



Consulting Engineers South Africa

The Voice of Consulting Engineering



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# Role of CESA in Public Sector Infrastructure Delivery

and the support it could provide to  
departments in ensuring delivery of  
sustainable infrastructure within the  
North West Province



# Who we Are

- ❖ Consulting Engineers South Africa (CESA) is a business representative organisation,
- ❖ We have a membership of approximately 505 firms employing 23 500 staff and generating an annual fee income in excess of R20 billion
- ❖ Between 80 and 90% of consulting engineering firms in South Africa are CESA members.
- ❖ We represent “Consulting Engineers” and not just Consultants as referred to in the recent report of the Auditor General.

# Who we Are (Cont'd)

- ❖ Our member firms provide independent technology-based intellectual services in the built, human and natural environment to clients.
  - ❖ offer professional engineering services and expertise to both public and private sector organisations
  - ❖ and are responsible for finding innovative solutions to technical problems
- ❖ We are affiliated to the International Federation of Consulting Engineers (FIDIC), currently we are the 7<sup>th</sup> largest member.
- ❖ We are involved in FIDIC's Regional Grouping, the Group of African Member Associations (GAMA).
- ❖ We have 12 regional offices in South Africa with a Head Office in Bryanston and currently have 17 full time staff members

# Criteria for membership/

## What constitute a proper consulting engineering company

- ❖ Over 50% of principals of the must be professionally registered engineers / technologists (regulated by the Engineering Council of South Africa – ECSA)
- ❖ Members carry a required level of **professional indemnity insurance**, which provides clients with financial recourse in the event of non-performance, insufficient design, failure or neglect caused by the engineer.
- ❖ Members implement and maintain an ISO based **Quality Management System** (QMS) and a **Business Integrity Management System** (BIMS), in terms of the CESA Code of Conduct.
- ❖ Adherence to Sustainability Framework by November 2013

# CESA's Services

*CESA promote interests of Members and Clients by:*

1. Regular **liaison** meetings and **collaboration** with clients and other organisations
2. Publication of documents relating to the profession including **advisory notes, professional best practice guidelines and case studies**
3. Publication of **the Directory of Firms** and maintenance of pre-screened database of consulting engineering firms.
4. CPD accredited **seminars and workshops** through the “School of Consulting Engineering”
5. **An Annual Convention and Engineering Excellence Awards**



# Our partners

- **Affiliates**

Commercial organisations which are not eligible for CESA membership, intend to support CESA, and gain business opportunities through such synergy.

- **Associates**

government agencies and authorities who intend to support the consulting engineering industry, and gain collaborative advantage in eradicating societal challenges such as unemployment, poverty and inequality by enhancing infrastructure delivery.

- **Sponsors**

This membership is open to commercial organisation and government agencies who intend to support CESA on particular events, not limited to the following: CESA Relay, Presidential Golf, CESA Conference and Exhibition, Young Professional's Forum

# CESA's Mission & Shared Vision

- **Uphold** engineering & professional standards and the maintenance of quality by its members
- **Enhance** the professional and business interests of its members
- **Serve** clients with professionalism, integrity and independence of judgement
- **Improve** the quality of life for all South Africans by the promotion of engineering excellence
- **Train and develop** Consulting Engineers, their staff, their clients and anyone involved in the engineering and built environment business, professional and entrepreneurial skills.
- **Create** a conducive sustainable procurement environment to enhance maintenance and infrastructure delivery, in terms of speed, time and cost (quality outcome).



# Our Shared Vision

Create a conducive procurement environment - by sharing best practice  
– in order to enhance infrastructure delivery, in terms of speed, time and cost (quality outcome).

Ensure that *the right firm(s) are appointed for the right job*

Appointment at a fair and reasonable level of compensation

Ensure continued existence and development of firm(s) and industry

Serve the best interests of public

# Best Interest of the Public



Fair and Reasonable priced services / infrastructure



Cost effective - Money spent on projects once, no rebuilding



Safe, User friendly and Reliable Infrastructure



Appropriate / accessible Infrastructure

# Pillars of Procurement

System requirement	Qualitative description of requirement
<b>Fair</b>	The process of offer and acceptance is conducted impartially without bias, and provides participating parties simultaneous and timely access to the same information. Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.
<b>Equitable</b>	The only grounds for not awarding a contract to a tenderer who complies with all requirements are restrictions from doing business with the organization, lack of capability or capacity, legal impediments and conflicts of interest.
<b>Transparent</b>	The procurement process and criteria upon which decisions are to be made shall be publicized. Decisions (award and intermediate) are made publicly available together with reasons for those decisions. It is possible to verify that criteria were applied. The requirements of procurement documents are presented in a clear, unambiguous, comprehensive and understandable manner.
<b>Competitive</b>	The system provides for appropriate levels of competition to ensure cost-effective and best value outcomes.
<b>Cost- effective</b>	The processes, procedures and methods are standardized with sufficient flexibility to attain best value outcomes in respect of quality, timing and price, and the least resources to effectively manage and control procurement processes.
<b>Promotion of other objectives</b>	The system may incorporate measures to promote objectives associated with a secondary procurement policy subject to qualified tenderers not being excluded and deliverables or preferencing criteria being measurable, quantifiable and monitored for compliance.

- National Treasury policy statement:

***“It is necessary that certain minimum standards of quality and efficiency be achieved when appointing **engineering** consultants”***

This table shows an example of Quality Criteria and Points Scale for small and large projects, using a Quality plus Financial Offer / Preference ratio 80:20 or 90:10.

**Note that the more complex the project, the higher the threshold points for Quality.** Also, of the 9 Quality Criteria, it is recommended that **not more than 6 criteria**, suited to the project type, be selected to avoid double counting from overlap between the 9 criteria. Within the 6 selected criteria, the allocation of points can be varied as shown to give the client’s weighting to each criterion, but **always totalling 100 Points for Quality**. Applicable to **METHOD 2**.

Quality Criteria	Feasibility studies & investigations	Innovative Projects	Complex Projects	Straight-forward Projects	Repeat Projects
Maximum points for Quality	100	100	100	100	100
Minimum points for Quality (Threshold)	80	80	75	60	60
1. Adequacy of proposed work plan and methodology	15	15	15	10	10
2. Qualifications & Competence of key staff in relation to the scope of work	30	30	30	20	20
3. Demonstrated experience (past performance) in comparable projects	15	15	15	15	15
4. Approach proposed to attain the employer's stated objectives	15	15	15	10	10
5. Demonstrated experience with respect to specific aspects of the project	15	15	15	10	10
6. Sound knowledge of the employer's policies or work procedures (or both)				15	15
7. QA systems which ensure compliance with employer's stated requirements	10	10	10	10	10
8. Organisation, logistics and support resources				10	
9. Demonstrable managerial ability appropriate to size & nature of the work					10





Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skilful execution; it represents the wise choice of many alternatives.

William A. Foster

The same could be said for poor quality or non-delivery...



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# THANK YOU

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