

REQUEST FOR QUOTE- Injune Road – Road upgrade – detailed design

RFQ # Q-2122-INF-89

Annexure 1

Section 1 Scope of Works

1.1 Overview of Project Objectives

Injune Road Upgrade from CH54100 (E149.32408, S25.63983) to CH67100 (E149.22534, S25.63515), locality plan attached.

The project will upgrade 13km of Injune Road and will upgrade the road from an unsealed road to a '**low cost**' seal road, key project outputs include:

- Road drainage repair – clearing of drainage structures, floodway repair and erosion control
- Pavement construction and widening – pavement strengthening and widening of narrow segments
- Bitumen seal – 4 meters wide, 2 coat bitumen seal, 6.5 meters wide 2 coat bitumen seal on blind corners/crests
- Line marking and signage – safety signage, line marking on blind corners/crests

1.2 Brief Description of the Works

Banana Shire Council are looking for an engineering consultant to complete the Injune Road Upgrade Design, the design will include:

- Pavement/seal design, including but not limited to:
 - Formation width 8.0m, Pavement width 6.5m, seal width 4m
 - Desirable Speed Environment 100km/hr, design speed for individual elements 80km
 - Geotech and existing pavement thickness assessment
 - Typical sections for road overlay and road widening
 - Cross sections at 20m spacing
 - Long sections
 - Driveway and property access interactions
 - Intersection design
- Stormwater pipe/culvert design (if required), including but not limited to:
 - Plan and sections
 - Hydraulic assessment
 - Flood immunity 2 ARI years

- Linemarking and signage plan, including but not limited to:
 - Controls for road segments not conforming with design parameter above
 - Intersection signs/lines
 - Stormwater, flooding and grid advisory signs and markers

The design will need to be 'for construction' and must be supervised by an RPEQ engineer, the design needs to be supplied in softcopy with survey setout points and electronic data for machine guidance. BSC can supply survey data and can assist with site inspections and subcontractor coordination.

1.3 Background

Injune Road is a Local Road of Regional Significance, Banana Shire Council's strategy is to upgrade the road to provide appropriate linkages for the resource industries, tourism, school bus routes, rural agriculture and livestock industries

The project will deliver the following benefits:

- Improved road user safety - the current road condition is poor, it is common for travellers relying on satellite navigation to incur breakdowns (predominantly associated with tyres) and become delayed during wet weather.
- Connectivity between the Injune and Taroom – Connectivity with the Injune and Taroom communities will increase due to improved road condition/comfort and travel time.
- Improved access for tourist's – The project will encourage grey nomads and other travellers to access western regions through the Stephenton, Belington Hut, and Hallett State Forests.
- Improved access for rural agriculture and livestock industries – The project will improve access and economics for the local agriculture and livestock industries by accommodating larger freight options in all weather conditions.
- Improved access for the natural gas industry – The project will improve access for the natural gas industry; the gas industry already provides significant resources in maintaining the unsealed road. The gas industry continues to explore east of the established gas wells, the road upgrade will provide all weather access to potential development areas.

1.4 Function to be performed

Detailed design for construction plans that will include:

- Pavement/seal detailed design
- Stormwater pipe/culvert detailed design (if required)
- Linemarking/Signage detailed design
- Survey control and machine guidance for construction

1.5 Performance Specifications

All designs to be completed to current CMDG and/or Austroads standards

1.6 Specification of Works to be carried out

Detailed design (as above) for Injune Road from CH54100 (E149.32408, S25.63983) to CH67100 (E149.22534, S25.63515).

1.7 Specification of Services to be performed

Detailed design for construction, this will include:

- Geotechnical investigation
- Hydraulic assessment
- Pavement/seal detailed design
- Stormwater pipe/culvert detailed design (if required)
- Linemarking/Signage detailed design

BSC will supply detailed survey data (design area), and can assist with Lidar survey data, services location and inspections.

1.8 Specification of Goods to be supplied

Detailed design plans (A3 softcopy) including survey control points and setout, AutoCad DWG's, electronic survey data for machine guidance.

1.9 Technical Requirements

All designs to be completed to current CMDG and/or Austroads standards

1.10 Pricing/Fee Proposal

Bill of Quantities to be provided with any provisional items and variation hourly rates.

1.11 Insurances

All designs are to be done under the guidance of a Registered Professional Engineer Queensland with appropriate insurances.

1.12 Resources Supplied by Banana Shire Council

BSC can supply survey data and can assist with site inspections and subcontractor coordination.

1.13 Site Preparation

N/A

1.14 Deliverables

Detailed design plans (A3 softcopy) including survey control points and setout, AutoCad DWG's, electronic survey data for machine guidance.

1.15 Site Possession Deliverables

Prior to site possession, the Contractor/Service Provider must have completed the following online activities:

Site familiarisation

1.16 Defect Period/Warranty

Engineering consultant to be available to reply to preconstruction design review questions and design queries during construction.

1.17 Delivery Dates or Delivery Period

All designs to be complete 'for construction' by 1/10/2022

1.18 Delivery Address or Work Location

Banana Shire Council email to:

Allan Heit (Manager Infrastructure Technology) - Allan.Heit@banana.qld.gov.au

Daniel Price (Senior Design Coordinator) - Daniel.Price@banana.qld.gov.au

Enquiries – enquiries@banana.qld.gov.au

1.19 Working Hours

N/A

1.20 Key Personnel

The following Key Personnel are anticipated for delivery of the work/services.

Role	Name	Qualifications & Experience	Allocation to Project (FTE %)	Time on Site (% or hours)
Site investigation team				
Design Team				
Registered Professional Engineer Queensland				

1.21 Environmental Requirements

Detail design to include environmental considerations, this may include erosion control during construction and temporary/permanent erosion control post construction.

1.22 Reporting Requirements

Throughout completion of the works, the Contractor must provide written reports

1.22.1 Daily Reports

N/A

1.22.2 Weekly Reports

N/A

1.22.3 Fortnightly Reports

N/A

1.22.4 Monthly Reports

N/A

1.22.5 Other Reports

Final Report on the design

1.23 Site Meeting Requirements

Predesign meeting – video conference or on-site, prior to design

Design progress review meeting - video conference or on-site, prior to detailed drafting

Final design meeting – video conference or on-site for handover

1.24 Other Work

N/A

1.25 Post Completion Support

N/A

1.26 Attachments

The following attachments form part of the Scope of Works:

Banana Shire Council - Injune Road - Locality Map Q-2122-INF-89.pdf - Locality plan and photos

1.27 BSC Policies

The Contractor must comply with the following BSC Policies in the completion of the works:

- Code of Conduct;
- Drug and Alcohol Policy;
- Procurement Policy; and
- Work Health and Safety Policy.
- Complete copies of these policies are available to the public on the BSC website at the following address: <https://www.banana.qld.gov.au>

1.28 Standards

The Contractor must comply with the following standards in the completion of the works: Workplace Health and Safety Regulations 2011;

- This Specification
- Council Policies (specific to the job)
- Capricorn Municipal Development Guidelines (CDMG)
- AustRoads

- Relevant TMR specifications

Section 2 Work Health & Safety Requirements

2.1 Project Safety Management Plan

N/A – Design only

2.2 BSC Inductions

N/A – Design only
