Request for Expressions of Interest

2. Agency: Dhaka Electric Supply Company Limited (DESCO)
3. Procuring Entity Name: Procurement, Inspection & Testing Division, DESCO.
4. Procuring Entity District: Dhaka, Bangladesh

6. RFP No.: 42/2016
7. Invitation Ref No.: DESCO/P,I&T/Procurement/RFP/2016/1064
8. Date: 06/09/2016

KEY INFORMATION
9. Procurement Method: Quality Cost Based Selection (QCBS)

FUNDING INFORMATION
10. Budget and Source of Funds: DESCO’s own fund

PARTICULAR INFORMATION
11. EOI Closing Date, Time & Place: Date: 06/10/2016; 1200 hr BST
The EOI shall be submitted in three sets (one original and two copy) in sealed envelopes to the address mentioned below:
Office of the Superintending Engineer (Procurement, Inspection & Testing), DESCO Plot # 22/B, Faruque Sarani, Nikunja # 2, Uttara, Dhaka-1229

INFORMATION FOR APPLICANT
12. Brief Description of Assignment: Scope of major services under the proposed assignments include but not limited to the following:

A. Survey of Distribution System, Preparation of Line Sketch, Single Line Diagram, Database and Plan for Multi-Platform GIS Based Application for the Management of Distribution Network:
   i) Detail survey and Inventory of Existing Distribution Network with Preparation of Feeder Wise Line Route Sketch and Survey of Distribution Transformer with measurement of Loads etc.
   ii) Preparation of Single Line Diagram of all 132KV, 33KV, 11KV and 0.4KV feeders under DESCO.
   iii) Preparation of Database for Existing Network Elements with Flexibility Features for Modification/Expansion and Incorporation of New Fields as and when required.
   iv) Preparation of proposed Network Plan based on findings of survey and supported with Necessary Engineering Analysis and Studies (Voltage Drop, Sectionalizing, System Loss etc.) showing Network Route Sketch with BOQ/Material Estimate for Renovation and Expansion works.

B. GIS Based Mapping Engineering Analysis:
   i) GPS Survey and Creation of Digital Base Map with Establishment of Geo-coordinate network Configuration and Preparation of GIS Network Map by Plotting and Digitization of all Network Element; on Digital Base Map.
   ii) GIS Integration: GIS Mapping, Identification and Codification of Electrical Consumers and Network Elements with Defining Electrical Relationship to facilitate on-line Query with Graphic Display of Network Section, Showing Particulars of Network Elements and their Attributes and Asset Management system etc.
   iii) GIS Mapping shall be done by using Suitable GIS Software Packages and shall have all Features/facilities incorporated for future Distribution Network Planning, Engineering Analysis, Studies, Asset management etc.
   iv) GIS Based Mapping coupled with engineering analysis software for distribution system analysis for technical, financial & operational requirement.

C. Preparation of 25 years Master Plan:
   (i) Prepare DESCO master plan with (short term, mid-term and long term basis) demand forecast up to 2041 considering different options and scenario.
   (ii) Analyze the system demand data, load curve, consumer growth, consumption growth, per capita consumption, historical demand growth for proper estimation of future demand.
(iii) Review and analyze existing infrastructure and propose new construction/renovation of 132 KV line, 132/33 KV grid substation, 33KV sub-transmission line, 33/11KV sub-station, and 11KV feeder lines etc.

D. Capacity Building of DESCO Personnel

i) Provide overall Training on GIS Software Package for Capacity Building of DESCO Personnel.

ii) For Practical experience under the Training Program, a Particular area of DESCO shall have to be selected as a Pilot Project for conducting Detail Activities (GIS Based Planning, Load Forecast Various Distribution System Analysis, Studies and Preparation of BOQ/Material Estimate for Future Expansion and renovation of Distribution Network etc.) in order to make the trainee (DESCO personnel) capable to undertake the job/work in future.

N.B: Detail scope of the work will be available in the terms of reference (TOR) which can be downloaded from the website of DESCO (www.desco.org.bd) from the date of publishing of EOI.

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<th>Experience, Resources and Delivery Capacity Required</th>
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<td>i)</td>
<td>The interested firm (partners in case of JV) shall have at least 05 (five) years overall experience in the field of electrical consultancy services with at least 02 (two) nos. electrical consultancy projects having minimum total contract amount of US$ 300,000.00 (US Dollar Three Hundred Thousand Only) or equivalent in their own country/outside their own country as on the date of EOI submission. Such evidence shall be in client's letterhead indicating address, telephone and fax numbers of the clients and shall include name of the project, name of the employers, and description of the work, duration of the project and contract amount. Certificates as evidence must be written in English.</td>
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<td>ii)</td>
<td>The interested firm shall have specific experience of satisfactory completion of similar works (consulting services for survey of distribution network and preparation of database, GIS based/digitized mapping, planning, preparation of BOQ/material estimate and provide training for capacity building of client's personnel) in 3 (three) contracts over a period during the last 7 (seven) years amounting to minimum US$ 480,000.00 (US Dollar Four Hundred Eighty Thousand only) or equivalent. The above experience shall be supported by client's certificate in their letterhead indicating their address, telephone &amp; fax number and details of project, (i.e. name of the project, name of the employers, and description of the work, duration and contract amount). Certificates as evidence must be written in English.</td>
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<td>iii)</td>
<td>The interested firm shall have minimum average annual turnover of US$ 600,000.00 (US Dollars Six Hundred Thousand Only) calculated as total certified payments received for contracts in progress or completed, within the last 3 (three) years.</td>
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<td>iv)</td>
<td>The interested firm shall submit audited financial reports and income statement or, if not required by the law of applicants country, other financial statements acceptable to the employer for the last 3 (Three) years to demonstrate the current soundness of the applicants financial position and its prospective long-term profitability.</td>
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<td>v)</td>
<td>The interested firm shall have requisite number of appropriate key professionals like Minimum Graduate Computer / Electrical / Mechanical Engineers and GIS experts experienced in the relevant fields (e.g. Survey, GIS based / digitized mapping and distribution network planning etc.) to carry out the proposed consulting services and shall furnish the list of key professionals and their CV with photograph.</td>
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<th>Other details (if applicable)</th>
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<td>i)</td>
<td>Firms outside of the purchaser’s country may participate in combination with Association/JV with the local firm. In course of level of action, Joint venture firm would be liable to take consultancy support by themselves.</td>
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<td>ii)</td>
<td>Interested firms should provide information indicating that they are qualified to perform the service [Brochures, Description of similar Assignments, Experience in similar working conditions, Availability of appropriate qualification and experience among staff with signed Curriculum Vitae, list of the software to be used for GIS Mapping (Server and Desktop GIS), GIS Database and Engineering Analysis software etc. should be submitted].</td>
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<td>iii)</td>
<td>Short listing will be made and RFP document will be issued to the selected firms in accordance with the procedure set out by DESCO.</td>
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<td>iv)</td>
<td>Interested firms may obtain further information from the office of the under signed during normal office hours (09:00 to 17:00 hours BST).</td>
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Incomplete & conditional proposals will not be considered. The procuring entity reserves the right to accept or reject any/all proposals without assigning any reason whatsoever.

Engr. Md. Shofiqul Islam
Superintending Engineer (P, I & T), DESCO