

TRANSNET



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# MULTI PURPOSE VESSEL

Presentation to: Tender Briefing – Multi Purpose Vessel.

6 March 2023.

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# OVERVIEW

1. BACKGROUND.
2. OBJECTIVES.
3. PROJECT SCOPE.
4. KEY RESOURCES.
5. PRICING NOTES.
6. TECHNICAL EVALUATION CRITERIA (TEC).
7. QUESTIONS.
8. CLOSING.



# BACKGROUND



The Port of Cape Town currently has a single Pollution Control Vessel which was built in 1999.

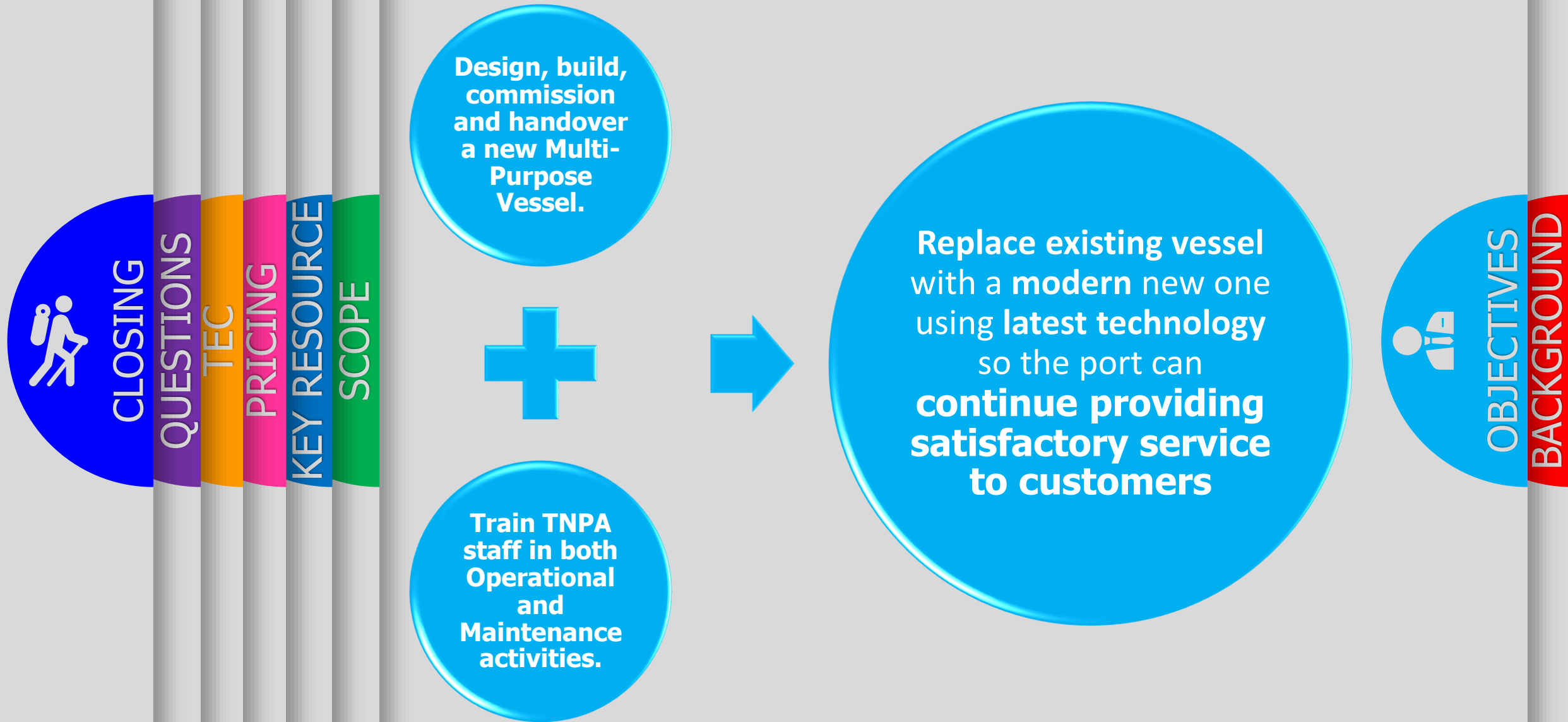
The craft has a design life of 15 years; thus, it has exceeded its design life by 7 years. Due to its age, the vessel is in poor condition and is not fitted with the equipment necessary to implement an effective and quick marine clean-up operation.

This vessel is constantly maintained but breakdowns remain frequent.

In addition to pollution control performed the new vessel will be utilized for assistance with waterside maintenance functions and assist with the dredging functions in the Port.



# PROJECT OBJECTIVES





# PROJECT SCOPE



Principal Parameters	
Length Overall	20 Meters
Beam Overall	8 Meters
Draught	4 Meters
Bollard Pull	15 Tons ahead
Propulsion	Twin Screw
Gross Tonnage	< 200 Tons
Max. Speed	6 – 9 Knots
Power	<1500 kW



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# KEY RESOURCES

#	RESOURCE	QUALIFICATION
1	<b>Project Manager</b>	<ul style="list-style-type: none"> <li>Degree in Project Management.</li> <li>Professional registration with PMI or PMSA will be an advantage.</li> </ul>
2	<b>Naval Architect</b>	<ul style="list-style-type: none"> <li>Class approved.</li> <li>Professionally registered with recognized organization such as RINA.</li> </ul>
3	<b>Risk Manager</b>	<ul style="list-style-type: none"> <li>Risk Management qualification.</li> </ul>
4	<b>Superintendent/ Foreman</b>	<ul style="list-style-type: none"> <li>Diploma in Mech. Eng. and/or Chief Engineer's Qualifications (unlimited) will be an advantage.</li> <li>Experience in shipbuilding.</li> </ul>
5	<b>Quality Manager</b>	<ul style="list-style-type: none"> <li>Diploma in quality management.</li> </ul>
6	<b>Coded Welders</b>	<ul style="list-style-type: none"> <li>Class Approved with relevant qualification.</li> </ul>
7	<b>Millwright</b>	<ul style="list-style-type: none"> <li>Experience in Shipbuilding</li> <li>With trade test certificate</li> </ul>
8	<b>Spray painter</b>	<ul style="list-style-type: none"> <li>Experience in Shipbuilding</li> <li>With a certificate in spray painting</li> </ul>
8	<b>Boilermaker</b>	<ul style="list-style-type: none"> <li>Experience in Shipbuilding</li> <li>with a trade test certificate</li> </ul>



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# PRICING NOTES

Pricing instructions: Option A (Activity Schedule)

Item	Description	Unit Cost (ZAR)	Qty	Total Price (ZAR)
1	Hull		1	
2	Wheelhouse & fittings		1	
3	Accommodation & fittings		1	
4	Machinery & compressor plant		1	
5	Main engines & alternators		1	
6	Electrical installations		1	
7	Air conditioning & ventilation		1	
8	Refrigeration		1	
9	Communication & navigational aids		1	
10	Fire fighting		1	
11	Painting		1	
12	Training in maintenance and operating of vessels		1	
13	Other		1	
Total Cost Excluding VAT (write out in words below)				



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# PRICING NOTES

## Forecast Rate of Invoicing "Guide"

#	Milestone Description	% Payment	Forecasted Payment Date	Amount
1	On the submission of the approved Advance Payment Guarantee	10.00%		
2	On Approval of Design	10.00%		
3	On Start of Steel Cutting	15.00%		
4	On laying of the Keel	5.00%		
5	On Completion of the Hull	7.50%		
6	On Completion of the Superstructure	7.50%		
7	On Completion of Superstructure and Hull Assembly	7.50%		
8	On Successful Testing of Main Engines	7.50%		
9	On Commissioning of Systems (Including Completion of Outfitting):	10.00%		
11	Completion of SATS and HATS:	10.00%		
13	Due and payable on Handover of Completed Vessel (Including submission of deliverables as detailed in clause 2.1.4.1 of the C3)	10.00%		
<b>Total</b>		<b>100%</b>		



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# TECHNICAL EVALUATION CRITERIA



## CLOSING QUESTIONS

Criterion	Description	Scoring principle	Returnable Schedule
<b>Previous Experience in Shipbuilding</b>	Company (not individuals) experience in successfully designing, building, commissioning and handing over similar (i.e., same class or higher) motorised vessels (in accordance with scope of work) in the past 15 years.	<ul style="list-style-type: none"> <li>• More than 5 projects submitted of similar vessel previously built and delivered successfully in the past 15 years = 100%</li> <li>• <math>3 &lt;</math> projects submitted of similar vessel previously built and delivered successfully in the past 15 years <math>\leq 4</math> = 80%</li> <li>• 3 projects submitted of similar vessel previously built and delivered successfully in the past 15 years = 60%</li> <li>• <math>1 &lt;</math> projects submitted of similar vessel previously built and delivered successfully in the past 15 years <math>\leq 2</math> = 40%</li> <li>• <math>0 &lt;</math> project submitted of similar vessel previously designed, built and delivered successfully in the past 15 years <math>\leq 1</math> = 20%</li> <li>• No Response or no project submitted of the similar vessel previously built and delivered successfully or No evidence of designing of similar vessel irrespective of evidence of vessels previously delivered = 0%</li> </ul>	<ul style="list-style-type: none"> <li>• A list of previous experience in designing, building, commissioning and handing over motorized vessels.</li> <li>• Reference letter(s) for previously designing, building, commissioning and handing over motorized vessels.</li> <li>• Reference letter(s) from client(s) on clients' company letterhead signed by the client confirming the work performed with a clear indication of clients' impression of the work performed.</li> <li>• References must be traceable in order for the experience to be verified by TNPA where necessary.</li> </ul>



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# TEC (Continued)

Criterion	Description	Scoring principle	Returnable Schedule
Management & CV's of Key Personnel and Organogram.	Project Manager	<ul style="list-style-type: none"> <li>• More than 7 years experience with a diploma or degree in Engineering or Built Environment or Project Management and professionally registered with PMI or PMSA = 100%</li> <li>• 5 &lt; years' experience with a diploma or degree in Engineering or Built Environment or Project Management ≤ 7 = 80%</li> <li>• 3 ≤ years' experience with a diploma or degree in Engineering or Built Environment or Project Management ≤ 5 = 60%</li> <li>• Less 3 years' experience years with a diploma or degree in Engineering or Built Environment or Project Management = 40%</li> <li>• Less than 3 Years' Experience with no diploma or degree in Engineering or Built Environment or Project Management = 20%</li> <li>• No response = 0%</li> </ul>	1. Qualifications 2. CV's with traceable references 3. Certificates
	Naval Architect registered with a recognized organisation such as RINA (Must be Class Approved)	<ul style="list-style-type: none"> <li>• Professionally registered Naval Architect with more than 10 years experience = 100%</li> <li>• Professionally registered Naval Architect with 7 &lt; ten years experience ≤ 10 = 80%</li> <li>• Professionally registered Naval Architect with 5 &lt; years experience ≤ 7 = 60%</li> <li>• Professionally registered Naval Architect with 3 ≤ years experience ≤ 5 = 40%</li> <li>• Less than three years experience or not Professionally registered = 20%</li> <li>• No Response or Naval Architect with no degree in Naval Architecture = 0%</li> </ul>	
	Risk Specialist	<ul style="list-style-type: none"> <li>• More than seven years experience with risk management qualification = 100%</li> <li>• 5 &lt; years experience and risk management certificate ≤ 7 = 80%</li> <li>• <b>3 &lt; years experience and risk management certificate ≤ 5 = 60%</b></li> <li>• 1 &lt; Years Experience ≤ 3 = 40%</li> <li>• Years experience &lt; 1 = 20%</li> <li>• No Response = 0%</li> </ul>	
	Superintendent / Foreman with Shipbuilding Background qualification	<ul style="list-style-type: none"> <li>• &gt; 7 Years Experience with a Diploma in Mechanical Eng. and Chief Engineer's Qualifications (unlimited)) = 100%</li> <li>• 5 &lt; Years Experience ≤ 7 = 80%</li> <li>• <b>3 &lt; Years Experience ≤ 5 = 60%</b></li> <li>• 1 &lt; Years Experience ≤ 3 = 40%</li> <li>• Years Experience &lt; 1 = 20%</li> <li>• No Response = 0%</li> </ul>	
	Quality Manager with experience in steel fabrication or shipbuilding.	<ul style="list-style-type: none"> <li>• &gt; 7 Years Experience and quality management diploma = 100%</li> <li>• 5 &lt; Years Experience and quality management diploma ≤ 7 = 80%</li> <li>• <b>3 &lt; Years Experience and quality management diploma ≤ 5 = 60%</b></li> <li>• 1 &lt; Years Experience ≤ 3 = 40%</li> <li>• Years Experience &lt; 1 = 20%</li> <li>• No Response = 0%</li> </ul>	
	Coded Welders that are Class Approved with qualification (i.e. Welder's Qualification Test Certificate, Welders Procedure Specification)	<ul style="list-style-type: none"> <li>• &gt; 7 Years Experience = 100%</li> <li>• 5 &lt; Years Experience ≤ 7 = 80%</li> <li>• <b>3 &lt; Years Experience ≤ 5 = 60%</b></li> <li>• 1 &lt; Years Experience ≤ 3 = 40%</li> <li>• Years Experience &lt; 1 = 20%</li> <li>• No Response or not class approved and/or no qualification = 0%</li> </ul>	



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# TEC (Continued)



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Criteria	Description	Scoring principle	Returnable Schedule
Management & CV's of Key Personnel and Organogram.	Millwright with trade test certificate	<ul style="list-style-type: none"> <li>&gt; 7 Years Experience = 100%</li> <li>5 &lt; Years Experience ≤ 7 = 80%</li> <li><b>3 &lt; Years Experience ≤ 5 = 60%</b></li> <li>1 &lt; Years Experience ≤ 3 = 40%</li> <li>Years Experience &lt; 1 = 20%</li> <li>No Response or no trade test certificate = 0%</li> </ul>	1. Qualifications 2. CV's with traceable references 3. Certificates
	Spray painter with a certificate in spray painting	<ul style="list-style-type: none"> <li>&gt; 7 Years Experience = 100%</li> <li>5 &lt; Years Experience ≤ 7 = 80%</li> <li><b>3 &lt; Years Experience ≤ 5 = 60%</b></li> <li>1 &lt; Years Experience ≤ 3 = 40%</li> <li>Years Experience &lt; 1 = 20%</li> <li>No Response or no certificate = 0%</li> </ul>	
	Boilermaker with a trade test certificate	<ul style="list-style-type: none"> <li>&gt; 7 Years Experience = 100%</li> <li>5 &lt; Years Experience ≤ 7 = 80%</li> <li><b>3 &lt; Years Experience ≤ 5 = 60%</b></li> <li>1 &lt; Years Experience ≤ 3 = 40%</li> <li>Years Experience &lt; 1 = 20%</li> <li>No Response or no trade test certificate = 0%</li> </ul>	
	Organogram that is Project Specific	<ul style="list-style-type: none"> <li>All key people included with attached CV and qualification = 100%</li> <li>Missing 1 key person = 80%</li> <li><b>Missing 2 key people = 60%</b></li> <li>Missing 3 key people = 40%</li> <li>Missing 4 key people = 20%</li> <li>Missing 5 key people or No response or Not project specific = 0%</li> </ul>	Project Specific Organogram



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# TEC (Continued)

Criterion	Description	Scoring principle	Returnable Schedule
Programme	Starting date and completion date are stated and the schedule does not exceed 14 months.	<ul style="list-style-type: none"> <li>Starting date and completion is less than 13 months = 100%</li> <li>Starting date and completion date between 13 and 14 months = 80%</li> <li><b>Starting date and completion date between 14 and 15 months = 60%</b></li> <li>Starting date and completion date between 15 and 16 months = 40%</li> <li>Starting date and completion date exceeds 16 months = 20%</li> <li>No Response or Starting date and completion date not shown = 0%</li> </ul>	Programme accompanied by basis of schedule.
	Detailed Level 4 Programme with supportive Information on how durations were estimated. Major milestones are all shown and all project requirements, timing and deliverables will be met.	<ul style="list-style-type: none"> <li>Exceeds expectations, showing important issues with supportive information clearly indicating and defining the deliverables, detailed major milestones and the schedule is sufficiently flexible to accommodate changes that may occur. Activities are broken down into level 4 detail = 100%</li> <li>Meets expectations, showing important issues with supportive information clearly indicating and defining the deliverables, detailed major milestones and the schedule is sufficiently flexible to accommodate changes that may occur. Activities are broken down into level 4 detail = 80%</li> <li><b>The requirements partially meet the stipulated criteria with sparse supportive information/details on how the durations were estimated however evidence is given that the project requirements, timing and deliverables will be met = 60%</b></li> <li>Does not meet requirements of the stipulated criteria with no supportive information on how the durations were estimated. The sequencing of the key project deliverables is inconsistent and illogical interrelationships of activities with an insufficient breakdown of tasks/activities = 40%</li> <li>Programme is not acceptable as it will not satisfy project objectives or requirements. The Tenderer has misunderstood the scope of services and does not deal with the critical aspects of the project = 20%</li> <li>No response = 0%</li> </ul>	
	All activities as per level 4 detail to be logically tied using critical path method (CPM).	<ul style="list-style-type: none"> <li>The schedule is complete and detailed (level 4) with all activities properly linked using CPM and no open ends in between and basis of schedule to substantiate the linking of activities = 100%</li> <li>The schedule is complete and detailed (level 4) with all activities properly linked using CPM and no open ends in between = 80%</li> <li><b>The schedule is complete and detailed (level 4) with major activities properly linked using CPM and no open ends in between = 60%</b></li> <li>The schedule is partially complete and detailed (level 4 or level 3) with major activities properly linked using CPM with no open ends in between = 40%</li> <li>The schedule is partially complete and detailed (level 4 or level 4) with major activities properly linked using CPM with some open ends in between = 20%</li> <li>No response or schedule does not link activities using CPM or submission is Level 1 or level 2) = 0%</li> </ul>	
	All activity durations to be realistic and based on quantities and activities that can be measured in days. The calendar on the schedule should represent the actual work week/month used. E.g. weekends as nonworking periods.	<ul style="list-style-type: none"> <li>All activities are broken down into days and weekends, public holidays and builders' breaks are marked as non-working days with time risk allowances shown = 100%</li> <li>All activities are broken down into days and weekends, public holidays and builders break are marked as non-working days = 80%</li> <li><b>Major activities are broken down into days and weekends, public holidays and builders break are marked as non-working days = 60%</b></li> <li>Activities are broken down into days and weekends and public holidays are marked as non-working days = 40%</li> <li>Activities are broken down into weeks and weekends and public holidays are marked as non-working days = 20%</li> <li>No response = 0%</li> </ul>	
	Programme submission Format (Software)	<ul style="list-style-type: none"> <li>Programme submitted was compiled in MS Project or Primavera with the predecessor, successor, resource loading and cost-loaded columns shown, and the Basis of schedule submitted = 100%</li> <li>Programme submitted was compiled in MS Project or Primavera with predecessor and successor columns shown and the Basis of schedule submitted = 80%</li> <li>Programme submitted was compiled in MS Project or Primavera and the basis of schedule submitted = 60%</li> <li>Programme submitted was compiled in MS Project or Primavera but no basis of schedule = 40%</li> <li>Programme submitted compiled in MS Excel, not in MS Project nor Primavera no basis of schedule = 20%</li> <li>No response = 0%</li> </ul>	



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Criterion	Description	Scoring principle	Returnable Schedule
<b>SHERQ</b>	Documented Integrated SHERQ Policy and the Procedure Documents (i.e., Valid Letter of Good Standing, Signed SHE Policy, SHE Plan, SHE Risk Assessments, Environmental Management Plan).	<ul style="list-style-type: none"> <li>The submission includes all activities (i.e. Signed SHE Plan, SHE Risk</li> <li>5 of the 5 requested documents submitted, and documents submitted are project specific = 100%</li> <li>4 of the 5 requested documents submitted, and documents submitted are project specific = 80%</li> <li>3 of the 5 requested documents submitted, and documents submitted are project specific = 60%</li> <li>2 of the 5 requested documents submitted, and documents submitted are project specific = 40%</li> <li>1 of the 5 requested documents submitted, and documents submitted are project specific = 20%</li> <li>No Response - No Information provided = 0%</li> </ul>	<ol style="list-style-type: none"> <li>Valid Letter of Good Standing,</li> <li>Signed SHE Policy,</li> <li>SHE Plan,</li> <li>SHE Risk Assessments,</li> <li>Environmental Management Plan..</li> </ol>



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Criterion	Description	Scoring principle	Returnable Schedule
Method Statement.	Bollard Pull $\geq 15$ tonnes (see Clause 2.1.2.4 of the C3)	<ul style="list-style-type: none"> <li>Bollard pull ahead exceeding 15.5 tons = 100%</li> <li>15 &lt; Bollard pull ahead <math>\leq 15.5</math> tons = 80%</li> <li>Bollard pull ahead of 15 tons = 60%</li> <li>14.5 &lt; Bollard pull ahead &lt; 15 tons = 40%</li> <li>14 <math>\leq</math> Bollard pull ahead <math>\leq 14.5</math> tons = 20%</li> <li>No response or Bollard pull ahead &lt; 14 tons = 0%</li> </ul>	1. Clause by Clause Compliance to C3. 2. Completed Compliance Sheet.
	Below the deck accommodation with two berths of 2.1 x 0.9 m with ceiling and walls completely lined (see Clause 9.5.1 of the C3)	<ul style="list-style-type: none"> <li>Below the deck accommodation with more than three berths of 2.1 x 0.9 m with ceiling and walls completely lined = 100%</li> <li>Below the deck accommodation with three berths of 2.1 x 0.9 m with ceiling and walls completely lined = 80%</li> <li><b>Below the deck accommodation with two berths of 2.1 x 0.9 m with ceiling and walls completely lined = 60%</b></li> <li>Below the deck accommodation with two berths of 2.1 x 0.9 m without ceiling and walls completely lined = 40%</li> <li>Below the deck accommodation with one berth smaller than 2.1 x 0.9 m without ceiling and walls completely lined = 20%</li> <li>No response or No accommodation provided = 0%</li> </ul>	
	Compliance to noise levels in engine room (Maximum = 100 dB(A) measured at 80% power of main engine) (see clause 9.1.1 of the C3)	<ul style="list-style-type: none"> <li>Below 95 dB(A) = 100%</li> <li>95 &lt; dB(A) <math>\leq 99</math> = 80%</li> <li><b>100 dB(A) = 60%</b></li> <li>101 &lt; dB(A) <math>\leq 102</math> = 40%</li> <li>102 &lt; dB(A) <math>\leq 103</math> = 20%</li> <li>more than 103 dB(A) = 0%</li> </ul>	



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# TEC (Continued)

Criterion	Description	Scoring principle	Returnable Schedule
Method Statement.	<p>Critical spares shall be delivered with the vessel (See clause 1.12 of the C3);</p> <ul style="list-style-type: none"> <li>• 1 X Propeller Shaft,</li> <li>• 1 set of Propeller shaft bearings,</li> <li>• 1 X Fixed-pitch propeller.</li> <li>• 1 set of engine spares as recommended by OEM.</li> </ul>	<ul style="list-style-type: none"> <li>• Two or more spares in addition to the Four above to be provided = 100%</li> <li>• One more spare in addition to the four above to be provided = 80%</li> <li>• <b>All four as stated above to be provided = 60%</b></li> <li>• Only three of the above to be provided = 40%</li> <li>• Only two of the above to be provided = 20%</li> <li>• No response or less than two of the above is provided = 0% (0)</li> </ul>	<p>1. Clause by Clause Compliance to C3.</p> <p>2. Completed Compliance Sheet.</p>
	<p>All Classification Society Spares are included as per clause 1.12 of the C3.</p>	<ul style="list-style-type: none"> <li>• More than 105% of the total number of Classification Society Spares included = 100%</li> <li>• 105% of the total number of Classification Society Spares included = 80%</li> <li>• <b>100% of the total number of Classification Society Spares included = 60%</b></li> <li>• 95% of the total number of Classification Society Spares included = 40%</li> <li>• Less than 95% of the total number of Classification Society Spares included = 20%</li> <li>• No response or less than 90% of the total number of Classification Society Spares included = 0%</li> </ul>	
	<p>Method Statement includes all specifications as per the C3 - Goods Information and demonstrates a clear understanding of the Goods Information</p>	<ul style="list-style-type: none"> <li>• The methodology approach deals with ALL critical characteristics of the project. Besides meeting the "80" rating, the important issues are approached in an innovative and efficient way, indicating that the tenderer has outstanding knowledge of state-of-the-art approaches. The methodology approach details ways to improve the project outcomes and the quality of the outputs = 100%</li> <li>• The methodology approach deals with most characteristics of the project. The methodology/approach is specifically tailored to address the specific project objectives and methodology and is sufficiently flexible to accommodate changes that may occur during execution. The methodology/approach to manage activities is specifically tailored to the critical characteristics of the project = 80%</li> <li>• <b>The methodology approach deals with most of the characteristics of the project. Satisfactory response/solution to the particular aspect of the requirement and evidence given that the stated employer's requirements will be met = 60%</b></li> <li>• The methodology approach deals with only minimal characteristics of the project. The methodology/approach is generic and not tailored to address the specific project objectives and methodology = 40%</li> <li>• The methodology/approach and work alignment to the project schedule is poorly presented, generic and not tailored to address the specific project objectives and methodology = 20%</li> <li>• The tenderer has submitted no information or inadequate information to determine a score= 0%</li> </ul>	<p>Method Statement</p>



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# TEC (Continued)

Criterion	Description	Scoring principle	Returnable Schedule
Quality Expectations.	Project Specific Quality Plan (PSQP) for the project..	<ul style="list-style-type: none"> <li>• PSQP covers all and above the project quality requirements of the project scope = 100%</li> <li>• PSQP shows above average understanding of the project quality requirements = 80%</li> <li>• PSQP shows adequate understanding of project quality requirements = 60%</li> <li>• PSQP is project specific but inadequate to cover project scope = 40%</li> <li>• PSQP is too general and not project specifics = 20% No Response = 0%</li> </ul>	Project specific Quality Control Pla
	Project specific Quality Control Plan (QCP) (For each task).	<ul style="list-style-type: none"> <li>• QCP covers all and above the project quality requirements of the project scope = 100%</li> <li>• QCP shows above average understanding of the project quality requirements = 80%</li> <li>• QCP shows adequate understanding of project quality requirements = 60%</li> <li>• QCP is project specific but inadequate to cover project scope = 40%</li> <li>• QCPs are not project specific = 20%</li> <li>• No Response - No Information provided = 0%</li> </ul>	
	Project specific Quality data book index.	<ul style="list-style-type: none"> <li>• Quality Data book index covers all and above the project quality requirements of the project scope = 100%</li> <li>• Quality Data book index shows above average understanding of the project quality requirements = 80%</li> <li>• Quality Data book index shows adequate understanding of project quality requirements = 60%</li> <li>• Quality Data book index is project specific but inadequate to cover project scope = 40%</li> <li>• Quality Data book index is not project specific = 20%</li> <li>• No Response = 0%</li> </ul>	Quality data book index.



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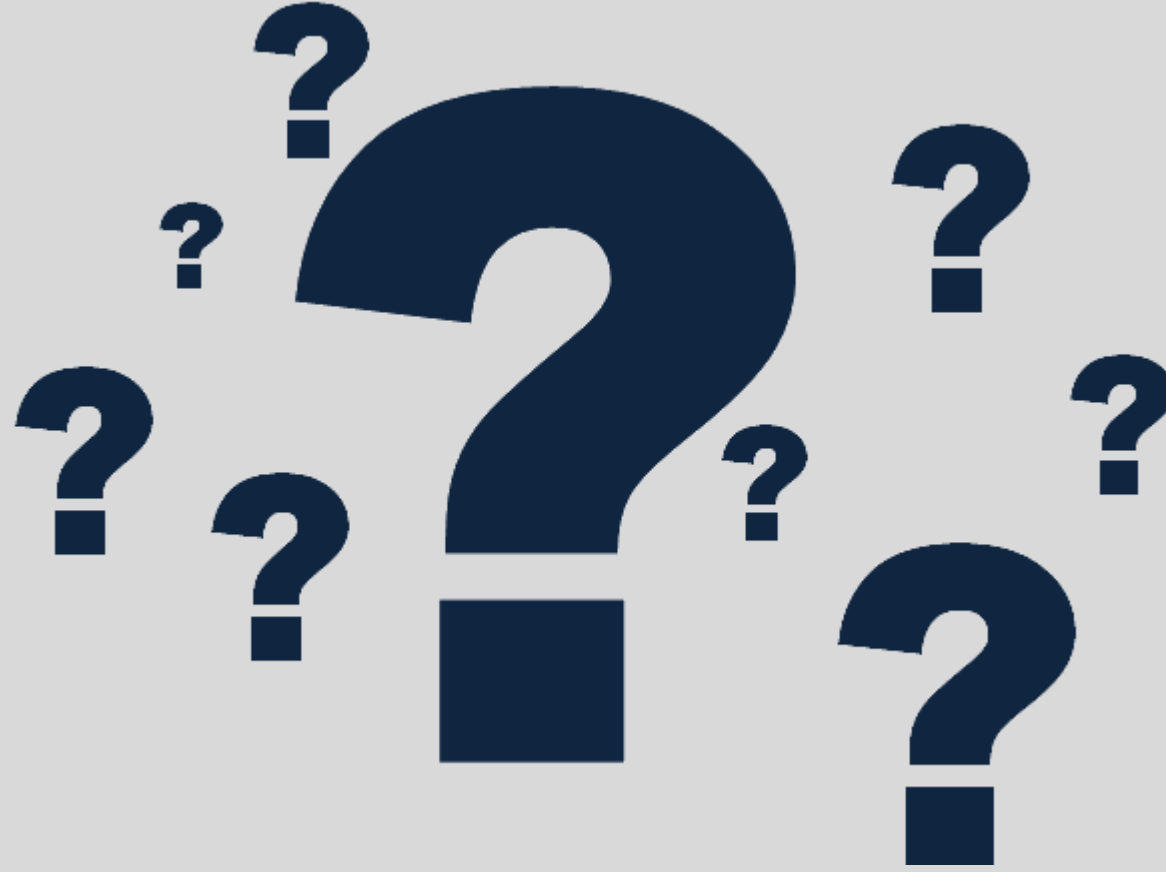
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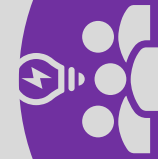
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# QUESTIONS



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