



CHEVRON AUSTRALIA OPERATIONS

TITLE: Aerial, Geographic and Terrestrial Survey Services (ID1407)

DESCRIPTION: Chevron Australia is seeking expressions of interest from service providers able to provide aerial, geographic, and terrestrial survey data acquisition and processing services in support of Company Operations in support of Asset Performance.

Contractor shall provide Aerial Capture (UAV component optional), Geographical Information Systems (GIS) Technical Services with Terrestrial Surveying (optional).

Scope of work include (but not limited to):

Aerial Capture

- Acquire and provide high resolution overlapping georeferenced orthorectified aerial digital imagery over areas of interest. Preference for ability to capture 4-band imagery.
 - The image capture specifications covering resolution and vertical and horizontal accuracy will be defined in individual Work Requests. For aerial imagery, preference for ability to capture at 10cm GSD resolution or better.
- Provision of 3D terrain definition using aerial/remote sensing methodologies to produce Digital Elevation Models (DEM) to enable comparison to other surveys.
 - Must be able to provide both the Digital Surface Model (DSM) and Digital Terrain Model (DTM);
 - Can be acquired via photogrammetry, LiDAR, or other technologies to develop results comparable to past, current and future acquisitions.
- Company may require Contractor to acquire other remotely sensed information such as multi spectral, hyperspectral, thermal and light intensity data.
- Ability to provide a range of satellite imagery in quick response to support Emergency Response requirements.
- Provision of scope specific technical reports including calibration, processing, control and metadata.
- Provision of all raw captured, and processed data for Lidar data. For all other data, it shall be per Company specifications.
- Provide capabilities for Unmanned Aerial Vehicle (UAV) survey, in line with Company and Australian aviation standards (optional scope).

Geographic Information Systems (GIS) Technical Services

- Company may require the provision of specialised GIS services deriving GIS products from aerial and terrestrial capture including surface generation, contours, volumes, land classification, change detection.
- Geometric correction and orthorectification of imagery.
- Radiometric correction, calibration and processing (including pan sharpening, colour balancing) of imagery for consistency between acquisitions. Enabling comparison to existing Company products.
- Where required georeference and colour balance historical aerial photographs supplied by Company in either hard copy or electronic format.
- Hardcopy and digital output in Company specified format including Company naming standards
- Spatial data management.
- Cartographic map production.
- Production, visualisation and fly through of spatial datasets in 3D models.
- Feature extraction, image interpretation including integration with existing datasets (aerial imagery, LIDAR).

Terrestrial Surveying (optional scope)

- Provision of survey to engineering specifications.
- Terrestrial Laser scanning.
- Instruction/installation of ground survey controls (GPA base stations, ground control locations) necessary for airborne and/or Unmanned Aerial Vehicle (UAV) captures including geometric and radiometric controls.

CONTACT: Industry Capability Network of Western Australia –
www.icnwa.org.au/ContactUs.asp

Please Note: This is a request for specific expressions of interest. Service Providers will be considered for inclusion in the RFP if suitably qualified against this package.

PROJECT URL: <https://australia.chevron.com/>

ATTACHMENT:

CLOSING DATE: 6 April 2022