



## Request for Quotation

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<b>Request for Quotation:</b>	Management of the Western Australian Natural Disaster Relief and Recovery Arrangement (WANDRRA)
<b>Deadline:</b>	Thursday, 29 September, 3.00PM
<b>Address for Delivery:</b>	Responses shall be submitted through WALGAs eQuotes Electronic Portal.
<b>RFQ Number:</b>	025/16

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# 1 Conditions of Responding

## 1.1 Contract Requirements in Brief

The Participating Parties invites Responses in accordance with the terms and conditions of this Request and WALGA preferred supplier contract C001\_13 Engineering Consultancy Services and C13\_15 Asset Management Consultancy Services.

Respondents are to provide Project Management of recovery and reinstatement of essential assets and infrastructure following declaration of a natural disaster including the administration and supervision of asset assessment, formulation of Procurement documents and technical specification, reconstruction of roads, levees, bridges, building and other engineered municipality asset.

The Participating Parties will not be offering a retainer arrangement for this Contract. At the time the Consultant must be in a position to respond immediately once the event has been declared a natural disaster through the WANDRRA scheme.

Respondents will be required to represent the participants of this RFQ and report to Main Roads Western Australia and Government of Western Australia Department of Premier and Cabinet as required.

A full statement of the Goods/Services required under the proposed Contract appears in the Specification, Part 2.

## 1.2 Participants

The Participating Parties of this Contract include:

The Shire of Exmouth;

The Shire of Carnarvon; and

The Shire of Shark Bay.

### 1.3 Definitions

Below is a summary of some of the important defined terms used in this Request:

<b>Brief:</b>	The Services requested by the Client.
<b>Consultant:</b>	Means the person or persons, corporation or corporations who's Response is accepted by the Client, and includes the executors or administrators, successors and assignments of such person or persons, corporation or corporations.
<b>Deadline:</b>	As nominated on the front cover page of this Request or as amended.
<b>General Conditions of Contract:</b>	Means the General Conditions of Contract for the nominated in Part 3.
<b>Offer:</b>	Your Offer to be selected to supply the Requirements.
<b>Participating Parties or Principal:</b>	Means the: The Shire of Exmouth; The Shire of Carnarvon; and The Shire of Shark Bay.
<b>Response:</b>	Completed Offer, response to Selection Criteria and Attachments.
<b>Respondent</b>	A person or organisation who has or intends to submit a Response to this Request for Quotation.
<b>Request or RFQ or Request for Quotation:</b>	This document.

### 1.4 Separate Documents

- a) Exmouth Floodplain Management Study 29 June 2007.
- b) Bureau of Meteorology Tropical Cyclones Affecting Exmouth Information.
- c) WANDRRA Guide for Local Governments December 2015.
- d) The Tenderers Offer is attached as word version for completion by Respondents.

### 1.5 Links

The following links will assist Respondents in viewing the policies and procedures of the relevant Participating Parties of this RFQ;

- a) Shire of Exmouth

<http://www.exmouth.wa.gov.au/documents/?categoryid=3>

b) Shire of Carnarvon

<https://www.carnarvon.wa.gov.au/your-council/council-policies/>

c) Shire of Shark Bay

<http://www.sharkbay.wa.gov.au/council/other-council-information/public-documents.aspx>

## 1.6 Contact Persons

Respondents should not rely on any information provided by any person other than the person listed below:

<b>Name:</b>	Craig Grant
<b>Telephone:</b>	9213 2037
<b>Email:</b>	cgrant@walga.asn.au

## 1.7 Selection Criteria

The selection criterion will consist of compliance and qualitative components and are detailed within Part 4 of this Request.

The compliance criterion consists of non scoring elements and will not be point scored. The qualitative criterion are point scored with a predetermined point scoring system.

The Client has adopted the best value for money approach to this Request. This means that, although price is considered, the Response containing the lowest price will not necessarily be accepted, nor will the offer ranked the highest on the Qualitative Criteria.

The Contract may be awarded to a panel of 2 – 4 Respondent(s) who best demonstrate the ability to provide quality products and or services at a competitive price. The quoted prices will be assessed together with the qualitative and compliance criteria to determine the most advantageous outcome to the Client.

## 1.8 Lodgement of Response and Delivery Method

The Response is to be:

a) lodged by the Deadline. and

b) lodged electronically in eQuotes (<https://www.vendorpanel.com.au>);

Electronic mail Responses, Hard copy Responses and Responses submitted by facsimile will not be accepted.

## 1.9 Rejection of Responses

A Response may be rejected without consideration of its merits in the event that:

- a) it is not submitted before the Deadline; or
- b) it is not submitted at the place specified in the Request for Quotation; or
- c) it may be rejected if it fails to comply with any other requirements of the Request for Quote; or
- d) the Respondent does not submit an Offer form which has been completed and signed together with all the required Attachments.

## 1.10 Acceptance of Responses

Unless otherwise stated in this Request, Responses may be for all or part of the Requirements and may be accepted by the Client either wholly or in part. The Client is not bound to accept the lowest Response and may reject any or all Responses submitted.

## 1.11 Response Validity Period

All Responses will remain valid and open for acceptance for a minimum period of ninety (90) days from the Deadline.

## 1.12 Alterations

The Respondent must not alter or add to the Request documents unless required by these Conditions of Responding.

## 1.13 Ownership of Responses

All documents, materials, articles and information submitted by the Respondent as part of or in support of a Response shall become upon submission the absolute property of the Client and will not be returned to the Respondent at the conclusion of the Response Process provided that the Respondent shall be entitled to retain copyright and other intellectual property rights therein, unless otherwise provided by the Contract.

## 2 Brief

### 2.1 Requirements in Brief

The Consultant will be required to provide Project Management of recovery and reinstatement of essential assets and infrastructure following declaration of a natural disaster including the administration and supervision of asset assessment, formulation of Procurement documents and technical specification, reconstruction of roads, levees, bridges, building and other engineered municipality asset.

### 2.2 Exclusion of Retainer

The Principal is not offering a retainer arrangement.

### 2.3 Service Response

Upon advice from the Principal the Consultant must be in a position to respond immediately once the event has been declared a natural disaster through the WANDRRA scheme.

### 2.4 General Requirements

#### 2.4.1 Mobilisation

This stage requires the Consultant to mobilise immediately following a natural disaster event. This initial mobilisation will require the Consultant to undertake a preliminary assessment of damage, quantify and provide cost estimates for reporting to Main Roads and the Department of Premier and Cabinet. This information is critical in the natural disaster eligibility assessment and subsequent natural disaster declaration by the Western Australian and Federal Governments who provide financial assistance through WANDRRA. In this regard time is of the essence.

#### 2.4.2 Project Management

This stage requires the Consultant to commence the project procurement activities and project management duties upon receipt of any WANDRRA funding approvals.

The Consultant shall:

- a) Formulate procurement documents and technical specification for the reconstruction of roads, levees, bridges, building and other engineered municipality asset.
- b) Manage the Procurement activities including advertisement, review of submissions and formulate reports in compliance with the Local Government Act 1995 and associated Local Government purchasing policy. Prepare Council agenda reports in accordance with the Local Government format.
- c) Provide qualified project managers and fulltime works engineer/supervisor for the duration of the project. Supervise construction works and manage all associated activities. (Staff changes half way through the project is not supported) Ensure all financial expenditure reporting is thorough, accurate and detailed in accordance the Australian Accounting Standard and the Local Government Financial Regulation.
- d) Closeout the project and report to standards acceptable to Local Government, Main Roads and the Department of Premier and Cabinet.

## **2.5 Level of Services**

The Principal's provide no guarantee, express or implied as to the nature, value or quantity of services that may be provided to any resultant Consultant.

## **2.6 Standards/Procedures**

The following standards, procedures and regulations as a minimum must be adhered to by the Consultant when managing any resultant WANDRAA Project

- a) Local Government ACT 1995.
- b) Local Government (Functions and General) Regulations 1996.
- c) Local Government (Financial Regulations) 1996.
- d) Australian Accounting Standards as described by the Australian Accounting Standards Board.
- e) WANDRAA funding requirements.
- f) The Principal's policies and procedures where it affects these activities. As a minimum the following policies will apply:
  - Disability Access and Inclusion Plan.
  - OHS.
  - Purchasing Policies and Procedures.
  - Local Government Financial Regulation.

## **2.7 Panel**

The Principal appoints the Consultant to the Panel and the Consultant accepts the appointment to the Panel on the terms and conditions contained within this Contract.

The Consultant acknowledges and agrees that:

- a) the constitution of the Panel is determined by the Participating Party;
- b) the Principal may engage any Consultant of the Panel for the supply of the Services during the Term;
- c) The terms and conditions contained within this Contract will apply to any engagements through the Panel.
- d) the Principal may, at any time in their sole discretion, engage third parties who are not members of the Panel to deliver the same or similar Services to this Contract;
- e) the Consultant must co-operate with the Principal and any third party engaged by the Principal (including any other Panel member) to ensure that the provision of the Services is carried out in a co-ordinated, effective and timely manner;

### **2.7.1 Panel Operation**

This Panel will operate via a ranking system. The Principal will generally seek Goods and Services from the first ranked panellist.

Where the first ranked panellist is unavailable to commence the Work the next ranked member shall be approached.



A Brief highlighting the requirements for each engagement will be provided to the nominated Panellists.

## **2.8 Contract Duration**

This Panel Contract commences on **(Date, to be inserted upon award of any resultant contract)** and continues for a period of one (1) year (*Initial Period*) finalising on **(Date, to be inserted upon award of any resultant contract)**.

The Principal may, at its discretion, extend this Contract by giving notice in writing to the Consultant before expiry of the *Initial Period* or *Extended Period* as the case may be, for an additional period up to a maximum of 3 years to commence on the day after the end of the Initial Period and ending after the period of time notified to the Consultant by the Principal (*Extended Period*).

### 3 General Conditions of Contract

#### 3.1 Proposed Conditions

The proposed conditions of Contract for this project shall be AS 4122 – 2010 General Conditions of Contract for Consultants.

It is the Tenderers responsibility to ensure they have read and understood AS 4122 – 2010 General Conditions of Contract for Consultants.

Tenderers can obtain copies of AS 4122 – 2010 General Conditions of Contract for Consultants from [www.saiglobal.com](http://www.saiglobal.com).

#### 3.2 Annexure A

The following table contains the minimum information provided by the Client in order to complete the annexure Part A to AS 4122 – 2010 General Conditions of Contract for Consultants.

Item 5 (clause 5.1) The purpose(s) for which the Services will be suitable is/are:	To deliver consultancy services for the recovery and reinstatement of essential assets and infrastructure following declaration of a natural disaster through the WANDRRA scheme.
Item 10 (clause 10.3) Time to claim payment is no later than:	The last day of each calendar month
Item 11 (clause 10.6) The time for payment is no later than:	Business Days after receipt of a claim for payment or if nothing is stated 30 calendar days after service of a payment claim
Item 12 (clause 10.9) The rate of interest for overdue payment is:	Nil
Item 13 (clause 12.1) Alternative 1: The date or the period after commencement of this Contract, by which the Services must be completed is.	Alternative 1: As detailed in the Brief.
Item 14 (clause 12.3 (c)) Other causes of delay for which the Consultant may notify an extension of time:	Delays unreasonably caused by the Principal.

**Part 3 READ AND KEEP THIS PART**

Item 15 (clause 13.2) The Approvals to be obtained by the Consultant are:	Disbursements Upon commencement of any engagement the Principal and Consultant shall identify and agree any approval points.
Item 18 (clause 21.3) Copyright and other Intellectual Property Rights, the Alternative that applies is:	Alternative 1
Does clause 22 (Moral Rights) apply? If yes, the author is:	No
Item 22 (clause 23.1) The following Documents are confidential:	This Contract and all associated documents.
Item 23 (clause 24.4) Maximum period for which Client may suspend the Services at any one time, after which the Consultant may terminate:	30 Business Days
Item 24 (clause 29.1) The Consultant's liability is limited to:	The value of the Consultants Professional Indemnity insurance.
Item 27 (clause 30.4) The professional indemnity insurance must be maintained for the following period:	Five (5) years after the completion of this contract
Item 28 (clause 30.7) The Client must effect the following insurances and maintain them for the following periods:	Nil
Item 30 (clause 35) The law governing this Contract is:	Western Australia

## 4 Respondent's Offer

### 4.1 Offer Form

The Chief Executive Officer	The Chief Executive Officer	The Chief Executive Officer
The Shire of Exmouth	The Shire of Carnarvon	The Shire of Shark Bay
22 Maidstone Crescent	Francis Street	65 Knight Terrace
Exmouth WA 6707	Carnarvon WA 6701	Shark Bay WA 6537

I/We (Registered Entity Name): \_\_\_\_\_

ABN \_\_\_\_\_ ACN (if any) \_\_\_\_\_

#### **In response to Request for Quotation (RFQ) 025/16 Management of the Western Australian Natural Disaster Relief and Recovery Arrangement (WANDRAA):**

I/We agree that I am/We are bound by, and will comply with this Request and its associated schedules, attachments, all in accordance with the Conditions contained in this Request signed and completed.

The responded price is valid up to ninety (90) calendar days from the date of the RFQ closing.

I/We agree that there will be no cost payable by the Client towards the preparation or submission of this Response irrespective of its outcome.

The consideration is as provided under the schedule of rates of prices in the prescribed format and submitted with this RFQ.

I/We agree that I am/We are bound by, and will comply with this Request and its associated schedules, attachments, all in accordance with the Conditions of Quotation contained in this Request signed and completed.

I/We agree that there will be no cost payable by the Client towards the preparation or submission of this Quotation irrespective of its outcome.

The Quotation consideration is as provided under the schedule of rates of prices in the prescribed format and submitted with this Quotation.

Name of authorised Person: \_\_\_\_\_

Signature of authorised Person: \_\_\_\_\_

Telephone: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Date: \_\_\_\_\_

## 4.2 Selection Criteria

### 4.2.1 Compliance Criteria

<p><b>a) Acknowledgement</b></p> <p>Respondents are to provide acknowledgment that your organisation has submitted in accordance with the Conditions of this RFQ including completion of the Offer Form and provision of your pricing submitted in the format required by the Client.</p>	<p>Yes / No</p>
<p><b>b) Project Referees</b></p> <p>Provide at least two referees from current or recently completed WANDRAA projects including both a Client and WANDRAA Reference. The project client must have been a WA Local Government:</p> <ul style="list-style-type: none"> <li>• <b>Client Reference</b> <ul style="list-style-type: none"> <li>Contact Name</li> <li>Position</li> <li>Email address,</li> <li>Phone number</li> </ul> </li> <li>• <b>WANDRAA Reference</b> <ul style="list-style-type: none"> <li>Contact Name</li> <li>Position</li> <li>Email address</li> <li>Phone number</li> </ul> </li> </ul>	<p>Provided / Unable to Provide</p>

### 4.2.2 Qualitative Criteria

Before responding to the following Qualitative Criteria, Respondents must note the following:

- a) All information relevant to your answers to each criterion are to be contained within your Response;
- b) Respondents are to assume that the Evaluation Panel has no previous knowledge of your organisation, its activities or experience;
- c) Respondents are to address each issue outlined within the Qualitative Criterion.

**Part 4 COMPLETE AND RETURN THIS PART**

<p><b>A. Organisation Ability</b> Respondents must address the following information in an attachment and label it “Organisation Ability”:</p>	<p><b>Weighting</b> <b>&lt;35%&gt;</b></p>											
<p>i. Provide at least two case studies, involving Local Government, of your organisations involvement in projects that involved the seeking and management of WANDRAA funding, engagement and overseeing of contractor works. Include in your response a summary of your roles and responsibilities in the project.</p> <p>ii. Provide a listing of all projects that included WANDRRA of which your organisation has been involved in;</p> <table border="1" data-bbox="288 672 1222 880"> <thead> <tr> <th data-bbox="288 672 518 763">Client</th> <th data-bbox="518 672 751 763">Duration</th> <th data-bbox="751 672 979 763">Value</th> <th data-bbox="979 672 1222 763">Brief Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="288 763 518 819"></td> <td data-bbox="518 763 751 819"></td> <td data-bbox="751 763 979 819"></td> <td data-bbox="979 763 1222 819"></td> </tr> <tr> <td data-bbox="288 819 518 880"></td> <td data-bbox="518 819 751 880"></td> <td data-bbox="751 819 979 880"></td> <td data-bbox="979 819 1222 880"></td> </tr> </tbody> </table>		Client	Duration	Value	Brief Description							
Client	Duration	Value	Brief Description									
<p><b>B. Personnel</b> Respondents must address the following information in an attachment and label it “ Personnel”:</p>	<p><b>Weighting</b> <b>&lt;30%&gt;</b></p>											
<p>i. Detail the project team and any back up resources to be utilised in this contract. Include the relevant roles to be performed, relevant experience and qualifications, and the suitability of each project team member for this project.</p> <p>ii. Provide a brief overview as to how you will ensure reasonable consistency in the nominated project personnel.</p>												
<p><b>C. Performance</b> Respondents must address the following information in an attachment and label it “Performance”:</p>	<p><b>Weighting</b> <b>&lt;25%&gt;</b></p>											
<p>i. Provide an overview as to your ability to perform these requirements including;</p> <ul style="list-style-type: none"> <li>• Your ability to respond urgently;</li> <li>• Meeting required standards and funding requirements;</li> <li>• Communication and reporting ability.</li> </ul>												
<p><b>D. Value</b> Respondents must address the following information in an attachment and label it “Value”:</p>	<p><b>Weighting</b> <b>&lt;10%&gt;</b></p>											
<p>i. Provide commentary as to how your organisation will provide suitable value to the Principal for each engagement.</p>												

### 4.3 Price Information

Respondents must complete the following “Price Schedule”. Before completing the Price Schedule, Respondents should ensure they have read and understood this entire Request for Quotation.

**a) Schedule of Rates**

Item	Role	Hourly Rate (Exc GST)	Hourly Rate (Inc GST)
1	(Example Project Manager)	\$	\$
2		\$	\$
3		\$	\$
4		\$	\$

**b) Disbursements**

Item	Description	Basis (EG Fee or Cost plus)	Fee
1	(Example Travel)	Cost Plus	%
2	(Example Accommodation)	Fee	\$
3			
4			

**Note:**

- Respondents may add to these Pricing Schedules as required.
- Disbursement may be provided as a fee or on a cost plus basis.
- Where fees are offered they are to be GST Inclusive

**c) Price Variation**

Description	Variation Method
Provide your proposed Price Variation Mechanism including the relevant indices, dates for application and an example.	<i>(Example – Perth CPI, To be applied on each Anniversary Date of the Contract)</i>

## 4 Respondent's Offer

### 4.1 Offer Form

The Chief Executive Officer	The Chief Executive Officer	The Chief Executive Officer
The Shire of Exmouth	The Shire of Carnarvon	The Shire of Shark Bay
22 Maidstone Crescent	Francis Street	65 Knight Terrace
Exmouth WA 6707	Carnarvon WA 6701	Shark Bay WA 6537

I/We (Registered Entity Name): \_\_\_\_\_

ABN \_\_\_\_\_ ACN (if any) \_\_\_\_\_

#### **In response to Request for Quotation (RFQ) 025/16 Management of the Western Australian Natural Disaster Relief and Recovery Arrangement (WANDRAA):**

I/We agree that I am/We are bound by, and will comply with this Request and its associated schedules, attachments, all in accordance with the Conditions contained in this Request signed and completed.

The responded price is valid up to ninety (90) calendar days from the date of the RFQ closing.

I/We agree that there will be no cost payable by the Client towards the preparation or submission of this Response irrespective of its outcome.

The consideration is as provided under the schedule of rates of prices in the prescribed format and submitted with this RFQ.

I/We agree that I am/We are bound by, and will comply with this Request and its associated schedules, attachments, all in accordance with the Conditions of Quotation contained in this Request signed and completed.

I/We agree that there will be no cost payable by the Client towards the preparation or submission of this Quotation irrespective of its outcome.

The Quotation consideration is as provided under the schedule of rates of prices in the prescribed format and submitted with this Quotation.

Name of authorised Person: \_\_\_\_\_

Signature of authorised Person: \_\_\_\_\_

Telephone: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Date: \_\_\_\_\_



## 4.2 Selection Criteria

### 4.2.1 Compliance Criteria

<p><b>a) Acknowledgement</b></p> <p>Respondents are to provide acknowledgment that your organisation has submitted in accordance with the Conditions of this RFQ including completion of the Offer Form and provision of your pricing submitted in the format required by the Client.</p>	<p>Yes / No</p>
<p><b>b) Project Referees</b></p> <p>Provide at least two referees from current or recently completed WANDRAA projects including both a Client and WANDRAA Reference. The project client must have been a WA Local Government:</p> <ul style="list-style-type: none"> <li>• <b>Client Reference</b> <ul style="list-style-type: none"> <li>Contact Name</li> <li>Position</li> <li>Email address,</li> <li>Phone number</li> </ul> </li> <li>• <b>WANDRAA Reference</b> <ul style="list-style-type: none"> <li>Contact Name</li> <li>Position</li> <li>Email address</li> <li>Phone number</li> </ul> </li> </ul>	<p>Provided / Unable to Provide</p>

### 4.2.2 Qualitative Criteria

Before responding to the following Qualitative Criteria, Respondents must note the following:

- a) All information relevant to your answers to each criterion are to be contained within your Response;
- b) Respondents are to assume that the Evaluation Panel has no previous knowledge of your organisation, its activities or experience;
- c) Respondents are to address each issue outlined within the Qualitative Criterion.

**Part 4 COMPLETE AND RETURN THIS PART**

<p><b>A. Organisation Ability</b> Respondents must address the following information in an attachment and label it “Organisation Ability”:</p>	<p><b>Weighting</b> <b>&lt;35%&gt;</b></p>											
<p>i. Provide at least two case studies, involving Local Government, of your organisations involvement in projects that involved the seeking and management of WANDRAA funding, engagement and overseeing of contractor works. Include in your response a summary of your roles and responsibilities in the project.</p> <p>ii. Provide a listing of all projects that included WANDRRA of which your organisation has been involved in;</p> <table border="1" data-bbox="288 672 1222 880"> <thead> <tr> <th data-bbox="288 672 518 763">Client</th> <th data-bbox="518 672 751 763">Duration</th> <th data-bbox="751 672 979 763">Value</th> <th data-bbox="979 672 1222 763">Brief Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="288 763 518 819"></td> <td data-bbox="518 763 751 819"></td> <td data-bbox="751 763 979 819"></td> <td data-bbox="979 763 1222 819"></td> </tr> <tr> <td data-bbox="288 819 518 880"></td> <td data-bbox="518 819 751 880"></td> <td data-bbox="751 819 979 880"></td> <td data-bbox="979 819 1222 880"></td> </tr> </tbody> </table>		Client	Duration	Value	Brief Description							
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<p><b>B. Personnel</b> Respondents must address the following information in an attachment and label it “ Personnel”:</p>	<p><b>Weighting</b> <b>&lt;30%&gt;</b></p>											
<p>i. Detail the project team and any back up resources to be utilised in this contract. Include the relevant roles to be performed, relevant experience and qualifications, and the suitability of each project team member for this project.</p> <p>ii. Provide a brief overview as to how you will ensure reasonable consistency in the nominated project personnel.</p>												
<p><b>C. Performance</b> Respondents must address the following information in an attachment and label it “Performance”:</p>	<p><b>Weighting</b> <b>&lt;25%&gt;</b></p>											
<p>i. Provide an overview as to your ability to perform these requirements including;</p> <ul style="list-style-type: none"> <li>• Your ability to respond urgently;</li> <li>• Meeting required standards and funding requirements;</li> <li>• Communication and reporting ability.</li> </ul>												
<p><b>D. Value</b> Respondents must address the following information in an attachment and label it “Value”:</p>	<p><b>Weighting</b> <b>&lt;10%&gt;</b></p>											
<p>i. Provide commentary as to how your organisation will provide suitable value to the Principal for each engagement.</p>												

### 4.3 Price Information

Respondents must complete the following “Price Schedule”. Before completing the Price Schedule, Respondents should ensure they have read and understood this entire Request for Quotation.

**a) Schedule of Rates**

Item	Role	Hourly Rate (Exc GST)	Hourly Rate (Inc GST)
1	(Example Project Manager)	\$	\$
2		\$	\$
3		\$	\$
4		\$	\$

**b) Disbursements**

Item	Description	Basis (EG Fee or Cost plus)	Fee
1	(Example Travel)	Cost Plus	%
2	(Example Accommodation)	Fee	\$
3			
4			

**Note:**

- Respondents may add to these Pricing Schedules as required.
- Disbursement may be provided as a fee or on a cost plus basis.
- Where fees are offered they are to be GST Inclusive

**c) Price Variation**

Description	Variation Method
Provide your proposed Price Variation Mechanism including the relevant indices, dates for application and an example.	<i>(Example – Perth CPI, To be applied on each Anniversary Date of the Contract)</i>



Australian Government  
Bureau of Meteorology

## Tropical Cyclones Affecting Exmouth

Located on the western tip of the Pilbara coast, the most cyclone-prone part of Australia's coast, Exmouth has felt the full force of one of the strongest cyclones in Australia's history. In March 1999 tropical cyclone *Vance* moved down Exmouth Gulf causing winds recorded to 267 km/h, the highest ever wind gust measured on the Australian mainland (see [TC Vance \(pdf report\)](#)).

It is difficult to compare historical cyclones prior to Exmouth being developed in the 1960s. The pearling fleet from Port Hedland regularly visited Exmouth Gulf in the late 1800s and in December 1875 a cyclone devastated the fleet sinking several boats and claiming 59 lives. Pastoral stations and then the Cape Vlamingh lighthouse (1911) provided some details of cyclones during the early years. The first recorded major cyclone impact was in February 1945 when the three-year old naval base was extensively damaged and troops were withdrawn.

Overall it is estimated that a cyclone impact causing wind gusts in excess of 90 km/h in the vicinity of Exmouth occurs about once every two to three years on average. However, the frequency is not evenly distributed. Since 1982 there have only been three cyclones causing gales, including *Vance*, but there were fourteen cyclones in the previous twenty years. Although the inadequacy of early wind records make it difficult to compare events, it is estimated that there have been four severe cyclones causing winds of at least 170 km/h since 1910: 1945, 1953, 1964 (*Katie*) and 1999 (*Vance*).

Along the central Pilbara coast the cyclone season runs from mid December to April peaking in February and March as shown in the graph of monthly occurrence (figure 4).

The development of the offshore oil and gas industries, and more recently, the tourism industry has increased the damage potential of cyclones in the region. Substantial economic losses can be incurred even with the threat of a cyclone impact owing to lost production or disruptions to shipping activities. Fortunately modern structures are built according to cyclone wind ratings and are far less susceptible to damaging winds than those constructed in earlier times.

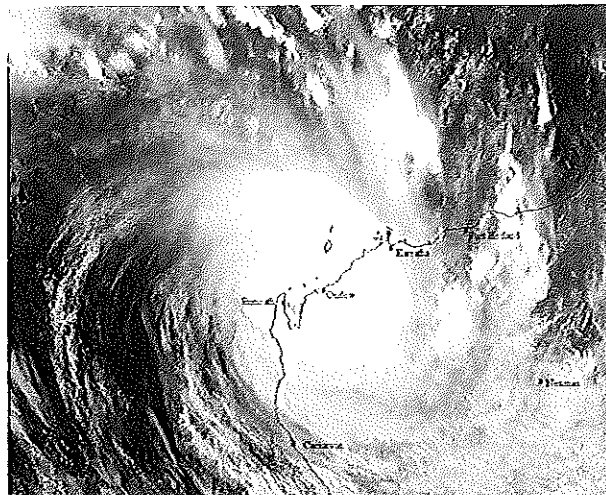


Figure 1. Satellite image of TC *Vance* near Exmouth, 22 March 1999.

[Click on image to enlarge.](#)

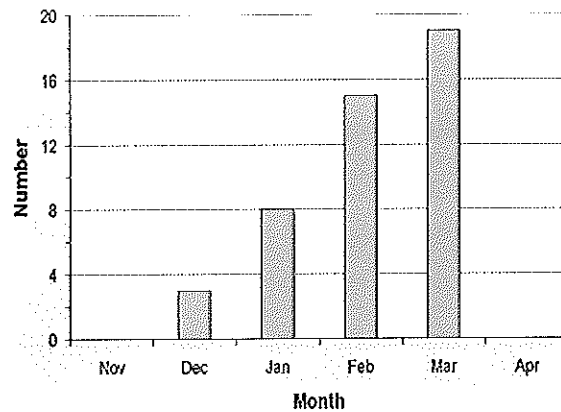


Figure 4. Monthly occurrence of cyclones affecting the Exmouth region. Click on image to enlarge.

## Flooding

By not being on a major river, Exmouth is not at risk of major flooding caused by rainfall alone. Localised flooding is certainly possible in susceptible areas especially near creeks and low-lying areas. The road link to the south is particularly vulnerable to being cut-off for a period following heavy rain. Major flooding in Exmouth is typically associated with storm surge, as discussed in the next section.

The heaviest rainfall is not necessarily associated with the most intense cyclones but rather with the cyclone's track, speed and areal extent. A tropical cyclone in 1918 caused 377.1 mm over two days at Exmouth Gulf station. Cyclone *Rita* in 1971 produced 226.6 mm of rain at Learmonth and 194.8 mm at Exmouth. Wind damage was minimal in both of these events.

## Storm Surge

Storm surge is a major threat around Exmouth Gulf. Storm surge is a complex function of cyclone intensity and motion, extent of maximum winds, bathymetry and coastline shape. The actual water level, called the storm tide is a combination of the storm surge and tidal variation. The worst case scenario is to have a severe cyclone pass near the town at the time of high tide, in which case the water level will be many metres above the highest astronomical tide. Given the significant tidal variations in the region, this is a rare occurrence. Even with an intense cyclone the highest surge is typically restricted to less than 80 km of the coast owing to the nature of the extent of a cyclone's maximum winds.

The graphic impact of TC *Vance* on the coast around Exmouth Gulf indicates how a storm surge can change the appearance of the coastline (see [TC Vance report \(pdf\)](#)). However, even during this event it was fortunate the 3.5 m storm surge did not occur at the time of high tide (see [storm surge graph](#)).

Tropical Cyclone	Wind Gust (km/h)	Impact Description
<i>Ingrid</i> , 15 Feb 1970	-	The second cyclone in two weeks damaged thirty houses and destroyed 18 m of the Learmonth fishing jetty.  Trees were uprooted and power lines brought down at Exmouth Gulf.
<i>Beverley</i> , 31 March 1975	152 (Navy Base)	Three prawn trawlers were blown onto the beach. Structural damage was caused to the Pistol Club, the Yacht Club and Norcape Lodge.  Extensive repair work was required on the Learmonth jetty as some of the vertical timbers were also damaged. Damage in the area was estimated at \$600,000.  The Coral Bay jetty was also washed away.
<i>Vance</i> , 22 March 1999	267	One of the strongest cyclones to ever affect mainland Australia, <i>Vance</i> passed down Exmouth Gulf. Damage to Exmouth was extensive although most modern buildings withstood the winds. A 3.5 m storm surge caused widespread damage near the marina (see <a href="#">TC Vance report (pdf)</a> ).

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**Australian Government**

**Bureau of Meteorology**

## **Tropical Cyclone Vance**

18 – 24 March 1999

Perth Tropical Cyclone Warning Centre  
Bureau of Meteorology

### **A. Summary**

Severe tropical cyclone *Vance* was one of the strongest cyclones ever to affect mainland Australia. After developing off Darwin on 17-18 March, *Vance* gradually intensified as it tracked to the west southwest then to the south before crossing the coast near Exmouth on 22 March as a category 5 system. *Vance* caused severe structural damage to about 10 per cent of buildings in the town though many more experienced less obvious damage due to intrusion of rainwater. A high storm tide caused coastal erosion and damage between Exmouth and Onslow - the estimated peak storm surge west of Onslow was estimated at over 5 m.

In addition to damage in the far west Pilbara, water and power supplies throughout the Gascoyne and Goldfields were disrupted and many homesteads sustained wind or flooding damage. The main rail and road links to the eastern states were cut.

### **B. Meteorological Description**

As the circulation associated with tropical cyclone *Elaine* moved slowly west, another low within the monsoon trough, which persisted over the north coast of Australia near Darwin for several days, moved into the Timor Sea. The low-level circulation, favourably situated beneath the upper ridge in a region of weak wind shear quickly intensified to cyclone intensity. *Vance* moved quite steadily west-southwest at first, then towards the southwest during 20-21 March. It intensified steadily and was declared a severe Category 3 cyclone late on 19 March. It was further upgraded to a Category 5 overnight on 20 March. The Perth TCWC posted the first cyclone warning for the Exmouth/Onslow area at 10 am WST on Saturday 20 March.

Late on 21 March the cyclone changed track to a due southerly course towards the Exmouth/Onslow area. The eye of the cyclone passed across Exmouth Gulf, approximately 25 kilometres to the east of Exmouth and 80 kilometres to the west of Onslow during Monday morning 22nd March. A record wind gust speed for the Australian mainland of 267 kilometres per hour was measured at the Learmonth Meteorological Office, 35 kilometres south of Exmouth shortly before midday. At Onslow the maximum gust recorded was 174 kilometres per hour. The combination of very high seas and high tides caused severe erosion of the beachfront at Exmouth. At Onslow the storm tide left 3 large barges stranded on the edge of Beadon Creek. The cyclone

Table 1. Best track summary for *Vance 14 – 23 March 1999*

Note: Add 8 hours to convert to WST. Refer to best track database for complete track details.

Year	Month	Day	Hour (UTC)	Position Latitude S	Position Longitude E	Max wind 10min knots	Central Pressure hPa	Rad. of Gales nm
1999	03	14	1800	12.4	131.9	25	1003	
1999	03	15	0000	12.3	132.0	20	1004	
1999	03	15	0600	12.0	131.9	25	1001	
1999	03	15	1200	11.9	132.0	25	1003	
1999	03	15	1800	11.8	132.2	25	1001	
1999	03	16	0000	11.8	132.3	25	1002	
1999	03	16	0600	12.0	131.5	25	1001	
1999	03	16	1200	12.2	131.1	25	1003	
1999	03	16	1800	12.3	130.7	25	1002	
1999	03	17	0000	12.3	130.2	25	1002	
1999	03	17	0600	12.3	129.7	25	1000	
1999	03	17	1200	12.4	129.0	25	1000	
1999	03	17	1800	12.5	127.8	30	998	
1999	03	18	0000	12.6	126.7	35	994	15
1999	03	18	0300	12.6	126.2	40	990	20
1999	03	18	0600	12.6	125.7	45	988	30
1999	03	18	0900	12.5	124.9	45	986	45
1999	03	18	1200	12.5	124.3	50	984	55
1999	03	18	1600	12.8	123.8	55	980	65
1999	03	18	1900	13.1	123.2	60	975	70
1999	03	18	2200	13.3	122.3	65	970	75
1999	03	19	0100	13.4	121.7	70	965	80
1999	03	19	0400	13.5	121.1	75	960	80
1999	03	19	0700	13.7	120.5	75	960	85
1999	03	19	1000	14.0	120.1	80	955	85
1999	03	19	1300	14.3	119.7	80	955	90
1999	03	19	1600	14.6	119.2	85	950	95
1999	03	19	1900	14.9	118.7	85	950	95
1999	03	19	2200	15.3	118.3	90	945	105
1999	03	20	0100	15.6	117.8	90	945	105
1999	03	20	0400	15.8	117.4	95	940	110
1999	03	20	0700	16.0	117.1	95	935	110
1999	03	20	1000	16.3	117.0	100	930	110
1999	03	20	1300	16.6	116.8	105	925	110
1999	03	20	1600	17.0	116.5	105	920	110
1999	03	20	1900	17.3	116.2	115	910	110
1999	03	20	2200	17.6	115.9	115	910	110
1999	03	21	0100	18.0	115.6	110	915	110
1999	03	21	0400	18.2	115.3	110	915	110
1999	03	21	0700	18.5	115.0	105	920	110
1999	03	21	1000	18.9	114.9	105	920	110
1999	03	21	1100	19.0	114.8	105	920	110
1999	03	21	1200	19.2	114.8	105	920	110
1999	03	21	1300	19.4	114.7	105	920	110



Figure 1. Track of Severe Tropical Cyclone Vance, 16 – 24 March 1999  
All times in WST.

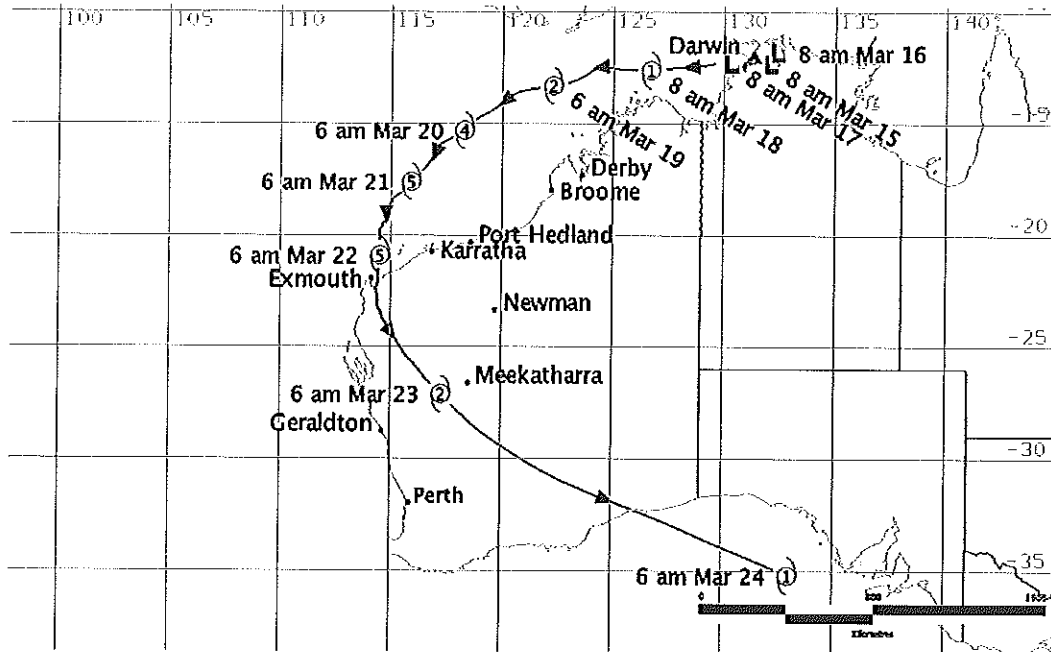


Fig. 2. Satellite image at 10:30 am 22 March 1999 showing the eye of TC Vance in Exmouth Gulf.

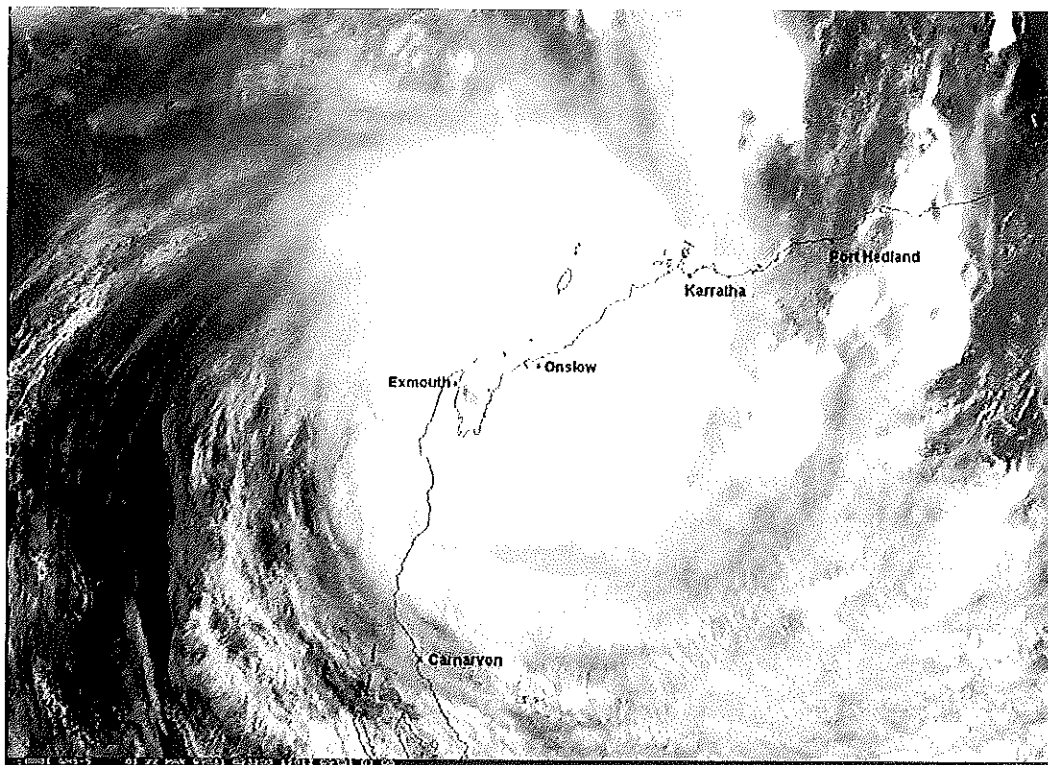


Fig. 5. Graph of the storm surge and storm tide at Exmouth 22 March 1999.

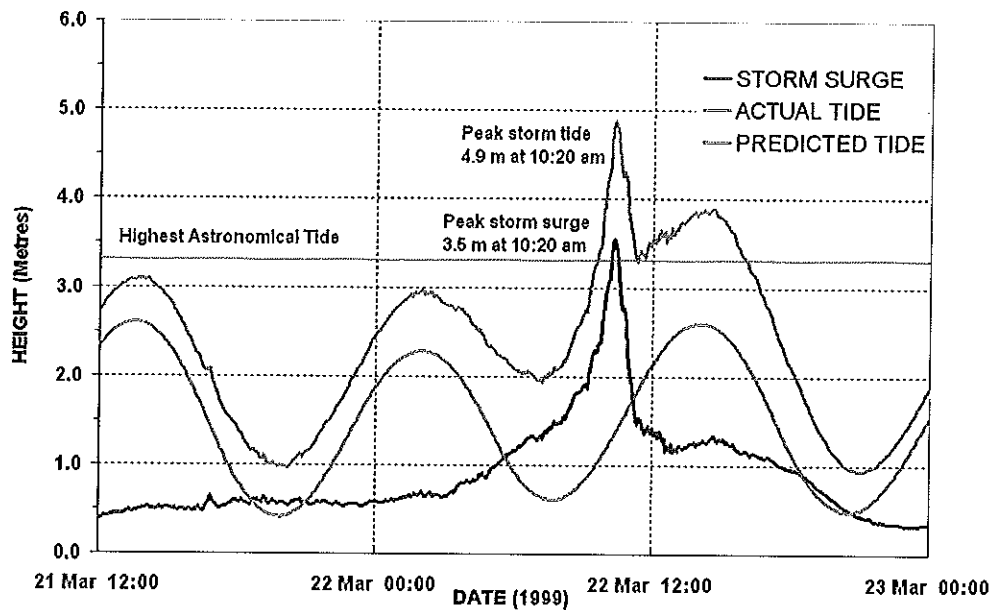


Fig. 6. Rainfall distribution 22 -25 March 1999.

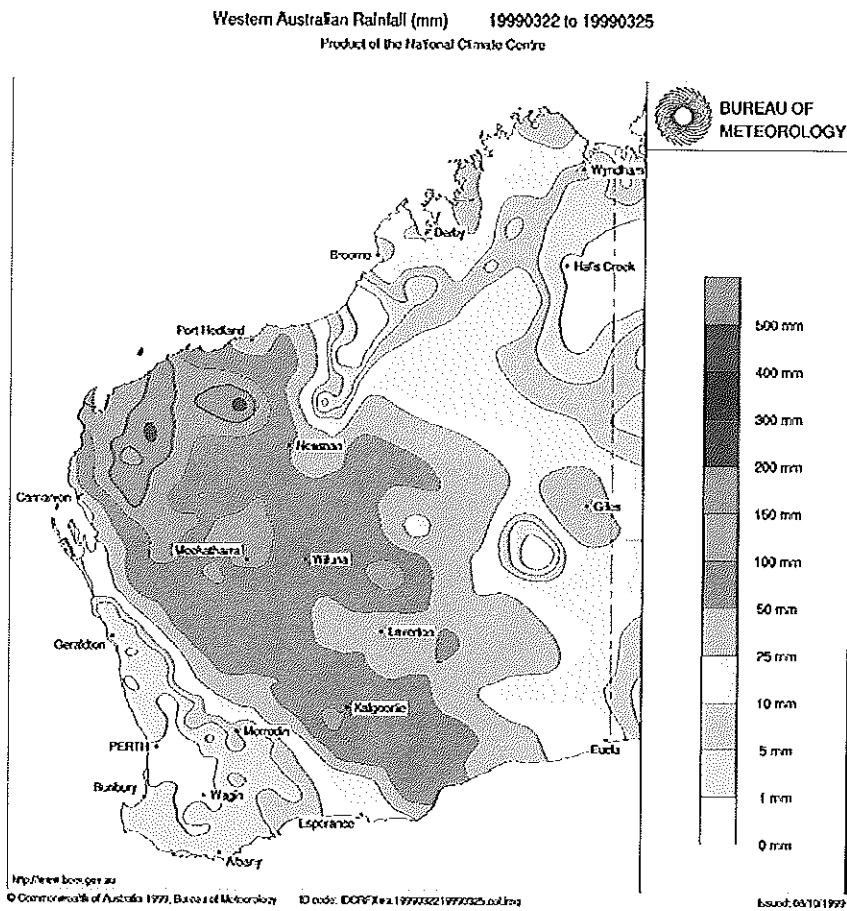


Fig. 9. Coastal erosion following the storm surge west of Onslow. Photo courtesy of Barry Hanstrum.



Fig. 10. Coastal erosion following the storm surge near Tubridgi Point, west of Onslow. Photo courtesy of Barry Hanstrum.



Fig. 13. Typical house and tree damage in Exmouth. Photo courtesy of Barry Hanstrum.



Fig. 14. Capsized boats at Exmouth marina. Photo courtesy of Barry Hanstrum.



Fig. 17. Damage to communications mast near Learmonth. Photo courtesy of Matt Gould.

