

Template

Proposal Content Document

Table 1: General proposal content description

Proposal title	Katanning Gold Project
Proponent name	Ausgold Exploration Proprietary Limited
Short description	The Proposal is to construct and operate an open cut gold mine approximately 275 kilometres (km) southeast of Perth and 37 km northeast of Katanning, Western Australia (WA). The Proposal includes a Disturbance Footprint (DF) of up to 1,141.38 ha within a Mine Development Envelope (MDE) of 2,233.82 ha. Within the DF, clearing of up to 61.62 ha of vegetation is proposed, including approximately 49.97 ha of native vegetation over a 10-year life of mine. The annual total pit dewatering volume is estimated to be an average of up to 0.9 gegalitres per year (GL/yr) with a maximum of 0.886 GL/yr for a 10-year LoM. The Proposal includes activities on mining tenements within the MDE being: • Development and operation of Open Cut pits to depths above and below water table; • Haulage of ore from pits to a purpose-built processing plant; • Groundwater collection from mine pit sumps to facilitate mining below the water table and to supplement water supply to processing; • Surplus water management, including but not limited to mine water use, or ponds (including an integrated landform/TSF); • Mined materials management including, but not limited to, waste rock landforms, ROM high grade stockpiles, in-pit storage and low-grade ore stockpiles. • Storage of process waste (tailings) in an above ground Tailings Storage Facility, within an integrated waste landform; • Topsoil and subsoil stockpiles; and • Linear and ancillary infrastructure to support mining, including access and haul roads, hybrid power plant (solar panels, BESS and LPG turbines), process water and slurry reticulation, offices and workshops etc.

Table 2: Proposal content elements

Proposal element	Location / description	Maximum extent, capacity or range
Physical elements		
Mine Elements including: • Open cut pits (with a depth greater than 5 m below ground water); • Waste Rock Landforms; • Run of Mine Pad (ROM Pad); • Topsoil stockpiles; • Low Grade Ore Stockpiles • Haul roads and access roads; • Noise bunds; and • Dewatering infrastructure.	Figure 2-1 of EPA Referral Supporting Document.	DF of up to 1,141.38 ha within a MDE of 2,233.82 ha.
Processing Plant Including: • Ore Stockpiles; • Primary Crusher; • Balancing Water storage and evaporation ponds; • Ore Processing Facility (wet and dry), SAG and Ball mills and associated processing and recovery infrastructure; and • Storage of mineral processing waste (TSF - keyed into IWL).	Figure 2-1 of EPA Referral Supporting Document.	DF of up to 1,141.38 ha within a MDE of 2,233.82 ha.
Supporting Infrastructure including: • Mine Services Area with ancillary buildings and support infrastructure including, but not limited to, offices, workshops, hydrocarbon/chemical storage, and explosive storage/handling facilities; • Waste management facilities; • Power generation and distribution infrastructure, including a hybrid powerplant	Figure 2-1 of EPA Referral Supporting Document.	DF of up to 1,141.38 ha within a MDE of 2,233.82 ha.

Proposal element	Location / description	Maximum extent, capacity or range
comprised LGP generators and Solar PV; • Surface water management infrastructure including but not limited to levees, diversions, culverts, drains, floodways, sediment control and other water quality management structures; and • Domestic on-site wastewater treatment systems.		
Borefield elements including: • Water management infrastructure including but not limited to abstraction, conveyance, water treatment and storage; and • Pipelines and access/pipeline corridors.	Figure 2-1 of EPA Referral Supporting Document.	DF of up to 1,141.38 ha within a MDE of 2,233.82 ha.
Construction elements		
Key construction elements will include, but are not limited to, the following physical and operational elements: • Clearing and grubbing; • Starter embankments for TSF; • WRL; • Pit commencement; • Water management infrastructure; • Temporary offices/ablutions; • Access roads and haul roads; • Borrow laydowns; • Pipelines and pipeline corridors; • Movement of topsoil, and bulk earthworks; and	Figure 2-1 of EPA Referral Supporting Document.	DF of up to 1,141.38 ha within a MDE of 2,233.82 ha.

Proposal element	Location / description	Maximum extent, capacity or range		
Waste management facilities.				
Operational elements				
Mining	Figure 2-1 of EPA Referral Supporting Document.	Up to 320 Mt of total mined material (ore and overburden) over life of mine (LoM).		
Ore Processing Facility (OPF)	Figure 2-1 of EPA Referral Supporting Document.	Up to 320 Mt of total mined material (ore and overburden) over life of mine (LoM).		
Tailing Storage Facility (TSF)	Figure 2-1 of EPA Referral Supporting Document.	Maximum of 40.0 million tonnes over the LoM, to be stored in a TSF/ Integrated Waste Landform (IWL).		
Waste Rock Landform	Figure 2-1 of EPA Referral Supporting Document.	IWL and/or WRLs at an average deposition rate of 25.6 Mtpa.		
Groundwater Abstraction	Figure 2-1 of EPA Referral Supporting Document.	Abstraction of up to 3 gigalitres per annum (GL/yr) for pit dewatering and water supply.		
Water Management/Mine Dewatering	Figure 2-1 of EPA Referral Supporting Document.	Mine pit dewatering up to 0.9 GL/yr pumped from in-pit sumps to processing plant and temporary storage. Managed on-site by dynamic site-based water balance, including by evaporative cannons on TSF to retain all process and surplus contact water on-site; No discharge to offsite environment.		
Hybrid Power Plant Operation	Figure 2-1 of EPA Referral Supporting Document.	Thermal Installed Capacity	Gas	30.3 MW
			Diesel	3.0 MW
		Solar PV Installed Capacity		40.9 MWp
		BESS Installed Capacity		20.0 MW/ 44.2 MW/hr
		Total Installation Capacity		94.1 MW
Waste water treatment	Figure 2-1 of EPA Referral Supporting Document.	Shire approved on-site disposal systems (<100m3/d).		

Proposal elements with greenhouse gas emissions		
Scenario	Scope	Emissions over LoM (t CO2-e)
Baseline Scenario (proposed)	Scope 1	882,379
	Scope 3	256,412

	Scope 1 + 3 Total	1,138,791
Scenario 1 option (Solar Farm and Electrification of Mining Fleet and Mobile Equipment)	Scope 1	776,678
	Scope 3	223,257
	Scope 1 + 3 Total	999,935
Rehabilitation		
Progressive rehabilitation will be undertaken over the life of the mine where operational requirements allow and where practicable. At the cessation of mining and processing, the site will be rehabilitated in accordance with the Katanning Gold Project Mine Closure Plan. The Mine Closure Plan associated with approvals under the Mining Act will plan for landforms (such as WRLs and the IWL/TSF) will be designed to be safe, stable, non-polluting, whilst meeting overarching objectives for closure in consultation with key stakeholders. An Offset Management Plan has also been developed.		
Commissioning		
Commissioning of the Ore Processing Facility-Plant/TSF/water and ancillary infrastructure to be undertaken in accordance with approval issued under the EP Act, Mining Act and other legislation and will be subject to operational limits above.		
Decommissioning		
The Mine Development and Closure Proposal (MDCP), associated with approvals under the Mining Act, will provide a plan for decommissioning of the mine and post-closure land use. All infrastructure will be removed unless ownership is transferred to a third-party.		
Other elements which affect extent of effects on the environment		
Proposal time*	Maximum project life	Approximately 10.3 years plus closure and rehabilitation phase.
	Construction phase	Approximately 18 months.
	Operations phase	Approximately 10.3 years.
	Decommissioning phase (Staged Approach)	Approximately 3 years. Jackson/Olympia Zone – by Year 8.

* Proponents should only provide realistic timeframes to avoid unnecessary change to proposal applications at referral (section 38C), assessment (section 43A) or post assessment (section 45C).