



বাংলাদেশ টেলিযোগাযোগ নিয়ন্ত্রণ কমিশন
প্লট#ই-৫/এ, আগারগাঁও প্রশাসনিক এলাকা, শের-ই-
বাংলা নগর, ঢাকা-১২০৭
প্রশাসন বিভাগ
www.btrc.gov.bd



নম্বর: ১৪.৩২.০০০০.০০০.৪০০.০৭.০০০৬.২৬.৬০৪

তারিখ: ১৪ বৈশাখ ১৪৩৩
২৭ এপ্রিল ২০২৬

বিজ্ঞপ্তি

বিষয়: সেলুলার মোবাইল নেটওয়ার্কে ব্যবহার্য তরঙ্গের মূল্য নির্ধারণের লক্ষ্যে গবেষক (ব্যক্তিভিত্তিক পরামর্শক) নিয়োগের লক্ষ্যে আগ্রহী প্রার্থীদের জীবনবৃত্তান্ত সংগ্রহ প্রসঙ্গে।

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানানো যাচ্ছে যে, বাংলাদেশ টেলিযোগাযোগ নিয়ন্ত্রণ কমিশন (বিটিআরসি) কর্তৃক সেলুলার মোবাইল নেটওয়ার্কে ব্যবহার্য তরঙ্গের সর্বোত্তম ব্যবহার ও এর সঠিক মূল্য নির্ধারণ নিশ্চিতকল্পে একজন পরামর্শক নিয়োগ করা হবে। সার্বিক কার্যক্রমের Terms of Reference (TOR) এতদসঙ্গে সংযুক্ত।

০২। আগ্রহী প্রার্থীগণকে তাদের জীবনবৃত্তান্ত আগামী ০৩ মে, ২০২৬ তারিখের মধ্যে নিম্নলিখিত ইমেইলে প্রেরণের জন্য অনুরোধ করা হলো।

ইমেইলঃ dgsm@btrc.gov.bd, shamsuzzoha@btrc.gov.bd

সংযুক্তি:

(১) TOR-27.04.2026

সংযুক্তি: Terms of Reference (TOR)

২৭-০৪-২০২৬

লেঃ কর্ণেল সৈয়দ মোঃ তৌফিকুল ইসলাম
পরিচালক (অতিরিক্ত দায়িত্ব)

বিতরণ: জ্ঞাতার্থে/জ্ঞাতার্থে ও কার্যার্থে:

- ১। চেয়ারম্যান এর একান্ত সচিব, চেয়ারম্যান এর দপ্তর, চেয়ারম্যান এর একান্ত সচিব, চেয়ারম্যান এর দপ্তর, বিটিআরসি (ইহা মহোদয়ের সদয় অবগতির জন্য)।
- ২। মোঃ সাজদার রহমান, সিনিয়র সহকারী পরিচালক, আইটি শাখা, বিটিআরসি (জারীকৃত বিজ্ঞপ্তিটি কমিশনের ওয়েবসাইটে প্রকাশের প্রয়োজনীয় ব্যবস্থা গ্রহণের অনুরোধসহ)।
- ৩। অফিস কপি, বিটিআরসি।



**Selection of Individual Consultant/Researcher to Conduct Research on
Economic and Social Valuation of Spectrum in Bangladesh**

Terms of Reference

1. Background and General Description

The Bangladesh Telecommunication Regulatory Commission (BTRC) intends to engage an external expert to conduct a comprehensive study to determine an economically and socially optimal spectrum price for mobile communications in Bangladesh. The study will support BTRC's ongoing efforts to ensure affordable and efficient spectrum utilization while safeguarding industry sustainability and long-term national economic benefits.

2. Objectives of the Services

The selected Consultant/Researcher(s) shall undertake analytical, empirical, and comparative studies covering, but not limited to, the following areas:

- (a) Determine an appropriate spectrum pricing methodology;
 - (b) Conduct a comprehensive Techno-economic valuation of radio spectrum considering current and future technology evolution, market dynamics, future growth potential and cost & revenue structures;
 - (c) Review current spectrum pricing models and frameworks (national and international);
 - (d) Assessment of bandwidth assignment impacts on pricing, competition, and efficiency;
 - (e) Regional and international benchmarking of spectrum prices;
 - (f) Analyze the impact of assigning large spectrum bandwidths on pricing and market efficiency;
 - (g) Evaluation of the economic and social contribution of spectrum to national development;
 - (h) Benchmark Bangladesh's spectrum prices with regional and comparable economies;
 - (i) Recommend the appropriate spectrum price model/level for mobile operators in Bangladesh, based on international best practices, economic valuation models, and socio-economic considerations.
 - (j) Assess the economic and social impact of spectrum allocation on GDP growth, digital inclusion, and user welfare.
-

3. Scope of the Services

The selected Consultant/Researcher(s) will be responsible for performing the following tasks and deliver concrete outputs:

- (a) **Techno-Economic Valuation:** Conduct a comprehensive techno-economic analysis to determine the suitable price of radio spectrum, considering the evolving technology landscape, historical market trends, current market structure, future growth potential, operator revenues, and costs associated with deploying emerging radio technologies.
- (b) **Review of Spectrum Pricing Frameworks:** Review existing national and international spectrum pricing models and recommend an appropriate framework and evidence-based pricing methodology for Bangladesh to guide its future spectrum assignment roadmap.
- (c) **Bandwidth and Market Impact:** Assess the impact of assigning larger spectrum bandwidths on price levels, market competition, and overall efficiency.
- (d) **Regional Benchmarking:** Evaluate the consistency of Bangladesh’s spectrum pricing with neighboring and comparable economies to ensure competitiveness and investment attractiveness.
- (e) **Economic and Social Impact Assessment:** Examine the contribution of spectrum resources to user welfare, digital inclusion, and overall socio-economic development, including GDP growth and sectoral productivity.

4. Deliverables

The Consultant/Researcher(s) shall be responsible for delivering the following outputs in accordance with the agreed timeline and quality standards.

Deliverable #	Deliverable	Description
Deliverable 1	Inception Report	The Inception Report shall include: <ul style="list-style-type: none"> ▪ Confirmation and refinement of the assignment objectives and scope; ▪ Detailed research methodology for techno-economic, economic, and social valuation; ▪ Identification of data sources, key assumptions, and limitations; ▪ Stakeholder consultation approach; ▪ Detailed work plan, timeline, and milestone schedule.
Deliverable 2	Data Collection and Validation Plan	The Consultant shall submit a comprehensive plan outlining: <ul style="list-style-type: none"> ▪ Data requirements and sources (primary and secondary); ▪ Procedures for data validation, normalization, and benchmarking; ▪ Approach to addressing data gaps and confidentiality constraints.
Deliverable 3	Techno-Economic Spectrum Valuation Report	This report shall present: <ul style="list-style-type: none"> ▪ Cost-based and value-based spectrum valuation analyses; ▪ Assessment by spectrum band categories (e.g., low, mid, high frequency bands); ▪ Analysis of emerging radio technologies and future network evolution; ▪ Operator revenue, cost, and demand modeling;

Deliverable #	Deliverable	Description
		<ul style="list-style-type: none"> ▪ Sensitivity and scenario analyses.
Deliverable 4	Spectrum Valuation Models and Tools	<p>The Consultant shall provide:</p> <ul style="list-style-type: none"> ▪ Financial and economic models used in the valuation; ▪ Clear documentation of assumptions, formulas, and parameters; ▪ Scenario-based spectrum price estimates relevant to Bangladesh.
Deliverable 5	Review of Spectrum Pricing Frameworks	<p>This deliverable shall include:</p> <ul style="list-style-type: none"> ▪ Review of administrative, auction-based, and hybrid spectrum pricing models; ▪ International case studies and best practices; ▪ Assessment of applicability to Bangladesh's regulatory and market context.
Deliverable 6	Recommended Spectrum Pricing Framework for Bangladesh	<p>The Consultant shall propose:</p> <ul style="list-style-type: none"> ▪ An evidence-based spectrum pricing framework tailored to Bangladesh; ▪ Principles for reserve price setting and spectrum fee determination; ▪ Policy alignment with competition, investment, and digital inclusion objectives; ▪ A roadmap for future spectrum assignment and pricing.
Deliverable 7	Draft Final Report	A consolidated draft report synthesizing all findings, conclusions, and policy recommendations.
Deliverable 8	Final Report	<p>A consolidated report synthesizing all findings, conclusions, and policy recommendations. This report shall also include the followings:</p> <ul style="list-style-type: none"> ▪ Bandwidth and Market Impact Assessment Report ▪ Regional and International Benchmarking Report ▪ A complete and documented dataset of benchmarking indicators and methodologies shall be submitted. ▪ Economic and Social Impact Assessment Report ▪ A concise, decision-oriented policy brief summarizing key findings and recommendations for senior policymakers. ▪ A presentation suitable for regulatory, ministerial, and industry stakeholders summarizing the study outcomes. ▪ Submission of all datasets, models, tools, and user guides developed under the assignment.

5. Acceptance and Approval

All deliverables shall be subject to review and approval by the Client. The Consultant shall address comments and revise deliverables as required prior to final acceptance. All payments shall be subject to applicable **tax deductions at source** in accordance with the laws of Bangladesh.

6. Detailed Timeline and Milestones

The Consultant/Researcher(s) shall complete the assignment according to the following indicative timeline:

Milestone	Deliverables	Expected Timeframe (from Contract Signing)
M1	Inception Report and Data Collection & Validation Plan (Deliverables 1-2)	Within 3 weeks
M2	Techno-Economic Valuation Report and Valuation Models (Deliverables 3-4)	Within 8 weeks
M3	Review of Spectrum Pricing Frameworks and Recommended Framework (Deliverables 5-6)	Within 12 weeks
M4	Draft Final Report (Deliverable 7)	Within 14 weeks
M5	Final Report, Policy Brief, Presentation, and Final Handover (Deliverable 8)	Within 16 weeks

7. Payment Milestones

Payments shall be made against successful completion and formal acceptance of deliverables by the Client, as per the following schedule:

Payment Milestone	Linked Deliverables	Percentage of Contract Value
P1	Approval of Inception Report and Data Plan (Deliverables 1-2)	10%
P2	Approval of Techno-Economic Valuation Report and Models (Deliverables 3-4)	25%
P3	Approval of Spectrum Pricing Framework Review and Recommendations (Deliverables 5-6)	20%
P4	Approval of draft Final Report (Deliverable 7)	20%
P5	Approval of Final Report, Policy Brief, Presentation, and Full Handover (Deliverable 8)	25%

8. Required Competencies

- (a) Advanced understanding of **valuation of assets, financial analysis, public policy, and development economics**, with demonstrated ability to value natural resources, such as radio spectrum in both economic and social terms.
- (b) Strong academic and analytical background in **market analysis, macro and microeconomics, monetary policy, and corporate finance**.
- (c) Proven experience in **conducting, publishing, and presenting high-quality research** on topics related to telecommunications economics, spectrum policy, or infrastructure valuation etc.

9. Selection Criteria/Qualifications

(a) Education:

- Master's degree in **business administration, development economics, or public policy from a reputed university**.
- A **PhD** from a reputed university in any of the aforementioned fields will be considered as an additional advantage.

(b) Experience and Skills:

- Minimum 10 years of progressively responsible professional experience in relevant areas such as public policy, financial analysis, or valuation of natural resources.
- Experience in **telecommunication policy, spectrum management or spectrum pricing** will be given preference.
- A doctoral degree in aforementioned areas may be considered equivalent to three years of work experience.
- Demonstrated experience in collaboration with national governments, regulatory agencies, and international development institutions in the areas of telecommunications policy, economic regulation, and investment analysis.
- Excellent analytical and communications skills and ability to write clearly and concisely;
- Strong interpersonal skills and ability to work effectively in a team-based environment and under tight time constraints.
- Ability to provide the full range of operational assistance with independent responsibility.
- Demonstrated ability to carry out research and analytical tasks and to contribute to resolution of sector and country issues.
- The Consultant shall not be under a declaration of ineligibility by the Government of Bangladesh.
- The Consultant shall not be involved in any conflict of interest that could compromise the objectivity of the assignment.

(c) Language:

- Excellent proficiency in English, both written and verbal, is essential.

10. Instruction for Submission

- (a) Interested individuals are requested to submit their Curriculum Vitae (CV).
- (b) The application shall include the following documents:
 - Detailed profile of the researcher
 - Technical proposal outlining understanding of the assignment and approach
 - Financial proposal
 - Relevant references and experience
- (c) The CVs must be submitted via email (**dgsm@btrc.gov.bd, shamsuzzoha@btrc.gov.bd**) to the following address by **[03 May 2026]**
- (d) Envelope/subject of email should clearly mark **"CV for the Selection of Individual Consultant/Researcher to Conduct Research on Economic and Social Valuation of Spectrum in Bangladesh"**.