



Sui Northern Gas Pipelines Limited  
Tender Enquiry No. SNGPL/NP&D/GIS/EOI/03/26

Expression of Interest (EOIs) For the Provision of  
Professional Geographic Information System (GIS)  
Services

# **EXPRESSION OF INTEREST (EOIs) FOR THE PROVISION OF PROFESSIONAL GEOGRAPHIC INFORMATION SYSTEM (GIS) SERVICES**

**TENDER ENQUIRY NO. SNGPL/NP&D/GIS/EOI/03/26**

**NETWORK PLANNING & DESIGN DEPARTMENT  
GAS HOUSE, 3RD FLOOR, 21-KASHMIR ROAD  
LAHORE-PAKISTAN**



**SUI NORTHERN GAS PIPELINES LIMITED**



## SIGNED & STAMPED CHECK LIST OF DOCUMENTS TO BE SUBMITTED BY THE BIDDER

Bidder is essentially required to mark (√) in Column (1) & (2) of the table below:

| Sr. No. | Description   | Attached (1) | Not Attached (2) |
|---------|---|--------------|------------------|
| 1       | Duly signed, filled and stamped each page of tender documents.  |              |                  |
| 2       | Company's details covering Company's Name, Business & Origin, year of incorporation, staff strength, legal status, organogram, Contact address in Pakistan and official email address   |              |                  |
| 3       | Proof of financial Soundness. The bidder shall submit last three (03) years audited financial statements/ reports.  |              |                  |
| 4       | List of similar projects/contracts executed during the last 10 years & relevant projects in hand with completion certificates / relevant proof documents. (Contact numbers and email addresses of each client should be mentioned). |              |                  |
| 5       | Valid NTN, Professional Tax registration certificates.  |              |                  |
| 6       | Resumes / CVs of the Key Project Staff to be deployed on this project.  |              |                  |
| 7       | Affidavit declaring that the company is not Blacklisted by any Government or Public Sector Organization in Pakistan.  |              |                  |
| 8       | Registration Certificate of firm & individuals from Survey of Pakistan (SOP).   |              |                  |
| 9       | Detailed Methodology proposed for carrying out the GIS Services   |              |                  |
| 10      | Any other documents which you may wish to enclose in support of qualification   |              |                  |



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## 1. Invitation for Expression of Interest

In accordance with **Rule 36(b) of the Public Procurement Rules, 2004 (PPRA)**, Sui Northern Gas Pipelines Limited (SNGPL), hereinafter referred to as “*the Procuring Agency*”, invites **Expressions of Interest (EOIs)** from **reputable GIS Firms** for **shortlisting** for the provision of **Professional GIS services in Punjab and Khyber Pakhtunkhwa (KPK)** provinces.

## 2. Introduction & Background:

Sui Northern Gas Pipelines (SNGPL) is one of the largest public sector organization of Pakistan, with a franchise area including Punjab & KPK provinces and Mirpur, AJK, operating with **17 Regional offices (Annexure-I)**. GIS technology is introduced in SNGPL to replace paper mapping system with centralized digital mapping environment. In the last couple of years, considerable portion of SNGPL’s pipeline network has been digitized and is available on **SNGPL’s Enterprise GIS Portal** for the users across SNGPL’s franchise offices. The SNGPL’s GIS Portal is serving **500+ users**, and several Apps and Dashboards are facilitating the management and the users for monitoring, management and decision making.

In order to carry out the digital mapping and other GIS related tasks in SNGPL, a team of well-trained GIS Professionals is currently working in SNGPL. These professionals are digitizing the distribution/transmission network of SNGPL, performing data modification/ validation activities and developing modifying GIS Apps and dashboards.

GIS professionals are required through prospective firms, who should be deputed in regional offices (initially in **Lahore East, Lahore West, Islamabad, Rawalpindi, Faisalabad, Multan and Peshawar**) as well as in GIS Lab for rolling-out the GIS project at regional offices to replace and eliminate the manual mapping activities through GIS system. Any data editing or modification in existing pipeline network and associated features should be performed at the corresponding regional office to ensure timely data update. The **GIS services in GIS Lab** are needed to carry out **perpetual GIS operations** at head office, including trouble shooting, backup and restore operations of the Enterprise GIS system along with the integration of regional data layers into central database and developing apps/dashboards/ web data layers using GIS Portal.



### 3. Desired Technical Skills of GIS Personnel

In order to perform designated jobs, each experience level should have specific skills and professional knowledge, detail of the desired skill-set is mentioned below;

| Sr.No. | Level                        | Skill-Set   |
|--------|------------------------------|---|
| 1      | Senior Officer GIS           | <ul style="list-style-type: none"><li>• Demonstrable proficiency of ArcGIS suite, ArcGIS Pro, ArcGIS Enterprise, and open-source (QGIS).</li><li>• Ability to perform proximity analysis, network analysis, interpolation, and terrain mapping.</li><li>• Managing, editing, and cleaning large spatial datasets.</li><li>• Processing satellite imagery and creating accurate, visually appealing maps.</li><li>• Familiarity with data conversion tools.</li><li>• Explaining complex spatial findings to non-technical stakeholders via dashboards and web maps.</li><li>• Translating real-world problems into spatial questions.</li><li>• Managing deadlines and team workflows.</li><li>• Using web applications/ Dashboards, ArcGIS Portal.</li></ul> |
| 2      | Executive Officer GIS        | <ul style="list-style-type: none"><li>• Demonstrable proficiency of ArcGIS suite, ArcGIS Pro, ArcGIS Enterprise, and open-source alternatives like QGIS.</li><li>• Ability to perform proximity analysis and network analysis.</li><li>• Processing satellite imagery and creating accurate, visually appealing maps.</li><li>• Familiarity with data conversion tools.</li><li>• Translating real-world problems into spatial questions.</li><li>• Managing deadlines and work flows.</li></ul>  |
| 3      | Officer GIS                  | <ul style="list-style-type: none"><li>• Demonstrable proficiency of ArcGIS suite and open-source alternatives like QGIS.</li><li>• Creating accurate, visually appealing maps.</li><li>• Familiarity with data conversion tools.</li><li>• Translating real-world problems into spatial questions.</li><li>• Managing workflows.</li></ul>  |
| 4      | Executive Officer GIS App/DB | <ul style="list-style-type: none"><li>• Demonstrable proficiency is ArcGIS Pro and ArcGIS Enterprise.</li><li>• Managing, editing, cleaning and backup/restore of ORACLE/ PostGres database.</li><li>• Publishing web data layers and development of GIS dashboards and GIS App using ArcGIS Enterprise.</li><li>• Proficiency in C++, Java, Python and Arcade expressions.</li></ul>   |
| 5      | Officer GIS App/DB           | <ul style="list-style-type: none"><li>• Demonstrable proficiency is ArcGIS Pro and ArcGIS Enterprise.</li><li>• Editing, cleaning and backup/restore of ORACLE/ PostGres database.</li><li>• Publishing web data layers.</li><li>• Proficiency in C++, Java, Python.</li></ul>  |



#### 4. Desired Qualification / Experience

| Sr. No. | Level                           | Qualification   | Professional GIS Experience |
|---------|---------------------------------|---|-----------------------------|
| 1       | Senior Officer GIS              | BS/MS/MSc/BS Hons.<br>Geography/ GIS/ Space<br>Science /Geomatics | 10 – 15 Years               |
| 2       | Executive Officer GIS           |   | 5 – 10 Years                |
| 3       | Officer GIS                     |   | 1 – 5 Years                 |
| 4       | Executive Officer GIS<br>App/DB | BS/MSc/MS Computer<br>Science                                     | 3 – 5 Years                 |
| 5       | Officer GIS App/DB              |   | 1– 3 Years                  |

#### 5. Scope of Work

The scope of the requisite GIS services must include but not limited to:

- Scanning and cataloguing of paper maps.
- Geo-referencing/ Tiling/mosaicking and sub-setting of scanned maps and satellite imagery.
- Downloading, stitching and geo-referencing of latest imagery where required.
- GPS based field surveying/ validation of field survey data as required by Regional staff.
- Digitization, editing and data entry of streets, roads, land marks, houses, pipeline network and associated features/layers according to the requirement of Regional staff.
- Perform network/ spatial/ geo-statistical analysis on data layers.
- Design and print maps for daily operations according to the requirement of Regional staff.
- Data extraction, modification and manipulation for Regional Staff's daily day operations.
- Analyze regional staff's Geo-data requirements and develop data layers accordingly.
- Geo-database and Centralized ORACLE DB development and management.
- Publishing web GIS Layers for GIS portal to cater the requirement of Regional GIS users.
- Enterprise GIS servers' installation, management, up-gradation, backup and restore.
- Web App/dashboard designing and development using Enterprise GIS.
- Widget/Dashboard/App customization using ArcGIS Developer Suite.
- Trouble shooting and GIS Portal user management.
- GIS Portal user accounts, roles and privileges management.
- Trained / Educate the GIS users in regional offices for using GIS Apps/Dashboards.



## 6. Eligibility and Evaluation Criteria

EOIs will be accepted only from SOP registered firms that meet the following criteria and provide documentary evidence of the same:

| Sr. No.      | Eligibility and Evaluation Criteria   | Total Marks | Min. Marks | Marks Obtained |
|--------------|---|-------------|------------|----------------|
| 1            | <b>Firm's Relevant Experience of GIS Consultancy</b><br>- 10+ Years<br>- 5 to 10 Years  | 10          | 5          |                |
|              |   | 5           |            |                |
| 2            | <b>Registration from Survey of Pakistan</b><br>- Registered GIS Firm<br>- Minimum 05 Registered GIS Professionals   | 5           | 5          |                |
|              |   | 5           |            |                |
| 3            | <b>Number of Successfully Completed GIS projects</b><br>- Above 05<br>- Minimum 05  | 10          | 5          |                |
|              |   | 5           |            |                |
| 4            | <b>Number of Successfully completed GIS projects in Utility/Oil/Gas Sector</b><br>- Minimum 01  | 5           | 5          |                |
| 5            | <b>Successful Experience of Implementing Enterprise GIS</b><br>- Minimum 01   | 10          | 10         |                |
| 6            | <b>Deployment Experience of Enterprise Systems</b><br>- ArcGIS Enterprise 11.x or latest<br>- ORACLE 12c or Latest  | 5           | 5          |                |
|              |   | 5           |            |                |
| 7            | <b>Qualifications/ Experience of GIS Professionals</b><br><br><u><i>MSc/MS/BS (GIS/Geography/Gemetrics/Space Science)</i></u><br>- 10+ Years' experience (05 Professionals)<br>- 05 – 10 Years' experience (10 Professionals)<br>- 01-05 Years' experience (15 Professionals)<br><br><u><i>MSc/MS/BS (Computer Science)</i></u><br>- 03 – 05 Years Enterprise GIS experience (02 Professionals)<br>- 01 – 03 Years Enterprise GIS experience (03 Professionals)<br><br><u><i>Working Experience of Utility Network Digitization</i></u><br>- Gas Pipeline Network<br>- Other Utility Networks | 5           | 5          |                |
|              |   | 5           |            |                |
|              |   | 5           |            |                |
|              |   | 5           | 5          |                |
|              |   | 5           |            |                |
|              |   | 5           | 5          |                |
|              |   | 5           |            |                |
| 8            | <b>Financial Soundness</b><br><br>Bidder shall submit audited accounts duly certified by chartered auditor of past 03 years as proof of financial soundness.<br>- Average annual turnover is equal to or greater than Rs. 50 Million.<br>- Average annual turnover Rs. 45 – 50 Million.<br>- Average annual turnover less than Rs. 45 Million.  | 10          | 5          |                |
|              |   | 5           |            |                |
|              |   | 0           |            |                |
|              |   |             |            |                |
| <b>Total</b> |   | <b>100</b>  | <b>65</b>  |                |



Notes:

1. Clauses 1 to 8 are mandatory requirements, and bidders must comply with all of them. Non-compliance with any clause may result in rejection of the bid.
2. Attach the documentary evidences of each above.
3. Attach CVs of certified Experts, revealing qualification and relevant experience with documentary evidences.
4. Attach copies of work orders of completed projects along with contact details, email addresses and contact numbers of clients.

## 7. Methodology

The bidder should submit a comprehensive methodology about **How the Scope of the work** will be achieved including following details;

- Logical Step-By-Step conceptual framework aligning with recognized latest GIS and IT architecture standards (e.g., ESRI best practices, ISO/OGC standards, where applicable) of using specific methods, tools, techniques and resource allocation for data collection, data creation, data modification / updatation and data sharing.
- Quality Assurance & Risk Management to ensure data accuracy and data security.
- Framework for progress monitoring and project evaluation.

## 8. Short-listing

Securing **minimum marks** against **each clause** is mandatory. Firms scoring **65 marks or above** shall be shortlisted and invited to participate in the **next-stage Request for Proposal (RFP)**. **Joint ventures / consortiums** are not eligible for this EOI.

## 9. PPRA Disclaimer

- This EOI is for **short-listing purposes only**
- The Procuring Agency (SNGPL) reserves the right to accept or reject any or all EOIs under PPRA Rules
- No financial proposal is required at this stage.

## 10.Submission Deadline

- EOIs must be submitted/uploaded at EPADS on or before **30<sup>th</sup> of July 2026** till 11:00 hrs.
- All correspondence with regards to this tender shall be directed to the following address;

"General Manager (NP&D)"  
3<sup>rd</sup> Floor, Gas House  
21- Kashmir Road, Lahore  
Ph. No. 042 – 99201376  
Email ID: salman.arshad@sngpl.com.pk



**Annexure - I**

**List of SNGPL's Regions**

1. Lahore East
2. Lahore West
3. Islamabad
4. Rawalpindi
5. Faisalabad
6. Multan
7. Peshawar
8. Gujranwala
9. Bahawalpur
10. Shiekhupura
11. Gujrat
12. Sialkot
13. Sargodha
14. Sahiwal
15. Mardan
16. Karak
17. Abbottabad