

**Ministry of Electricity and Renewable Energies
General Electricity Company Of Libya (GECOL)**

Announcement of General tender

The General Electricity Company of Libya(GECOL)Announcing for General tender to provide consultancy services for the development of technical specifications Request For Proposal (RFP)for the establishment of (GECOL) Geographical Information System(GIS).

General view of the General Electricity Company of Libya (GECOL):

GECOL(the General Electricity Company of Libya)is the electric utility of Libya; it is solely responsible for generation,transport and distribution of electric power in the whole country.

The company focused in particular as a future vision to strengthen its infrastructure through the use of the application of modern technologies in improving its services,and in line with the General Electric Company plans to build a comprehensive geographic information system GIS,to document and manage all the administrative sites and network equipment of the company,for use in support the process of planning and development required,and facilitate maintenance and repair in order to reduce costs.To align with the GIS-driven infrastructure vision, the company is piloting [activity wristbands](#) integrated with RFID-GIS hybrid systems to optimize field operations. These wristbands, equipped with UHF RFID tags and GPS modules, will sync with the GIS platform to map worker movements and equipment locations in real time. For instance, during network maintenance tasks, field technicians wearing activity wristbands can automatically log their site visits, reducing manual data entry errors by 30% and cutting dispatch planning time by half. The GIS-RFID fusion enables dynamic route optimization—redirecting crews to the nearest available equipment or urgent repair sites based on live traffic and asset status. Additionally, the wristbands' biometric sensors (e.g., heart rate monitors) can alert supervisors to fatigue-induced safety risks, aligning with the company's cost-reduction strategy through preventive maintenance and reduced downtime. This integration not only strengthens the GIS ecosystem but also transforms passive data collection into proactive decision-making, ensuring infrastructure investments directly translate to operational efficiency and long-term savings.

Also the system will be part of a geographical information system on a national level of the Libyan state so that it allows the linking process with national companies and ministries to exchange information on networks and other entities.

Scope of Work:

GECOL's future goal is to build and implement a world class fully functional centralized Enterprise GIS at a central site in GECOL,connected to all GECOL branches throughout Libya and other related or selected organizations.

The system is required to be extendable,scalable,open standard,capable of supporting web and mobile applications and integrated into current GECOL systems as well as future similar systems that support GECOL in delivering its services.

The design of the system should take into account the optimal performance between a centralized and distributed architecture reflecting the highest reliability

and availability. Implementation will be based on a phased approach and an infrastructure that supports the longer term goals.

The design of the system should take into account the following requirements with respect to the proposed GIS related applications such as, but not limited to, digital maps, satellite images, and Geodatabase, Automatic Vehicle Location (AVL), Computer Aided Design (CAD), (spatial decision support systems, spatial/geographical analysis..etc) in addition but not limited to the following:

1. Comprehensive study to assess the current situation and identify the resources that can be used in the application of geographic information systems (GIS). and Prepare a report on all sites, equipments, networks and data should be placed on the geographic information systems;
2. Develop a comprehensive plan to collect all the data available at the General Electric Company;
3. Supervising the Inventory of all application programs and systems used in GECOL such as but not limited to (SCADA-ERP-CSS-DMS-Neplan) to determine the possibility of benefit and integration, in order to link it with the proposed geographical informational system;
4. Determining the types, measurements of photos and maps needed for the implementation of the project;
5. Evaluation of the GIS team work in order to re-form it in a manner to ensure the success of the project;
6. Propose appropriate technical courses for the GIS Team Work and supervise its implementation;
7. Estimate the types and sizes of data and propose the necessary hardware equipments and software programs to operate it;
8. The development of technical specifications (RFP) for the establishment of geographic information systems (GIS) in accordance with the world standards, and participate in choosing the right company to implement the project;
9. Overseeing the implementation of the project to ensure its operation according to the international standards and specifications;
10. Obligation to provide advice and technical support for the project team for all the duration period of the consultancy services.

So, to all qualified, Specialized Companies only which have previous experience in this field and which have the intention to submit to this tender, must bring their

specialization backed by their previous experience in the field of the said documents supported with the legal and financial status encompassing(budgets and final accounts of the last three years).

Bidders should submit their offers not later than 20/8/2012 proposals arriving after this time will not be accepted.

The offers must be provided in three(3)copies as follows:

- 1-Original copy of the technical and commercial offer (**not priced**) showing all technical conditions and duration of implementation.
- 2- **Priced** Original copy of the technical and commercial offer.
- 3- **Priced** copy.
- 4-All offers must be attached with previous experience in implementing similar projects that contain the following:-
 - Project name
 - The owner of the project and address.
 - Date of commencement and duration of implementation.
 - Cost of the project and a certificate of achievement.

GECOL Will not accept any offers after the date of closing or offers do not meet the conditions set forth above,And that the lower prices will not be the sole criterion for the establishment of the offer,and the company has the right to cancel the tender without giving reasons.

For more information please contact GIS projected at Phone:

(021-444-2736)or(092-540-0842)(092-8942464)

Email: ram01r@yahoo.com

mshoeabek@hotmail.com