Foreign direct investment and poverty alleviation in Tanzania: a case of Bulyanhulu and Geita Gold Mines Limited in Kahama and Geita districts

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Annex

Annex A1   Research questions

Research questions	Subresearch questions	Question variables	Data collection methods	Type of data	Data analyses
(a) What is the contribution of the gold mining sector in Tanzania?	(i) How does gold export fare as far as national income is concerned? and How much foreign exchange trading is realised from the sector compared to other sectors of the economy?	- Gold export versus other export products - Export trends between 1999-2008 - Other intangible benefits	Structured interviews in selected villages Literature surveys: -official documents -reports and archives	Both primary and secondary data	- Qualitative analysis - Quantitative analysis
	(ii) **Taxation**: What are the minerals related tax systems and revenues in Tanzania?	- Types of taxes for gold - Tax policy agreements for mineral resources - Royalties - Corporate taxes - Land taxes	Structured interviews in selected villages Literature surveys: -official documents - reports and archives	Both primary and secondary data	- Qualitative analysis - Quantitative analysis using SPSS 17.0

Research questions	Subresearch questions	Question variables	Data collection methods	Type of data	Data analyses
		- Lease rental - Comparative analysis of pre-reform and post-reform mining legislation			
	(iii) **Revenue**: How much revenue accrues from gold mining and from what sources?	- Estimates of revenue - Sources of revenue - How are the revenues administered - Public perceptions of gold mining revenue			
	(iv) **Employment**: How much opportunity does the sector offer, in contrast to small-scale mining? What is the nature of the employment opportunities generated by the sector?	- Skills and technology transfer - Direct and indirect employment	Structured interviews in selected villages Literature surveys: -official documents - reports and archives	Both primary and secondary data	- Qualitative analysis - Quantitative analysis using SPSS 17.0

Research questions	Subresearch questions	Question variables	Data collection methods	Type of data	Data analyses
	(v) **Income**: What are the income differences between large-scale and small-scale mining?	- Income differences between LSM and SSM	Structured interviews in selected villages Literature surveys: -official documents - reports and archives	Both primary and secondary data	- Qualitative analysis - Quantitative analysis using SPSS 17.0
(b) What are the effects of gold mining on livelihoods in LVGB?	(i) How is the livelihood of the community in the LVGB?	- Perception of livelihood among the local communities - Attributes of livelihoods of local communities - Perception of poverty	Semi-structured interviews in selected villages Focus group discussions Literature review	Both primary and secondary data	- Qualitative analysis - Quantitative analysis using SPSS 17.0
	(ii) What are the perceived socio-economic impacts of gold mining on local communities?	**Local Communities and Migrants** - Income (employment or unemployment) - Housing - Family organisation (relocation/networks) - Prostitutions - Crime rates	Livelihoods workshop - Local perception through group discussions - Structured interviews - Plenary sessions - Brainstorming	Both primary and secondary data	- Qualitative analysis - Quantitative analysis using SPSS 17.0

Research questions	Subresearch questions	Question variables	Data collection methods	Type of data	Data analyses
		- Drug abuse - Migration - Change of land use			
	(iii) How has gold mining changed local livelihoods?	- Accessibility to livelihood assets - Livelihoods strategies - Land use - Crop choices - Land alienation	Semi-structured interviews in selected villages Focus group discussions Observation	Both primary and secondary data	- Qualitative analysis - Quantitative analysis
	(iv) What shocks and stresses are associated with mining activities in LVGB?	**Environmental** - Land degradation - Loss of vegetative cover - Land conflicts - Shortening of agricultural fallow systems - Bio-diversity (birds, animals and plants) - Water pollution - Dust (palatability to livestock and people) - Chemical/gases/fumes - Black smoke	Semi-structured interviews in selected villages Focus group discussions Literature surveys: -official reports -policies	Both primary and secondary data	- Qualitative analysis - Quantitative analysis

Research questions	Subresearch questions	Question variables	Data collection methods	Type of data	Data analyses
		- Noise (blasting, drilling etc.) & vibrations (abortions in livestock, cracking of walls, stress and discomfort)			
		- Vehicle and machine movements			
		- Heap leaching			
		- Ore and waste rock handling			
		Health			
		- Respiratory diseases (asthma, silicosis, tuberculosis, bronchitis, lung problems)			
		- Eye diseases			
		- Skin diseases (rashes)			
		- Occupational hazards			
		- Diarrhoea			
		- Sexually transmitted diseases (in particular			

Research questions	Subresearch questions	Question variables	Data collection methods	Type of data	Data analyses
		HIV/AIDS)			
		Social cultural and economic - Prostitution - Income disparities (access to housing, food and other amenities) - Child labour - School leavers - Crime - High populations density - Land alienation			
(c) What are the links between gold mining and local economic development?	(i) What are the mining companies' CSR strategies, delivery approaches and practices?	- Improvement of settlements (water, health, education, transport, sanitation) - Basic service delivery (private or commercial, public utilities, latrines, waste management, etc.) - Stimulate local economy	In-depth interviews with officials: - Government - Mining companies - Other local institutions	Both primary and secondary data	- Qualitative analysis

Research questions	Subresearch questions	Question variables	Data collection methods	Type of data	Data analyses
		(individual, micro-, meso- and co-operative development)			
		- Business development services			
		- Skill developments (training and vocational centres)			
		- Warehouse facilities			
		- Freight infrastructure			
		- Local governance (land use conflicts, environmental control, balanced land use and maximising spill-over effect of mining investment, community participation)			
	(ii) What is the state of public-private partnerships?	- Corporate social responsibility (practices, perceptions & its management)	In-depth interviews with officials:	Both primary and secondary data	- Qualitative analysis
		- Planning development and management of physical infrastructure (education,	- Government		
			- Mining companies		
			- Other local institutions		

Research questions	Subresearch questions	Question variables	Data collection methods	Type of data	Data analyses
		health, water, energy, roads, finance and credit, housing)			
	(iii) How strong is mining companies' 'crowding effect' on other institutions in LVGB?	- Linkages between local government, community based groups and private sector in managing existing resources, jobs and promoting the economy of the area - Local control of resources - Human resource development - Institutional and physical capsacities	In-depth interviews with officials: - Government - Mining companies - Other local institutions Literature surveys: -official reports -policies	Both primary and secondary data	- Qualitative analysis