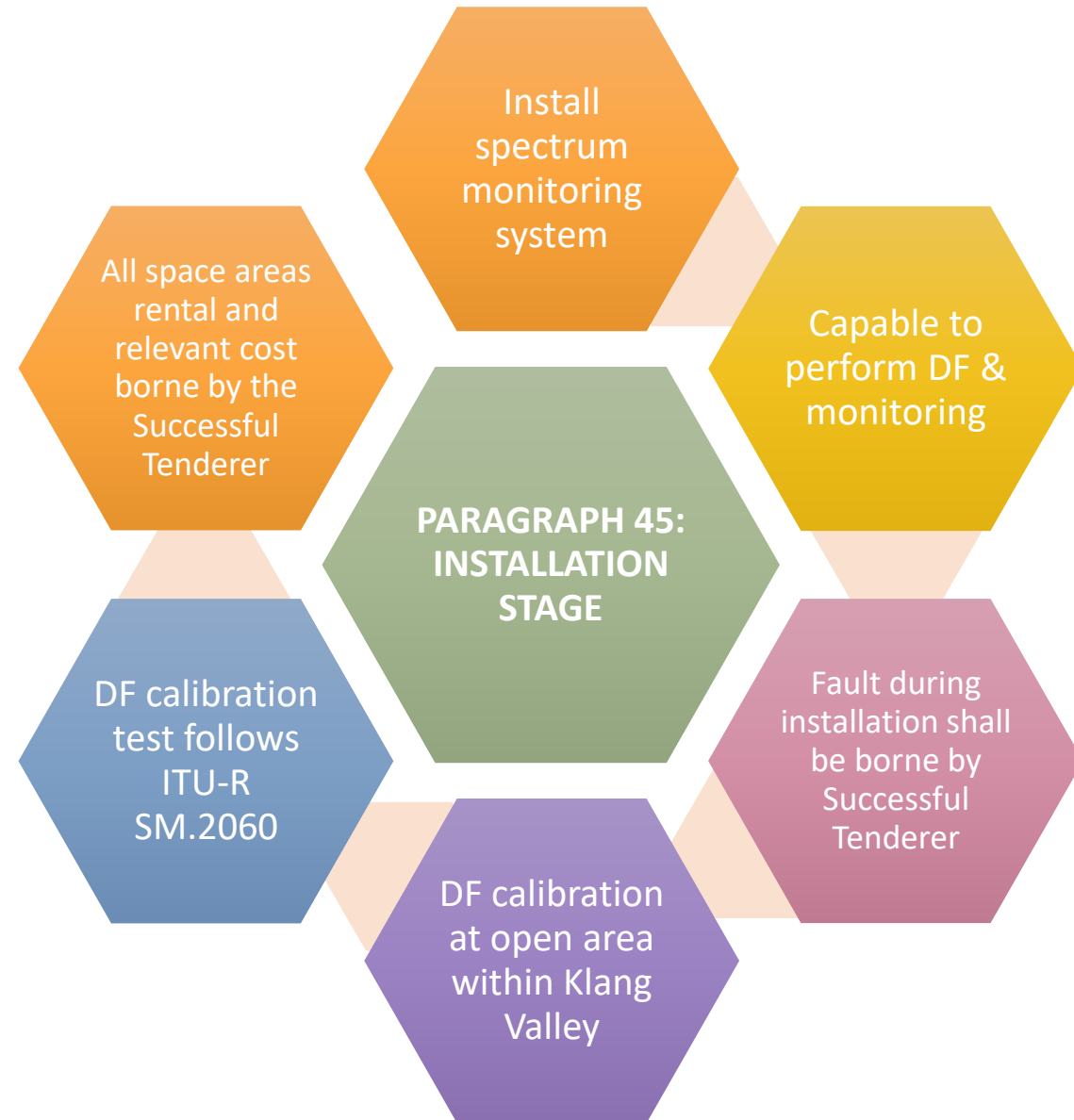
Supply three (3) SUVs

Supply new monitoring equipment or use existing system

Supply new auxiliary equipment



SCOPE OF WORK | STAGE 3 : INSTALLATION



SCOPE OF WORK | STAGE 4 : INTEGRATION



**PARAGRAPH 46:
INTEGRATION
STAGE**



**4G/5G LTE
wireless
network router**



**Integrated with MCMC's
base station database**



**Secured server
at MCMC
Datacenter**



SCOPE OF WORK | STAGE 5 : COMMISSIONING

PARAGRAPH 47: COMMISSIONING STAGE

- At least two (2) MCMC officers to witness

ON-SITE VERIFICATIONS FOR NEW VEHICLE ENHANCED AND TECHNICAL SPECIFICATIONS

MMS-ALS

MMS-KCH

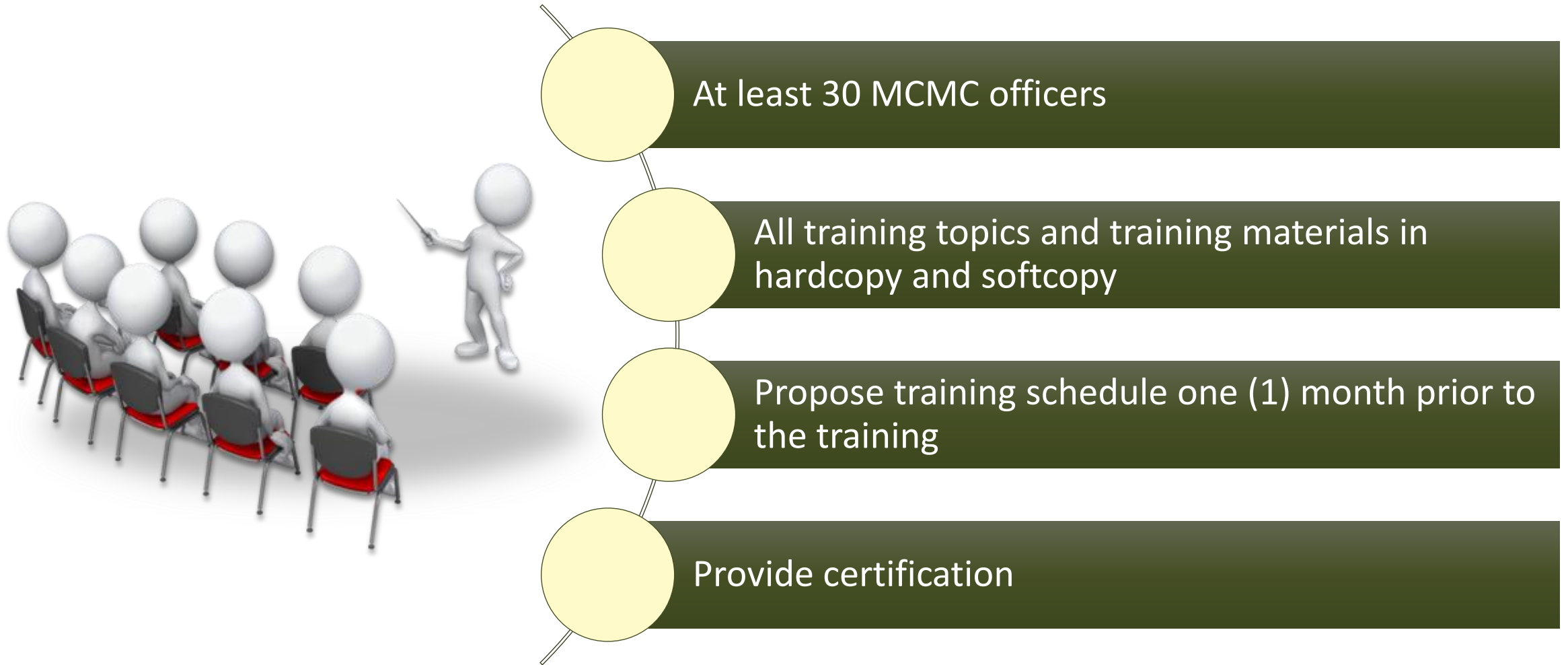
MMS-JBU

On-site commissioning in MCMC office in Cyberjaya

- Combination of DF result
- Real-time unlicensed station verification



SCOPE OF WORK | STAGE 6 : TRAINING



SCOPE OF WORK | STAGE 7 : DELIVERY

KEDAH STATE OFFICE

- Aras 2A & 3A, Menara BDB, 88, Lebuhraya Darulaman, 05100, Alor Setar, Kedah Darul Aman
- MMS-ALS

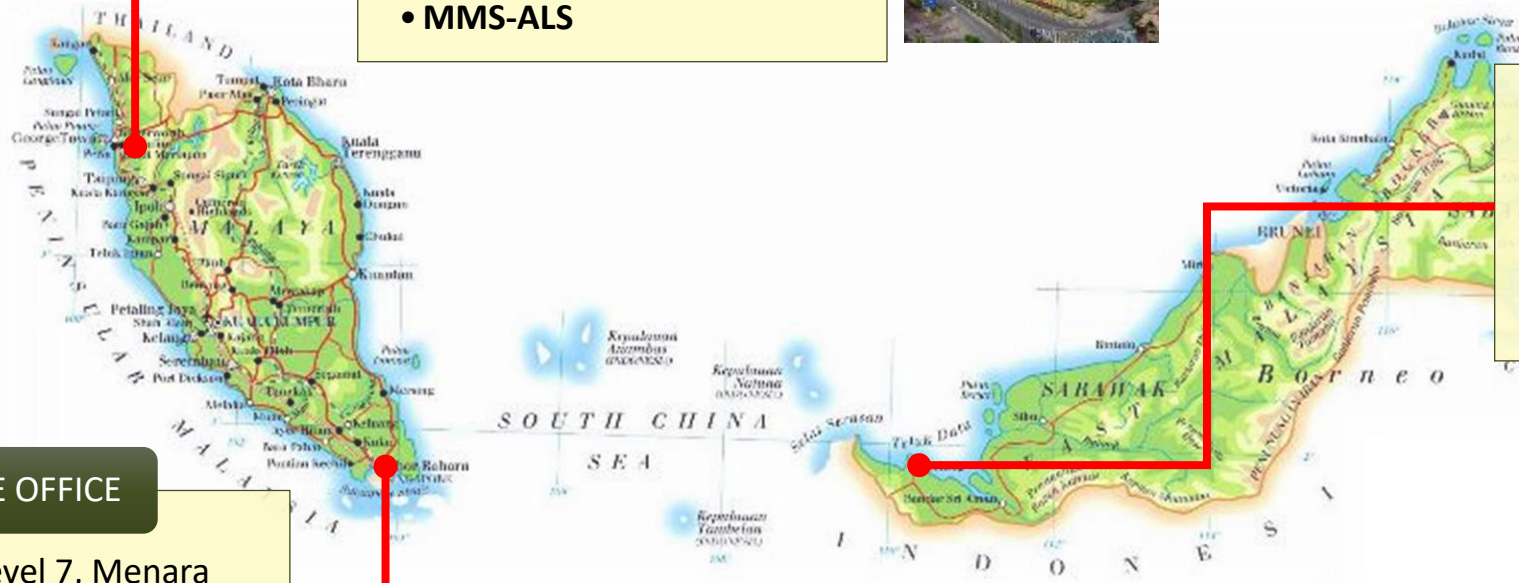


SARAWAK STATE OFFICE

- Block D, i-Com Square, Jalan Pending, 93450, Kuching, Sarawak
- MMS-KCH

JOHOR STATE OFFICE

- Suite 7A, Level 7, Menara Ansar, Jalan Trus, 80000, Johor Bahru, Johor Darul Takzim
- MMS-JBU



SCOPE OF WORK | STAGE 8 : MAINTENANCE



One (1) year warranty period after CFA

Four (4) years of maintenance services

Comprehensive on-site preventive maintenance

Calibration at least annually

Cover both software and hardware

Notification to MCMC at least three (3) working days

Calibration by accredited calibration/testing labs in Malaysia with consent from manufacturer

Provide calibrated unit to temporarily replace the relevant receiver during calibration

Hardware for calibration is insured

Submit calibration report and certificate after completion

Collect vehicles from relevant MCMC State Offices for service

Vehicle service by authorized service center nearby KDSO, JSO and SWSO

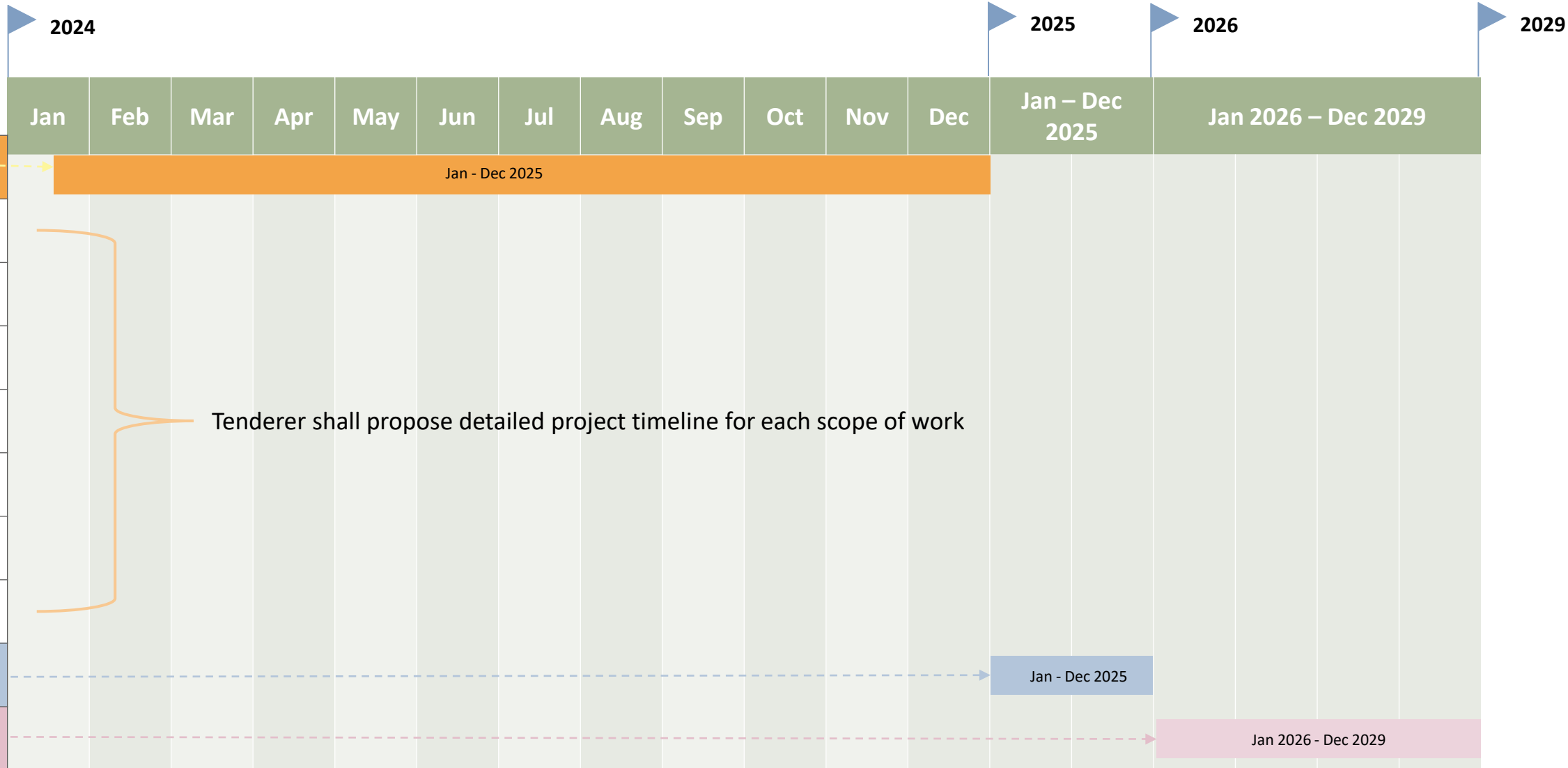
Two (2) types of technical support; 1) Helpdesk 2) On-site hardware and software support including vehicle issues



PROPOSED PROJECT DEVELOPMENT TIMELINE



Issuance of CFA





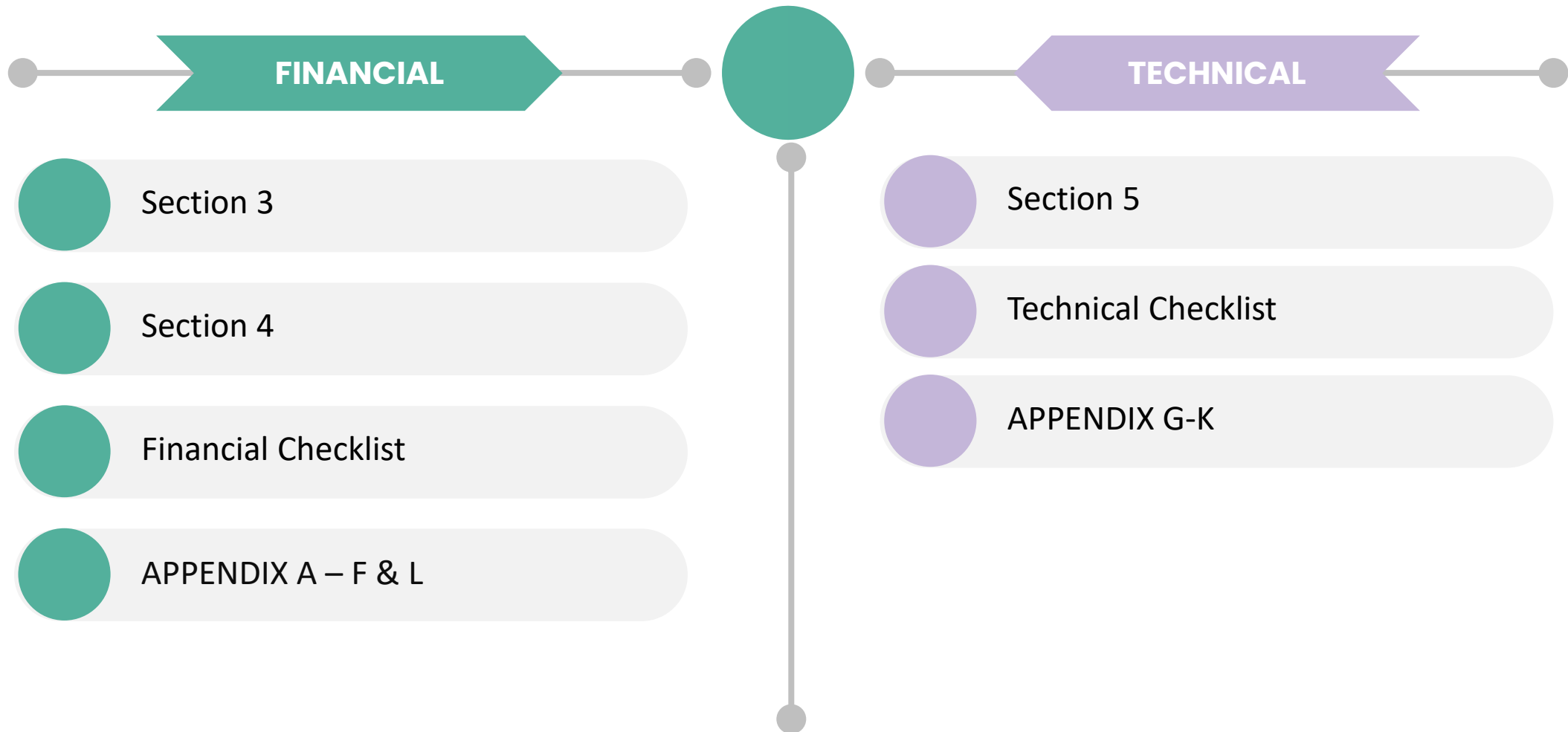
TENDER COMPLIANCE

HOW TO PURCHASE TENDER DOCUMENT

[URL : https://msmart.mcmc.gov.my/web/index.php](https://msmart.mcmc.gov.my/web/index.php)



TENDER SUBMISSION



Financial Submission:

1 Original (hardcopy) + 1 Copy (hardcopy)
+ 1 digital copy of scanned documents in
pdf format (CD or pen drive)

Technical Submission:

1 Original (hardcopy) + 1 Copy (hardcopy)
+ 1 digital copy of scanned documents in
pdf format (CD or pen drive)

IMPORTANT NOTES

1. All information and updates will be in MCMC website
2. Attach the Tender Deposit / proof of online transaction to the Form of Tender Document (Appendix B). **Tender submissions without the Tender Deposit shall be disqualified.**
3. Be aware and **comply with the all required signatories**. Please ensure that the Tenderer's official company stamps, and authorized signature appear on **all pages** of the Financial Submission only.
4. **No company name / info in the Technical Submission.** Failure to comply with this may invalidate the Tenderer's tender submission.
5. The MCMC Tender Secretariat will be the only point of contact for this project (tender@mcmc.gov.my)

TENDER TIMELINE



8 Nov 2023

TENDER ISSUANCE



14 Nov 2023

**TENDER BRIEFING
SESSION**



27 Nov 2023

**TENDER
CLARIFICATION ENDS**

- **Before 5.00pm**
- Strictly via email only to tender@mcmc.gov.my
- The consolidated Q&A will be published in MCMC website



4 Dec 2023

**TENDER SUBMISSION /
TENDER CLOSING DATE**

- **On or before 12.00pm**
- MCMC CoE, Cyberjaya
- To complete Acknowledgement Form (2 copies)
- **Late submission shall be rejected**



THANK YOU