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Procurement Masterclass in the Marine and Engineering Sector

Technical Requirements for Engineering Works

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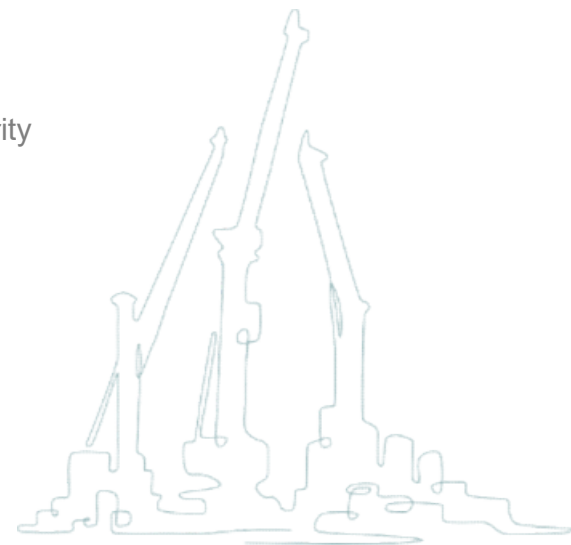


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National Ports Authority



An Overview



Fabrication of Dry Dock Inner Caisson



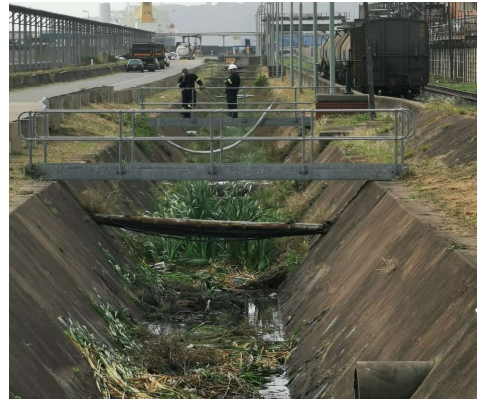
Reconstruction of Maydon Wharf Berths



DHEW – Construction of New North Breakwater



Ocean Terminal Building Repainting



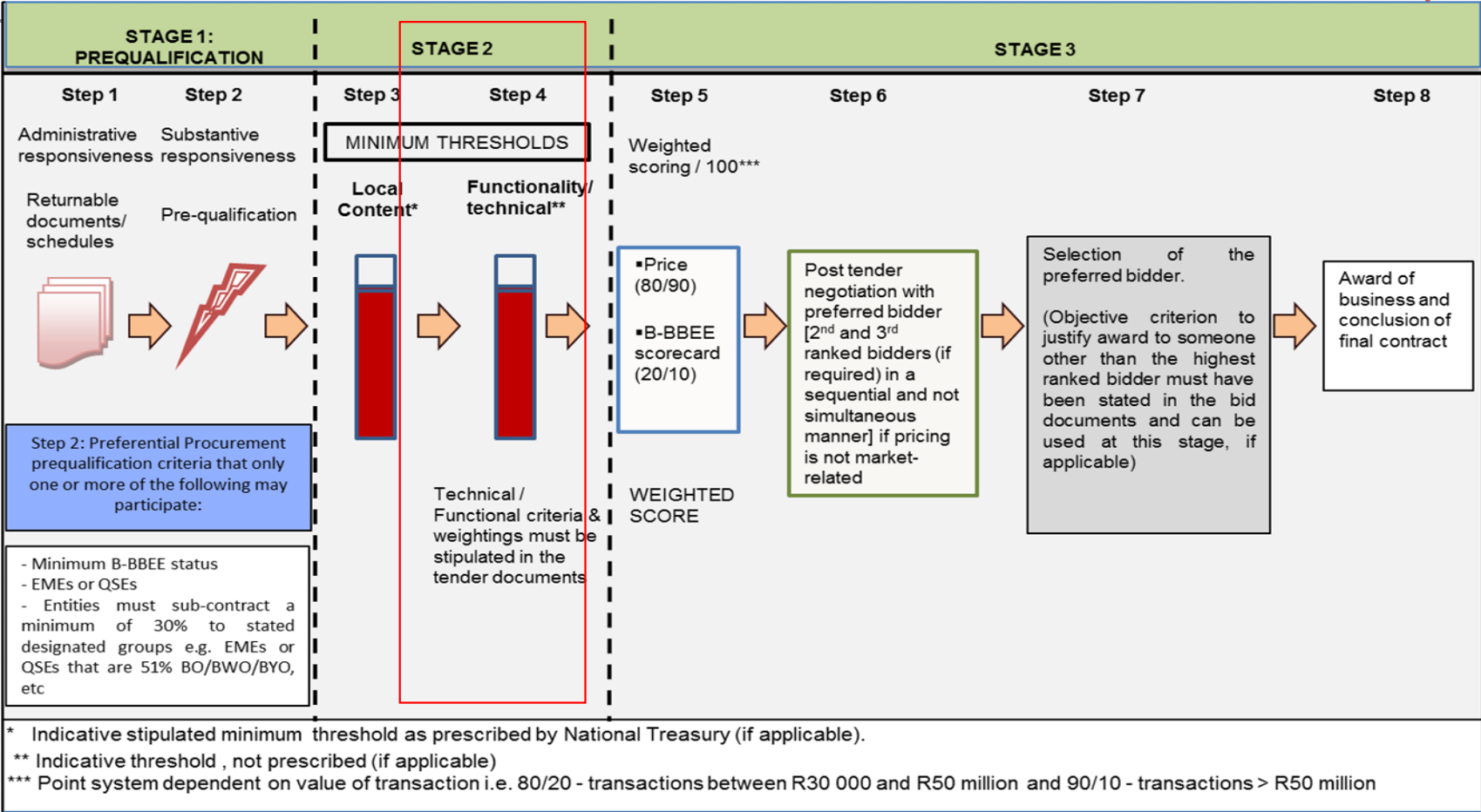
Maintenance and Cleaning of Culverts



Maintenance to burst potable water pipe



An Overview



An Overview



STAGE 2

INDICATE APPLICABLE MINIMUM THRESHOLDS (Typically 60 to 70 points)

Functionality Threshold

- Most Engineering related bids are evaluated on functionality. The evaluation criteria for measuring functionality must be objective.
- When evaluating bids on functionality, the following must be clearly specified in the invitation to submit a bid:
 - evaluation criteria for measuring functionality;
 - points for each criteria and, if any, each sub-criteria
 - minimum qualifying score/threshold for functionality.
- The minimum qualifying score for functionality may not be so low that it may jeopardize the quality of the required engineering and construction works or may not be so high that it is unreasonably restrictive
- No bid must be regarded as an acceptable bid if it fails to achieve the minimum qualifying score for functionality as indicated in the bid.
- Each tenderer that obtained the minimum qualifying score for functionality must be evaluated further in terms of price and preference point system
- All bids that attain or exceed the minimum qualifying score for functionality are regarded as "equally technically compliant"

Technical Requirements for Construction Contracts



Requirements for Small Sized Contracts – Projects under R2 million (RFQs)

- CIDB Grading – 1 to 3CE/ME/GB/SB
- Key Personnel with the following requirements depending on project size and scope:
 - Artisan (e.g. Bricklayer, Carpenter): Specific number of years' experience, Trade Certificate
 - Foreman: Specific number of years' experience
 - Health and Safety Officer: Specific number of years' experience, registration with SACPCMP as Health and Safety Officer
- Safety, Health and Environmental requirements
- Methodology/Approach Paper – this should be project specific
- Previous Experience – typically on projects of similar nature
- Programme – aligned to the approach paper

Technical Requirements for Construction Contracts



Requirements for Medium to Large Contracts

- CIDB Grading – 3CE/ME/GB/SB to 9CE/ME/GB/SB
- Key Personnel with the following requirements depending on project size and scope:
 - Contracts Manager: Specific number of years' experience, formal qualification in a relevant field (BSc, Btech)
 - Construction Manager: Specific number of years' experience, formal qualification in a relevant field (BSc, Btech, NDip)
 - Foreman: Specific number of years' experience
 - Health and Safety Manager: Specific number of years' experience, registration with SACPCMP as Health and Safety Officer
- Safety, Health and Environmental requirements
- Methodology/Approach Paper – this should be project specific and needs to respond to the scope of work
- Previous Experience – typically on projects of similar nature
- Programme – aligned to the approach paper

Technical Requirements for Term Service Contracts



Requirements for Term Service Contracts (Repetitive Work)

- “Mostly no CIDB Grading required”
- Key Personnel with the following requirements depending on project size and scope:
 - Artisan (e.g. Plumber): Specific number of years’ experience, Trade Certificate
 - Site Supervisor: Specific number of years’ experience
 - Health and Safety Officer: Specific number of years’ experience, registration with SACPCMP as Health and Safety Officer
- Safety, Health and Environmental requirements
- Methodology/Approach Paper – this should be project specific
- Previous Experience – typically on projects of similar nature

Technical Requirements for Professional Services Contracts

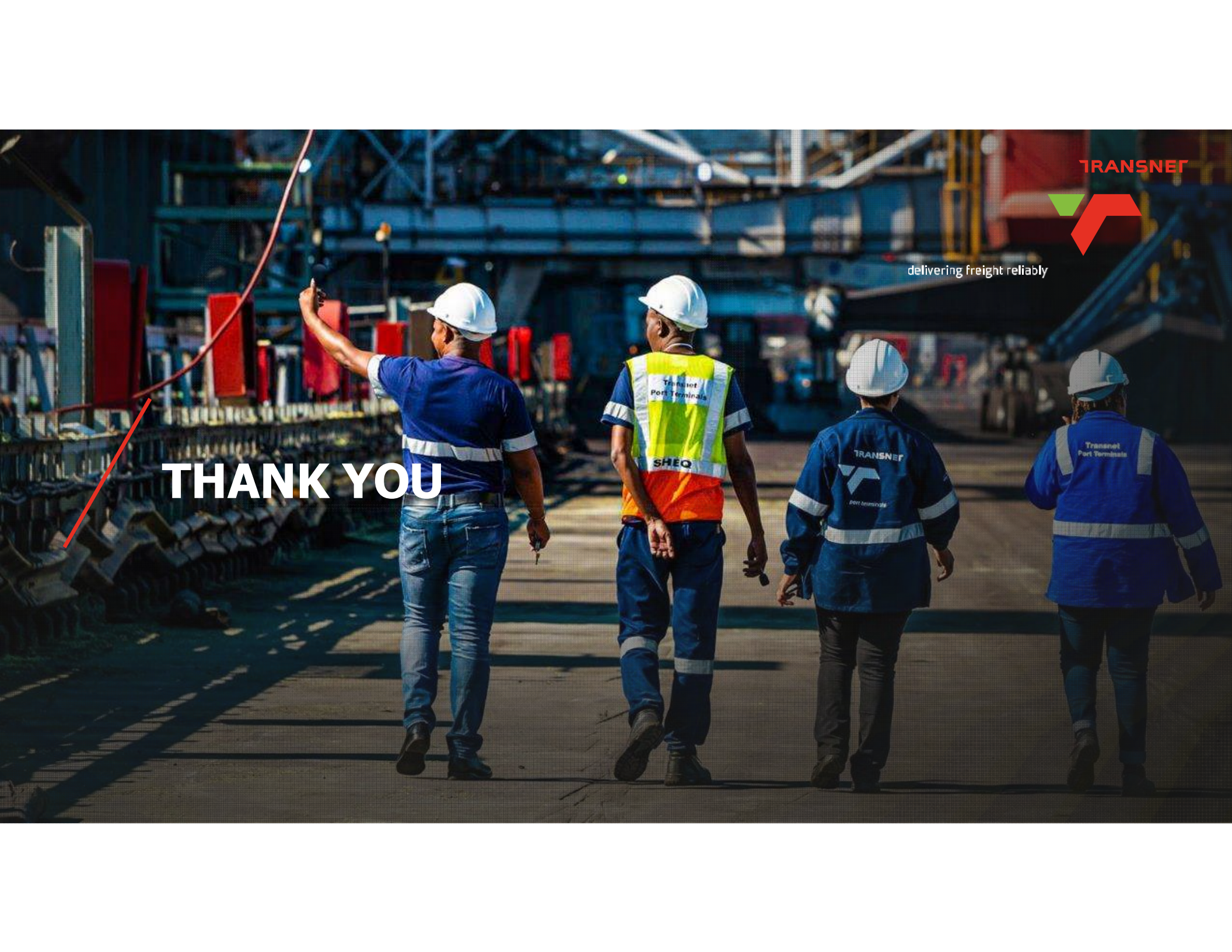


Requirements for Professional Service Providers – Professional Service Providers should possess skilled technical resources that ensure that technical designs and engineering works are of good quality and are cost effective

- Key Personnel with the following requirements depending on project size and scope:
 - Project Manager: Specific number of years' experience, formal qualification in a relevant field (BSc, BTech)
 - Engineer: Specific number of years' experience, Professional Registration with ECSA
 - Safety Agent: Specific number of years' experience, Registration with SACPCMP as Health and Safety Officer
- Safety, Health and Environmental requirements
- Methodology/Approach Paper – this should be project specific and needs to respond to the scope of work
- Previous Experience – typically on projects of similar nature
- Programme – aligned to the approach paper

Key Challenges

#	Challenge	Proposed Mitigation
1	Non-award of business due to Bidders not meeting the specified technical requirements or Client bodies preparing sub-standards bid documents	Workshops/Seminars/Webinars to be conducted with the business community
2	Changes in Rules and Guidelines	Broader communication and engagements with Stakeholders at all levels
3	Under-pricing by bidders due to high competition in the industry. This leads to under delivery or sub-standard deliverables	Bidders need to price correctly, however still remain competitive
4	Inadequate understanding of the localisation principle	Broader communication and engagements with Stakeholders at all levels



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THANK YOU