



Pakistan
Space Activities
Regulatory
Board

Request for Expression of Interest (EOI)

[Consultancy Services for Development of Space Regulatory Framework for Pakistan]

Pakistan Space Activities Regulatory Board (PSARB) invites electronic Expression of Interest (EOI) from the internationally reputed Consultant(s)/ Consultancy Firm(s) for 'Consultancy Services for Development of Space Regulatory Framework for Pakistan'. Method of selection will be 'Quality and Cost Based'.

2. Electronic EOI document, containing detailed requirements, terms and conditions is available on e-Pak Acquisition and Disposal System (EPADS) at (<https://eprocure.gov.pk>), PPRA (www.ppra.org.pk) and PSARB (<https://psarb.gov.pk>) websites.

3. The Electronic EOI shall only be submitted through EPADS on or before on 01 Nov 2024 at 1100 hours PST. Manual bids shall not be accepted. The electronic EOI shall be opened on the same day through EPADS at 1200 hours PST.

4. In terms of Rule 48 of Public Procurement Rules, 2004 Grievance Redressal Committee (GRC) is constituted for subject consultancy. Notification of said GRC is provided on PSARB website (<https://psarb.gov.pk>) and on EPADS at (<https://eprocure.gov.pk>).

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Pakistan Space Activities Regulatory Board

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Expression of Interest (EOI)

Consultancy Services for Development of Space Regulatory Framework for Pakistan

(September 2024)

1. Introduction

- 1.1. Pakistan Space Activities Regulatory Board (PSARB) has been established by the Federal Government under the Pakistan Space Activities Rules - 2024 for regulation of all matters/ activities related to Outer Space and Upper Atmosphere in Pakistan.
- 1.2. PSARB intends to develop a world-class cutting-edge space regulatory framework for Pakistan that stimulates the domestic space economy, spurs its growth, ensures transparency, attracts foreign investment and reaps transformative benefits.
- 1.3. In order to develop the space regulatory framework in line with the best international practices, PSARB invites electronic Expression of Interest (EOI) from the internationally reputed Consultant(s)/ Consultancy Firm(s) for ‘Consultancy Services for Development of Space Regulatory Framework for Pakistan’. Method of selection will be ‘Quality and Cost Based’.

2. Instructions for EOI

- 2.1. The electronic EOI document, containing detailed requirements, terms and conditions is available on e-Pak Acquisition and Disposal System (EPADS) at (<https://eprocure.gov.pk>), PPRA (www.ppra.org.pk) and PSARB (<https://psarb.gov.pk>) websites.
- 2.2. The Electronic EOI shall only be submitted through EPADS on or before on 01 Nov 2024 at 1100 hours PST. Manual bids shall not be accepted. The electronic EOI shall be opened on the same day through EPADS at 1200 hours PST.
- 2.3. In terms of Rule 48 of Public Procurement Rules, 2004 Grievance Redressal Committee (GRC) is constituted for subject consultancy. Notification of said GRC is provided on PSARB website (<https://psarb.gov.pk>) and on EPADS at (<https://eprocure.gov.pk>).
- 2.4. The Consultant(s)/ Consultancy Firm(s) firm should possess proven qualification for technical, legal as well as financial expertise in the space regulatory domain. It should possess substantive vast previous experience in development of national space regulatory frameworks. Details of the

qualification and experience should be provided in the EOI.

- 2.5. The Consultant(s)/ Consultancy Firm(s) will state the key considerations, the envisaged scope of work, development methodology and deliverables in its proposal against EOI for the following work packages, and any additional warranted, envisaged for “**Development of Space Regulatory Framework for Pakistan**” based on the requirements defined in the Pakistan Space Activities Rules - 2024 (available at www.psarb.gov.pk) and the best international practices.
- 2.6. The Consultant(s)/ Consultancy Firm(s) will be short-listed based on the ‘Evaluation Criteria’ comprising Qualification, Experience as mentioned in section 4. The EOI should accordingly provide relevant information in sufficient detail covering the aspects mentioned therein to aid evaluation.
- 2.7. The Request for Proposals (RFP) will only be shared with the short-listed Consultant(s)/ Consultancy Firm(s) at later stage.

3. Scope of the consultancy services

The Consultant(s)/ Consultancy Firm(s) should provide comprehensive information based on sound reasoning in the EOI on the envisaged scope and quantum of work, the planning and strategy to undertake the work against each of the following work packages, or others if warranted, and the overall Rough Order of Magnitude (ROM) cost and implementation timeframe in this regard:

a. Work Package 1:

Benchmark analysis of licensing regimes in 10 countries spread over different ITU regions and continents to be used as a reference for formulation and drafting of a comprehensive, strong and transparent regulatory framework for registration of NGSO communication satellite constellations including LEO Broadband (BB), LEO 5G Narrowband (NB) IoT, MEO Broadband and regulation of their services and applications in Pakistan including Direct-to-Cell (DtC) as per ITU’s up-to-date Recommendations and Resolutions; furthermore, registration of GSO satellites, their applications and services including High Throughput Satellite (HTS), Direct-to Home (DTH), Fixed Satellite Services (FSS), Broadcast Satellite Services (BSS), Mobile Satellite Services (MSS), etc

in Pakistan. A report on best practices for interference management between NGSO systems and GSO networks to be provided.

b. Work Package 2:

Benchmark analysis of licensing regimes in 10 countries spread over different continents, to be used as a reference for formulation and drafting of a comprehensive, strong and transparent regulatory framework for registration of Earth Observation satellites including Optical, Synthetic Aperture Radar (SAR), meteorological, weather, scientific, etc and regulation of their services and applications in Pakistan.

c. Work Package 3:

Benchmark analysis of licensing regimes in 10 countries spread over different continents, to be used as a reference for formulation and drafting of a comprehensive, strong and transparent regulatory framework for Pakistan for Global Navigation Satellite System (GNSS), GNSS Augmentation Systems: Space Based Augmentation System (SBAS), Ground Based Augmentation System (GBAS), etc based on the applicable requirements of the International Civil Aviation Authority (ICAO), International Maritime Organization (IMO), International Committee on GNSS (ICG), etc.

d. Work Package 4:

Benchmark analysis of licensing regimes in 10 countries spread over different continents, to be used as a reference for formulation and drafting of a comprehensive, strong and transparent regulatory framework for Pakistan for all types of space launch services and applications.

e. Work Package 5:

Formulation and drafting of an effective regulatory oversight mechanism of monitoring and enforcement for ensuring the implementation of the regulatory framework developed in Work Packages 1 – 4 and the requisite technical infrastructure and manpower to undertake the same.

f. Work Package 6:

Review the current state of space sector regulatory landscape in Pakistan and

develop comprehensive recommendations for further harmonized space legislation through engagement of other regulatory stakeholders and industry engagement in line with best international practices. Foregoing in view, develop strategy and roadmap for transformation of PSARB into a Space Authority entailing an optimal institutional setup proposing its structural hierarchy, organization and functions.

g. Work Package 7:

Perform SWOT analysis of the Pakistani space market and develop recommendations for promotion of space investment to achieve technological uplift and resultant socio-economic benefits; however, maintaining a harmonized balance between public and private sector investments to safeguard the interests of the National Space Program. Furthermore, develop a mechanism for utilization of the Space R&D Fund for promotion of sustainable space investment in Pakistan through Joint Ventures (JV) and synergetic Public-Private Partnerships (PPP).

h. Work Package 8:

Develop recommendations for regular market surveys and metricization of space economy. Recommend and implement a comprehensive training and capacity building plan for PSARB, recommend measures for national space economy surveys and international outreach such as acquiring membership of international bodies and participation in international forums.

The consulting firm shall also provide the Rough Order of Magnitude (ROM) cost and the estimated timeframe for completion of the comprehensive work envisaged in the work packages.

4. Evaluation criteria

The following evaluation criteria will be followed for short-listing of the consulting firms:

S. No.	Evaluation Criteria	Marks
1	<u>Qualification:</u> Relevant qualification, high-level competence, extensive space regulatory knowledge and established presence of the Consultant(s)/ Consultancy Firm(s) in worldwide markets	20
2	<u>Experience:</u> Evidence-based extensive, diverse, rich and wealth of global experience of the Consultant(s)/ Consultancy Firm(s) in worldwide markets for development of the national space regulatory frameworks	20
3	<u>Quality of services</u> Key planning and strategy considerations, envisaged scope and quantum of work, structured methodology based on Logical Framework Approach to undertake the work and clearly defined deliverables for the work packages defined in section 3, and any additional warranted, for space regulatory framework development for Pakistan	40
4	<u>Miscellaneous</u> Overall Rough Order of Magnitude (ROM) cost and estimated completion timeframe of the total work mentioned in the work packages	20

5. Point of Contact (PoC)

The Point of Contact (PoC) of PSARB for the subject EOI is as follows:

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