

Part C – Vocus application for a permit to install a submarine cable in Australian waters

1. Coral Sea Cable(CS2) route in Australian waters

Geographic co-ordinates of the CS2 route are at Attachment A of this application. A soft copy of these co-ordinates plus ArcGIS shapefiles has been delivered by hand to ACMA officers on 22 February 2019. A soft copy of survey data will be provided to the Australian Hydrographic Office.

[REDACTED]

2. Ownership and control of the ASC cable

[REDACTED]

3. Scheduled commencement and completion dates

[REDACTED]

Key project dates are-

- Installation of shore crossing and land cables Q2/3 2019
- Marine cable deployment Q2/3 2019
- System ready for service Q4 2019

4. Technical and economic aspect of the installation

Vocus has executed a supply contract for engineering and construction of the CS2 system with [REDACTED] - and an industry pioneer in undersea communications technology. These arrangements cover-

- Marine and seabed surveys and assessments;
- Technical design of the submarine cable system;
- All necessary marine operation, cable construction and installation permits;
- Securing the availability and use of the cable laying vessel;
- Manufacture, delivery and installation of the cable and repeaters;
- Installation of the power feed and electronics located at the cable landing stations;
- Testing and commissioning of the submarine cable system; and
- Ongoing operational and maintenance support of ASC initially for 2 years.

The ACMA also requests a brief description of the capacity of the proposed network and an indication of how the new installation may advance the delivery of telecommunications services in Australia. The main characteristics of the installation are-

- The base configuration cable consists of 4 fibre pairs with each pair being able to transmit a minimum of 10Tbits/s;
- The initial system loading will be 2 x 100Gbps over 2 fibre pairs from Sydney-Honiara and Sydney-Port Moresby with the design approach allowing additional capacity to be added while 'in service' via plug in cards.

The CS2 cable will advance communications in Australia by providing modern, high capacity services to PNG and the Solomons that will enhance commerce and trade between all countries.

[REDACTED]

[REDACTED]

Where possible, alternative installation methods have been evaluated to minimize environmental impacts. Such evaluations rely on a variety of inputs and controls including the use of field investigations (to assist with route selection), the accuracy of the vessel position fixing system during cable laying (to ensure the 'preferred route' is achieved) and compliance with Australian electrical and optical safety standards and codes.

CS2 contractual arrangements require cable deployment to comply with all relevant international and local legislation. From a technical perspective, the deployment requirements ensure that all works must comply with latest ITU-T specifications. All local works adhere to AS/ANZ standards, for example AS3000 for electrical wiring.

All dealings with other cable companies follow ICPC recommendations maintaining that cable crossing angles and cable routing decisions are made with an eye to minimum separation rules for maintenance etc.

[REDACTED]

[REDACTED]

By introducing the latest submarine cable technology, CS2 will provide PNG and Solomon Island economies a range of benefits including price, high capacity and quality of service.

5. Status of regulatory approvals – Commonwealth and others

| | |
|------------|------------|
| [REDACTED] | |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] |

[REDACTED]

[REDACTED]

6. Colocation with other cable systems

[REDACTED]

Consultation and notification of planned works with all parties, including sharing of survey

data, is a critical part of the consultation process. Detailed 'crossing packs' have been provided to all parties and these include a detailed description of cable crossing methodologies and works procedures.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Attachment B

