

TENDER FOR THE PROVISIONING OF CONSULTANCY SERVICES FOR THE DEVELOPMENT OF THE SPECTRUM OUTLOOK

TENDER BRIEFING

26 JUNE 2025

CONTENT



SESSION 1

- Briefing on the project
- Q&A session

SESSION 2

- Briefing on tender compliance

SESSION 1

Briefing on the project Q&A

PROJECT OBJECTIVE



- ❖ Develop a comprehensive spectrum outlook, which will serve as a strategic and forward-looking reference document to guide national spectrum planning, policy, and roadmap over the next five years.
- ❖ Develop the necessary strategic plans and frameworks to anticipate spectrum needs, identify priority frequency bands for future development, and ensure policy coherence across services and technologies.
- ❖ The spectrum outlook will build upon relevant national policies and roadmap, incorporate international best practices, and address current and anticipated spectrum demand across key sectors. In principle, the spectrum outlook is expected to:
 - Provide a clear, structured, and future-ready framework for spectrum planning and allocation
 - Align spectrum policy and allocation with national development goals and global technology trends
 - Enable efficient spectrum use across sectors
 - Facilitate timely spectrum availability for both existing and emerging services
 - Support innovation, investment, and growth in the telecommunications sectors

SPECTRUM MANAGEMENT FRAMEWORK



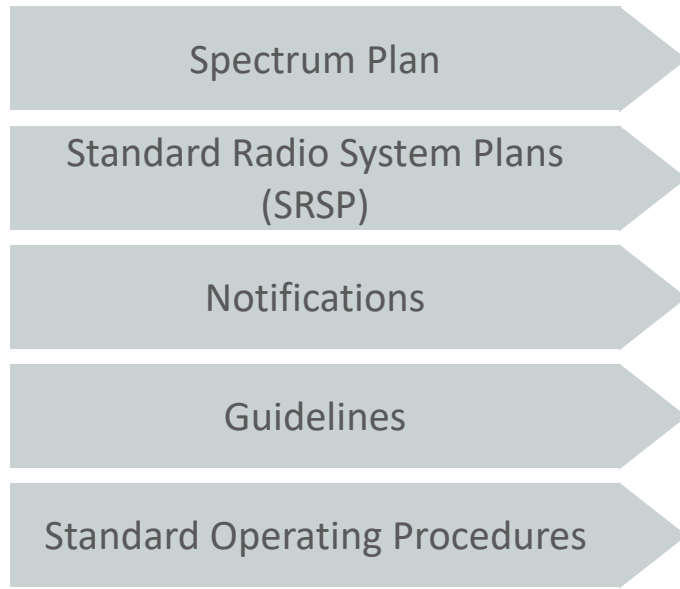
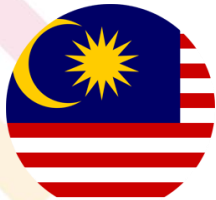
International



International Telecommunication Union (ITU)

- Radio Regulations
- Rules of Procedure
- ITU-R Resolutions
- ITU-R Recommendations

Malaysia



Spectrum Plan

E.g., microwave link, mobile broadband, terrestrial TV, etc.

Issuance of Class Assignment

E.g., Apparatus Assignment (AA), Trial, Amateur, UAS, etc.

Procedures, processes, etc.



- Communications and Multimedia Act 1998 (**CMA**)
- Communications and Multimedia (Spectrum) Regulations 2000 (**Spectrum Regulations**)

<http://www.mcmc.gov.my/en/spectrum/spectrum-management>

POTENTIAL AREAS TO BE COVERED UNDER CONSULTANCY



Spectrum planning and requirements to support continued and future deployments of mobile cellular and broadband services, including technological shifts towards 6G

Current and prospective use of spectrum across low, mid, and high-frequency bands

Spectrum considerations for the Non-Terrestrial Network (including D2D communications and the low-altitude platform ecosystem)

Spectrum considerations for emerging satellite applications and usage, including broadband, Earth observation, and narrowband IoT applications

Review of spectrum allocation and planning and assess trends for fixed wireless access, point-to-point backhaul, and broadcasting services

Spectrum needs for industrial, enterprise, and campus-based applications

Spectrum strategies to support future IoT and critical applications

Consideration of spectrum needs for intelligent transport systems, including connected vehicles, roadside infrastructure, and next-generation transport communication networks

Integration and management of emerging technologies

Spectrum refarming and reallocation to repurpose underutilised bands and maximise spectrum efficiency

Evaluation of spectrum economics aspects, including pricing frameworks, spectrum renewal policies, and considerations of spectrum sharing and secondary markets

Exploration of Artificial Intelligence (AI) and machine learning tools in spectrum management

OVERVIEW OF SCOPE OF WORK (1/2)



Main Tasks

Engagement

Deliverables

	Phase 0	Phase 1 – 1 month	Phase 2 – 2 months	Phase 3 – 2 months
	Project initiation and expectation alignment	Situational analysis of the current spectrum landscape	Analysis of trends, spectrum demand & benchmarking	Development of spectrum outlook
Main Tasks	<ul style="list-style-type: none"> Develop detailed work plan and timeline Compile and validate all necessary inputs and required data/info Design structured stakeholder engagement and communication plans Identify potential issues, risks, or dependencies 	<ul style="list-style-type: none"> Review existing regulatory and policy frameworks governing spectrum management Identify and evaluate key frequency bands, services, and policies as focus areas for the project Analyse the current spectrum landscape across different frequency bands, sectoral services and applications 	<ul style="list-style-type: none"> Analyse trends and drivers of spectrum demand Review international spectrum policies and practices Assess spectrum needs, market readiness, technology maturity, and policy gaps Develop band/service-specific planning strategies and scenarios Assess economic and technical aspects Benchmarking and gap analysis 	<ul style="list-style-type: none"> Develop five-year spectrum outlook, which includes national spectrum strategy/framework, actionable planning and implementation roadmap, prioritization, expected impacts and strategic recommendations Indicative direction and planning considerations beyond the five-year period Monitoring and review framework
Engagement	<ul style="list-style-type: none"> Kick-off meeting with MCMC (physical/virtual) 	<ul style="list-style-type: none"> Discussions with MCMC (physical/virtual) Presentation/briefing to MCMC (physical) 	<ul style="list-style-type: none"> Industry and stakeholders' consultations and engagement (Physical & virtual) Presentation to MCMC (physical/virtual) 	<ul style="list-style-type: none"> Closed/targeted consultations, Public consultation Presentation to MCMC Knowledge transfer sessions
Deliverables	<ul style="list-style-type: none"> Project initiation report 	<ul style="list-style-type: none"> Progress Report 1* 	<ul style="list-style-type: none"> Progress Report 2* 	<ul style="list-style-type: none"> Progress Report 3* Draft Public Consultation & Closed Consultation documents Knowledge Transfer report

*Includes key insights, findings, outcomes and recommendation from all key tasks and deliverables under each Phase

OVERVIEW OF SCOPE OF WORK (2/2)



Final Deliverables (1 month)

No.	Item	Description
1	Comprehensive Consultancy Report	A full and integrated report encompassing all key insights, findings, stakeholder feedback and outcomes, international benchmarking outcomes, impact analysis and strategic recommendations developed throughout the consultancy
2	Draft Spectrum Outlook (Comprehensive Version)	A detailed, working-level version of the spectrum outlook that includes the full scope of analysis, assumptions, band-by-band planning, technical justifications, and strategic considerations for internal deliberation, alignment, and decision-making
3	Draft Spectrum Outlook (High-level Version)	A high-level and simplified version of the spectrum outlook, highlighting strategic direction on spectrum planning and allocation, incorporating validated content, visuals, and planning timelines – professionally formatted version and suitable for public release
4	Presentation Deck	A concise, visually engaging presentation highlighting the key components of the spectrum outlook, suitable for briefings to internal and external stakeholders

OVERVIEW OF PROJECT TIMELINE



No.	Items	Duration
1	Phase 0 Project initiation and expectation alignment	1 day
2	Phase 1 Situational analysis of the current spectrum landscape	1 month
3	Phase 2 Analysis of market and technology trends, spectrum needs, and international benchmarking	2 months
4	Phase 3 Development of spectrum outlook and implementation plan	2 months
5	Final deliverables	1 month
Total Duration		6 months

Note: Detailed workplan and timeline shall be provided by the tenderer based on the above guidance and may be adjusted or enhanced as appropriate. Nevertheless, the overall project is to be completed within six months

TENDER REQUIREMENTS



Requirement	Description
<p>Mandatory Requirement</p>	<ul style="list-style-type: none"> The Tenderer shall be a local company that is incorporated in Malaysia and is required to have a valid certificate of registration issued by the Companies Commission of Malaysia (CCM). If the Tenderer is not incorporated/established in Malaysia and is a foreign entity, the Tenderer is required to have a valid certificate of registration from the relevant authority (similar to CCM) in its country of origin.
<p>General Requirement</p>	<ul style="list-style-type: none"> The Tenderer should seek to establish strategic collaborations, partnerships, or working arrangements with: <ul style="list-style-type: none"> ✓ academic or research institutions or bodies based in Malaysia; or ✓ academician or researcher formally affiliated with such academic or research institutions or bodies based in Malaysia. The Tenderer must provide detailed information, together with supporting documents, on any such established collaborations, partnerships, or working arrangements with the above-mentioned parties, as part of its tender submission. Where applicable, the Tenderer may provide details of any proposed or prospective collaborations, partnerships, or working arrangements with the above-mentioned parties, together with supporting documents, as part of its tender submission. For the avoidance of doubt, any such arrangements must be finalised by the Successful Tenderer prior to the award of the Tender or the execution of the Agreement, whichever occurs earlier.

FINANCIAL



- The indicative price for the Consultancy is **Ringgit Malaysia Four Million Five Hundred Thousand Only (RM4,500,000.00)** inclusive of any duties or taxes imposed by the Government of Malaysia. Tenderer is required to provide details in **Appendix D** of the Tender Document. All price quotations shall be made in Ringgit Malaysia.
- The Successful Tenderer shall be subjected to the verification and satisfaction of MCMC before the payment is disbursed according to the payment schedule stipulated in **Table 1—Payment Schedule** of the Tender Document.
- Performance bond preferably in the form of Bank Guarantee (BG) at 5% of the total contract sum and the validity throughout the Consultancy period and an additional three (3) months after the acceptance by MCMC of the final and full completion of the Consultancy, to the satisfaction of MCMC.

PAYMENT SCHEDULE



No.	Payment Schedule	Payment (%)
1.	Upon kick-off meeting of the Consultancy, the execution and stamping of the Agreement, and receipt of Performance Bond	5
2.	Upon completion, delivery and endorsement of Progress Reports 1 and 2, subject to the verification and satisfaction of MCMC	35
3.	Upon completion, delivery and endorsement of Progress Report 3, subject to the verification and satisfaction of MCMC	40
4.	Upon completion, delivery and endorsement of Final Deliverables, subject to the verification and satisfaction of MCMC	20
Total		100

Reference: Section 5 Scope of Consultancy of the Tender Document

SESSION 2

Briefing on tender compliance

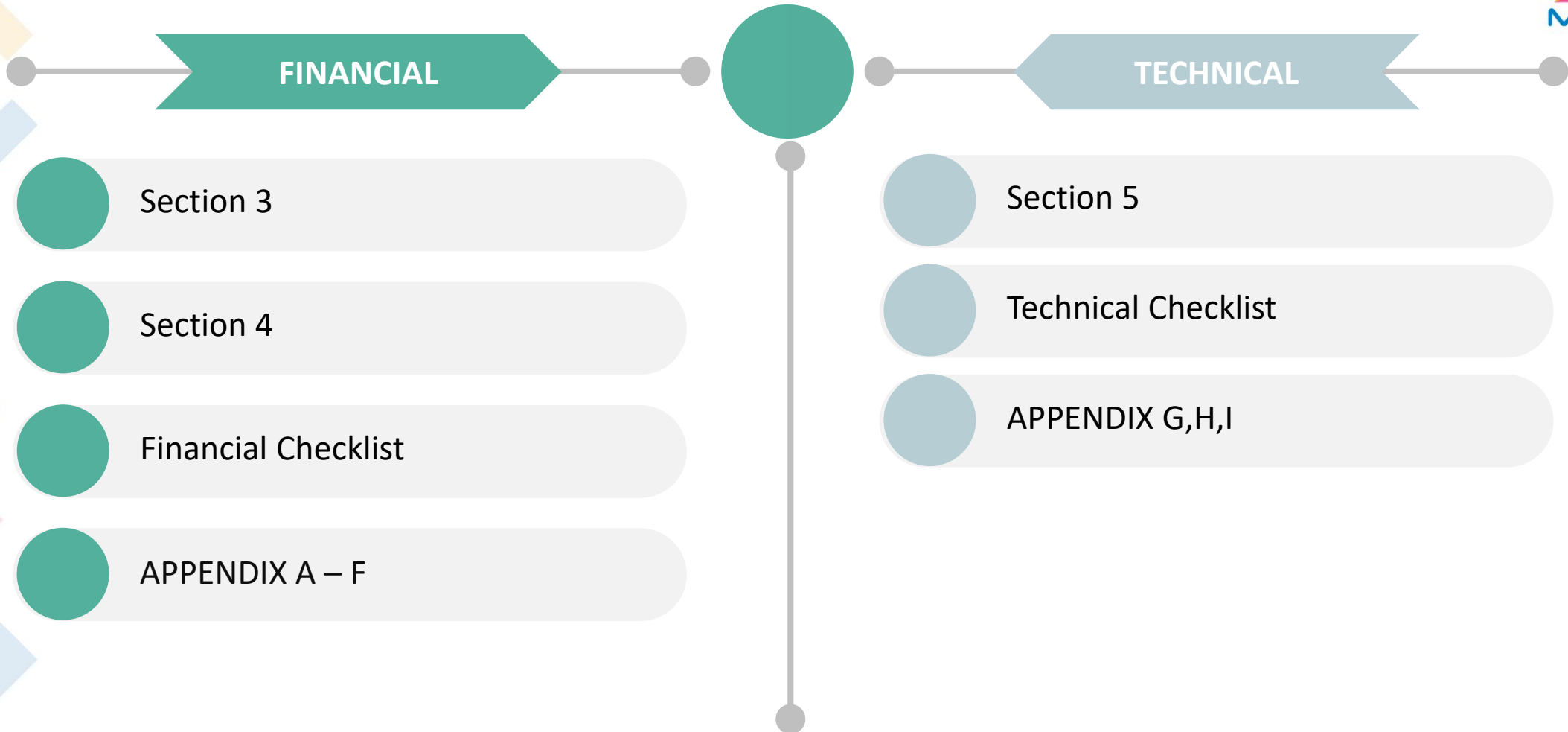
HOW TO PURCHASE TENDER DOCUMENT



[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 (USB flash drive) + **Working File**

Technical Submission:

1 Original (hardcopy) + 1 Copy (hardcopy)
+ 1 digital copy of scanned documents in
pdf format (USB flash drive) + **Working File**

IMPORTANT NOTES



1. All information and updates will be on MCMC website.
2. Attach the Tender Deposit to the Form of Tender Document (Appendix B). **Tender submissions without the Tender Deposit shall be disqualified.**
3. Be aware and comply with the 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/logo in the Technical Submission (redact).** Tenderer is strictly prohibited from displaying or including its name in the Technical Submission. This is including the evidence sent in the technical submission.
5. The MCMC Tender Secretariat will be the only point of contact for this project (tender@mcmc.gov.my).

TENDER TIMELINE



20 JUNE 2025

TENDER ISSUANCE



26 JUNE 2025

TENDER BRIEFING
SESSION



15 JULY 2025

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



22 JULY 2025

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



MCMC/SPD/COPD(01)/CMIR2030/TC/10/2024(08)
(Acknowledgement of Submission)

CMIR 2030

TMU/TE-F02



COMPANY PARTICULARS

1.	Company Name :	
2.	Company Address :	
	Tel. No :	
	Fax. No :	
	Email Address :	
3.	Name of representative :	
4.	Contact Persons (Minimum two (2) contact persons to be filled in):	
a.	Name : Designation :	Tel : Email : Signature:
b.	Name : Designation :	Tel : Email : Signature:
c.	Name : Designation :	Tel : Email : Signature:
5.	Details of Submission:	
	No. of Box (Boxes)/ Envelope(s) :	Acknowledged Received : (Day/Date/Time) (MCMC)
	Acknowledged Received : (Day/Date/Time) (Company)	

