

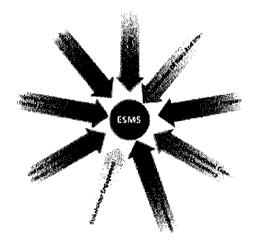
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PERIODIC MAINTENANCE OF GRAVEL ROADS: REGRAVELLING CONTRACT IN THE WINDHOEK REGION (CONTRACT: GRU-WHK 01)

PROCUREMENT REFERENCE NO: W/ONB/CPBN-04/2020

Our Reference: Adaptive Building-Environmental & Social Management Plan



DATE: 12 October 2021

ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN

Table 1.: Environmental & Social Management Plan

Component	Communication and stakeholder consultation					
Component						
Γarget	To ensure that all stakeholders are adequately informed throughout construction and that there is effective communication with and feedback to the consultant and client.					
Management Measures		Responsibility/ Partnerships				
	• The Contractor must appoint a community liaison officer to mediate between the contractor, community, client and consultant.					
	• The Contractor shall appoint a person from the construction team to take responsibility for the implementation for all provisions of this ESMP.	Contractor.				
	 The Contractor shall at every site meeting report on the status of the implementation of all provisions of the ESMP. 	Environmental and Social Consultant to monitor				
	• The contractor must sensitise all members of the workforce and personnel according to the Environmental and Social Code of Conduct, which shall be provided by the Environmental and Social Consultants before construction commences.					
	• The Contractor shall liaise with the social and environmental consultants regarding all issues related to community consultation and negotiation before construction commences. The communication plan, as included in the tender document, shall be binding.	Environmental and Social Consultant to monitor				
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-	Component	Health & Safety To ensure health and safety of workers and the publi	o at all time de Alace	
<u>~</u>	Target			
]	Management	Measures	Responsibility/ Partnerships	
ļ	 The Contra disruption constructio 			
•	how road o	y should include a schedule of work indicating when and crossings (construction at existing intersections) will be e schedule should be updated and distributed to all s.		
•		ctor shall also liaise with the Traffic Authorities for their this regard.		
	construction Authority. I to Health a	fic and safety warning signs must be placed at the n site to the satisfaction of the Engineer and the Roads The Contractor must adhere to the regulations pertaining and Safety, including the provision of protective clothing, the Contract may be ended with immediate effect.		
•	Dust protect complain at	ction masks shall be provided to staff members if they bout dust.		
•	Potable wat	er must be available to workers to avoid dehydration.		
!			Contractor Social Consultant to monitor	
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Table 1.: Environmental & Social Management Plan (cont.)

Г		ironmental & Social Management Plan (cont.)	
	Component	Communication and stakeholder consultation To ensure that all stakeholders are informed through	
	Target	out construction and eack to the consultant	
	Management N	Responsibility/ Partnerships	
	At the outse applicable), all proposed sites, and of be clearly disturbed or and final arr topsoil and with the guishall be connot yet been		
	No off-road d	lriving shall be allowed, except on the agreed upon haul oads.	
	with a trunk reserves on vegetation, u roads. Lay- within the ex	hall only be cleared within the road reserve, while trees a diameter exceeding 100mm shall be left intact. The either sides of this corridor may not be cleared of nless permission is given to do so for detours or access byes must be made around mature trees if necessary, issting road reserve.	
•	An amount of payment cert	of N\$ 5 000,00 will be deducted from the Contractors cificate for every mature tree removed without approval.	Contractor.
•	No trees may any member	be felled or live wood in the project area removed by of the construction team, including sub-contractors.	Environmental and Social Consultant to
	payment cert been broken	to N\$5 000,00 will be deducted from the contractor's tificate if it is shown that trees and/or branches have down unnecessarily, or that any plants have been gally, by any of the staff or sub-contractors.	Social Consultant to monitor.

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Table	1 .	Environmental	2 -	Casial	Management Plan	1000	المحسنه
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Component	Waste Management & Water Resource Management					
Target	To avoid contribution to potential surface and groundwater pollution get To ensure that sound waste management practices are adhered to during construction.					
Managemen	t Measures	Responsibility/ Partnerships				
	Building rubble and other waste generated during construction must be disposed of on a regular basis at an approved waste disposal site.					
	Adequate separate containers for hazardous and domestic waste must be provided on site and at the construction camp.					
	The workforce must be sensitised to dispose of waste in a responsible manner and not to litter.					
	No waste may remain on site after completion of the project.					
	• The Contractor shall submit a waste management plan, including how it is intended to dispose of hazardous waste, as described hereunder.					
	Waste must be disposed of at the approved waste disposal sites. No waste may be burned on site.					
	• Servicing of vehicles in the field or at the construction camp is not permitted, except for large immobile vehicles which may be serviced at the camp, on condition that oils and lubricants are prevented from spilling through the use of drip trays or other suitable containers.	Contractor and Workforce.				
	Accidental spills must be cleaned immediately. The contaminated soil must be suitably disposed of in a container for hazardous waste.					
	• Oil, lubricants, and other hazardous materials must be stored in separate containers (concrete liner, container, or metal or plastic drip tray) and stored for transport and disposal at an approved waste disposal site or for collection by an oil recycling company such as WESCO Salvage (this company collects significant quantities of oil from central locations throughout the country).					
	Fuel tanks on site must be properly bunded.					
	• Foam fire extinguishers must be in close proximity to fuel kept on site. There should be trained personnel to handle this equipment.					
	The contractor shall utilise water only as specified in the approved water abstraction plan for the project.					

Table 1.: Environmental & Social Management Plan (Continued)

Component	Rehabilitation				
To rehabilitate the site office, work sites, servitude areas, tracks an areas disturbed during construction as close to their original state a reasonably possible.					
Management	Measures	Responsibility/ Partnerships			
	All bunding, equipment, waste, temporary structures, stockpiles etc. must be removed from the camp and work sites.				
	• All disturbed areas, except lay-byes specifically kept for the creation of craft markets, shall be reshaped to their original contours; as close as possible to the natural conditions before construction commenced, including the road reserve, detours, construction camps, and temporary access routes.				
	All borrow-pits along the roads to be constructed, including existing ones must be rehabilitated.				
	• The contractor shall liaise with the applicable local headmen and residents regarding whether their borrow-pits shall be shaped as water reservoirs during rehabilitation.				
	• At those borrow-pits not to be shaped as such, topsoil (the top layer of organic material, even if the topsoil in non-existent, the top layer of organic material) at borrow pits shall be stockpiled separately and the stockpile maintained for use at the end of the contract to rehabilitate the borrow pits.	Contractor			
	• The borrow pits shall be rehabilitated by trimming the sides to a slope not steeper than 30° and evenly spreading the topsoil over the area to allow for the growth of new vegetation.				
	All spoil material at the borrow pits shall be neatly shaped.				
	• Islands around trees shall be at least 3m in radius from the trunks and compacted to prevent erosion. No roots shall be left exposed from these islands.				
	The derelict portions of the old gravel road, which do not coincide with the new alignment, must be ripped, except for the lay byes to be converted into craft markets.				
	Alien vegetation particularly the Downy thorn apple (Datura innoxia) and Wild tobacco (Nicotiana glauca) that occur in the project corridor must be weeded.				
	All cuttings must be shaped with a slope to provide a natural appearance, without having to destroy significant vegetation on top of the slope.				
	• Final payment will not be issued unless the environmental consultant is satisfied with the obligations listed under this section ("rehabilitation").				

Table 1.: Environmental & Social Management Plan (Continued)

Component	Component Facilitation of Employment Creation				
Target	To ensure that physical facilities provided are used to improve the economic situation of residents in the project area.				
Management Measures		Responsibility/ Partnerships			
Government and Non-Governmental Organisation's to assist residents to set up markets, and craft stalls to market their wares of		Social consultant and Constituency Development Committee.			