

Schedule No. 4c. Environmental, Social, Health and Safety (ESHS) – Cost Schedule

Item	Description	Qty (1)	Unit Price		Total Price	
			Foreign Currency Portion (specify currency) (2)	Local Currency Portion (specify currency) (3)	Foreign Currency Portion (specify currency) (1x2)	Local Currency Portion (specify currency) (1x3)
ESHS 2001	Soil erosion					
	a. Apply soil erosion control measures such as; levelling of the project excavated site	1 Lot				
	b. Increase infiltration of storm water into the soil.	1 Lot				
ESHS 2002	Noise & vibrations					
	a. Implementation of Noise prevention program as stipulated in EMCA and OSHA from construction activities	1 Lot				
	b. Working at night due to restrictions	1 Lot				
ESHS 2003	Dust emission					
	a. Sprinkling water on excavated soil when necessary to reduce dust	1 Lot				
	b. Personal Protective equipment to be provided to employees and worn especially mouth mask	1 Lot				
ESHS 2004	Worksite Safety, accidents and Health Hazards to employees					
	a. Provision of all appropriate PPEs to the contractor's employees	1 Lot				
	b. necessary and appropriate warning signs in various points that are risk.	1 Lot				
	c. Barricade and conspicuous warning tapes for the open trenches	1 Lot				
	d. Provision of the first aid kits on site with trained first aiders.	1 Lot				
ESHS 2005	Mono pole foundations					
	a. Traffic control marshals during monopole construction	1 Lot				
	b. Site watch guards for risky foundations	1 Lot				
ESHS 2006	Fire hazards and outbreaks					
	a. Install safety guard nets under the line to arrest the line in case of possible snap	1 Lot				
	b. Adequate firefighting appliances at specified localities on the worksite to meet any emergency resulting from ignition of a fire.	1 Lot				
ESHS	Traffic management					

2007	a. Traffic marshals where/when required to control traffic	1 Lot				
ESHS 2008	Water consumption					
	a. Install water conserving taps that turn-off automatically when water is not being used	1 Lot				
	b. Regular sensitization of the construction workers to conserve water	1 Lot				
ESHS 2009	Health concerns					
	a. The contractor to liaise with the public health office to license the food kiosk owners.	1 Lot				
	b. The contractor to provide clean drinking water to members of staff.	1 Lot				
	c. Provision of adequate and mobile rest rooms to members of staff.	1 Lot				
	d. Regular sensitization and creation of awareness among the staff on HIV/AIDS and other sexually transmitted diseases	1 Lot				
	e. Provision of condoms	1 Lot				
ESHS 2010	Use of an integrated solid waste management system					
	a. Provide facilities for proper handling and storage of construction materials to reduce the amount of waste caused by damage or exposure to the elements	1 Lot				
	b. Dispose waste more responsibly by contracting a registered NEMA waste handler who will dispose the wastes at designated sites or landfills only	1 Lot				
	c. Waste collection bins to be provided at designated points	1 Lot				
ESHS 2011	Exhaust emission					
	a. Sensitize truck drivers to avoid unnecessary running engines of stationary vehicles and to switch off engines whenever possible	1 Lot				
ESHS 2012	Generation of waste water					
	a. Provide means for handling sewage generated at the construction site-use of mobile toilet	1 Lot				
ESHS 2013	Oil spill hazards					
	a. Any contaminated soil shall be scooped and disposed off appropriately.	1 Lot				
	b. In case of spillage the contractor should isolate the source of oil spill and contain the spillage using sandbags, sawdust, absorbent materials	1 Lot				
ESHS 2014	Traffic effect on Infrastructure					
	a. Employ a road safety officer to oversee implementation of the traffic controls	1 Lot				
ESHS	Social vice impact					

2015	a. Build and improve project staff capacity to address risks of SEA/GBV through the development of guidance, training and continuous provision of learning activities and materials	1 Lot				
	b. Regular sensitization and training for all project workers on human rights, gender and GBV and its consequences	1 Lot				
ESHS 2016	Risk of motorized trucks knocking the monopole along road reserve					
	a. Construction of concrete barriers around the monopole towers	1 Lot				
ESHS 2017	AP1-AP2 Hanging of the overhead conductor					
	a. Introduction of the safeguard nets below the conductors to enhance the safety where necessary	1 Lot				
ESHS 2018	Excavations of the underground cables trenches of around 1.2 kms metres- Soil Erosion especially during the rainy season					
	a. Apply soil erosion control measures such as levelling of the excavated site to reduce run-off velocity and increase infiltration of storm water into the soil.	1 Lot				
ESHS 2019	AP2-AP8 (Road side excavation): Congestion of traffic					
	a. Use of traffic controlling marshals	1 Lot				
	b. Introduction of traffic signs	1 Lot				
	c. Liaise with the Traffic Police Department and the county government in Mombasa on how to control traffic	1 Lot				
ESHS 2020	AP8-AP11: (Shimanzi Road) - Safety concern of hanging conductors (Hanging of the overhead conductors)					
	a. Introduction of the safeguard net below the conductors to enhance the safety where necessary	1 Lot				
ESHS 2021	Safety of erected monopole towers-Risk of motorized trucks knocking the monopoles along the road reserves					
	a. Construction of concrete barriers around the monopole towers	1 Lot				
ESHS 2022	Use of cranes and other motorized equipment:					
	a. Sensitize construction vehicle drivers and machinery operators to switch off engines of vehicles or machinery not being used.	1 Lot				
	b. Sensitize construction drivers to avoid running of vehicle engines or hooting	1 Lot				
	c. Ensure that all generators and heavy-duty equipment are insulated or placed in enclosures (containers) to minimize ambient noise levels.	1 Lot				

ESHS 2023	AP11-AP12-Grain Bulk Handlers along Beira Road Two 33 kV Lines: Safety concern of hanging conductors:(Hanging of the overhead conductors)					
	a. Introduction of the safeguard net below the conductors to enhance the safety where necessary	1 Lot				
ESHS 2024	Safety of erected monopole towers:(Risk of motorized trucks knocking the monopoles along the road reserves)					
	a. Construction of concrete barriers around the monopole towers	1 Lot				
ESHS 2025	Increase of Motorized vehicles/machines: Congestion of traffic					
	a. Use of traffic controlling marshals	1 Lot				
	b. Introduction of traffic signs in liaison with traffic police	1 Lot				
ESHS 2026	Mono pole Erection and string of conductors (Use of cranes and other motorized equipment)					
	a. Ensure that all generators and heavy-duty equipment are insulated or placed in enclosures (containers) to minimize ambient noise levels	1 Lot				
ESHS 2027	Working safety for conveyor belts (Overhead passing of the electricity power lines on Conveyor belts for Grain Bulk Handlers)					
	a. Provision of safety guard net below the 132-kV line.	1 Lot				
ESHS 2028	Safety concern of hanging conductors (Hanging of the overhead conductors)					
	a. Introduction of the safeguard net below the conductors to enhance the safety where necessary	1 Lot				
ESHS 2029	Safety of erected monopole towers:(Risk of motorized trucks knocking the monopoles along the road reserves)					
	a. Construction of concrete barriers around the monopole towers	1 Lot				
ESHS 2030	Increase of Motorized vehicles/machines Congestion of traffic					
	a. Use of traffic controlling marshals	1 Lot				
	b. Introduction of traffic signs in liaison with traffic police	1 Lot				
ESHS 2031	AP12 -AP13 (Use of cranes and other motorized equipment along World Food Programme (WFP))					
	a. Ensure that all generators and heavy-duty equipment are insulated or placed in enclosures (containers) to minimize ambient noise levels.	1 Lot				
ESHS 2032	AP13-AP17:Increase of Motorized vehicles/machines- Congestion of traffic					
	a. Use of traffic controlling marshals	1 Lot				
	b. Introduction of traffic signs	1 Lot				

ESHS 2033	<i>Use of cranes and other motorized equipment</i>	1 Lot				
	a. Ensure that all generators and heavy-duty equipment are insulated or placed in enclosures (containers) to minimize ambient noise levels.					
ESHS 2034	<i>Safety of erected monopole towers (Risk of motorized trucks knocking the monopoles along the road reserves)</i>	1 Lot				
	a. Construction of concrete barriers around the monopole towers					
ESHS 2035	<i>AP18-AP19-Safety concern of hanging conductors (Hanging of the overhead conductors)</i>	1 Lot				
	a. Introduction of the safeguard net below the conductors to enhance the safety where necessary					
ESHS 2036	<i>Safety of erected monopole towers:(Risk of motorized trucks knocking the monopoles along the road reserves)</i>	1 Lot				
	a. Construction of concrete barriers around the monopole towers					
ESHS 2037	<i>Use of cranes and other motorized equipment</i>	1 Lot				
	a. Ensure that all generators and heavy-duty equipment are insulated or placed in enclosures (containers) to minimize ambient noise levels					
ESHS 2038	<i>A19-A24- Safety concern of hanging conductors: (Hanging of the overhead conductors)</i>	1 Lot				
	a. Introduction of the safeguard net below the conductors to enhance the safety where necessary					
ESHS 2039	<i>Safety of erected monopole towers:(Risk of motorized trucks knocking the monopoles along the road reserves)</i>	1 Lot				
	a. Construction of concrete barriers around the monopole towers					
ESHS 2040	<i>A24-A26 - Safety concern of hanging conductors: (Hanging of the overhead conductors)</i>	1 Lot				
	a. Introduction of the safeguard net below the conductors to enhance the safety where necessary					
ESHS 2041	<i>Safety of erected monopole towers(Risk of motorized trucks knocking the monopoles along the road reserves)</i>	1 Lot				
	a. Construction of concrete barriers around the monopole towers					
ESHS 2042	<i>A26 – Terminal Point: Demolition wastes (Wastes generated from demolition of staff houses)</i>	1 Lot				
	a. Dispose waste more responsibly by contracting a registered NEMA waste handler who will dispose the wastes at designated sites or landfills only					
ESHS 2043	<i>Environmental and social monitoring of noise</i>	1 Lot				
	a. Measure the Noise Level within the Project area and at distances of 30 from the transmission line					

TOTAL FOR BILL ESHS		
<p>NB: ESHS costs will form part of the evaluated bid cost as shown in Table 5</p> <p>ESHS costs are deemed to cover operations on all sites (as defined in clause 1.3 of ESHS specifications)</p> <p>Interim payment certificates shall include the portion of each ESHS cost amounting to the percentage of the actual progress achieved in executing the ESHS measures in compliance with the ESHS Specifications and approved by the Engineer.</p>		

Schedule No. 5. Grand Summary

Item	Description	Total Price	
		Foreign	Local
1	Total Schedule No. 1. Plant, and Mandatory Spare Parts Supplied from Abroad		
2	Total Schedule No. 2. Plant, and Mandatory Spare Parts Supplied from Within the Employer's Country		
3	Total Schedule No. 3. Design Services		
4a	Total Schedule No. 4a. Installation and Other Services		
4b	Total Schedule No. 4b. Factory Acceptance Test and Training		
4c	Total Schedule No. 4c. Environmental, Social, Health and Safety (ESHS)		
Total (to bid Form)			
Name of Bidder			
Signature of Bidder			