## ENVIRONMENT AND SOCIAL MANAGEMENT AND MONITORING PLAN

## JALDESA WATER SUPPLY SCHEME, SAGANTE WARD, MARSABIT CENTRAL SUBCOUNTY, MARSABIT COUNTY

E & S impacts and their Sources	Proposed Mitigation Measure	Monitoring and Measurement	Responsible Entity	Supervising Agency
<b>Preconstruction Phase</b>				
Land acquisition  Loss of pasture land Fencing of land restrict free movement of animals and people.  Grievances related to land take/transfer	<ul> <li>The project alignment must avoid private land as the project component include outright land acquisition</li> <li>Align water pipelines along public roads and spaces to avoid any physical and/or economic displacement as much as possible, or infringement on the land rights holders</li> </ul>	Approved project design that is not affecting private land owners	Engineering consultant E&S Specialists	WSTF MoWSI
The proposed Pipelines, solar farm, storage tank, water kiosks and livestock troughs for Jaldesa Water Supply Scheme will require approximately 1.73 acres. The land is expected to be transferred from community to public ownership.	• Complete the process of land transfer from community to public before the operation of the project	Valid allotment letters/title deeds for the scheme	MARWASCO County Government of Marsabit	WSTF National Land Commission
	Hold community consultations to discuss the final design of the scheme, the associated impacts and project implementation timelines before construction	Minutes of disclosure meeting, Agenda and attendance register	MARWASCO County Government of Marsabit	WSTF NEMA
	Follow the land take procedures outlined in the project ESMF	Compliance report	Consultant	WSTF MoWSI National Land Commission
<b>Construction Phase</b>				

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Potential soil Erosion Site Excavation, Earthworks for Construction Works:	Develop and implement soil erosion control measures	Number of soil erosion control measures in the program of works, amount of resources set for soil erosion control	Contractor Supervision Consultant	NEMA
Clearing vegetation for borehole infrastructure, water kiosks, pipelines, and livestock water troughs,  Excavation of trenches for	Minimize and restrict vegetation removal to the project footprint.	Project design that considers areas with minimal vegetation, Amount of vegetated area spared by the project	Supervision Consultant	
foundations and trenches,  Storage of excavated spoilt soil and construction materials,	Expedite back-filling and compaction of excavated soil.	Number trenches that are backfilled and compacted	Contractor	
Uncontrolled surface run-off from construction site  Spillage of water during borehole testing,	Use existing access tracks to minimize the need for new tracks.	Number of enforcement measures to ensure use of the existing routes during site access	Contractor	
Soil and subsurface water pollution  Spills of the fuel and hazardous chemicals stored at the site	<ul> <li>Develop and implement soil pollution prevention measures to include storage of chemicals, procedure for fuelling at the site and</li> </ul>	Availability of soil pollution measures in the program of works	Contractor/ Supervision Consultant	WSTF NEMA
Fugitive spillage of fuel and used oil from equipment  Poor management of	Ensure the waste oil, fuel, lubricants and other chemicals stores have an impervious surface	Number or availability of fuel and chemical stores with impervious surface	Contractor/ Supervision Consultant	WSTF
construction and sanitation waste	<ul> <li>Training workers on handling of the hazardous materials/wastes; provide appropriate tools/equipment for transfer of the hazardous materials</li> </ul>	Training records and plans, attendance lists, number of workers trained	Contractor/ Supervision Consultant	NEMA
	Regular maintenance of machinery to control leaks.	Program of equipment maintenance	Contractor/ Supervision Consultant	WSTF

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	Engage NEMA registered waste handler	Valid waste handler license and filled waste tracking sheets	Contractor/ Supervision Consultant	NEMA
	Maintain spill response kits at the site.	Availability of a complete spill kit at the site	Contractor/ Supervision Consultant	WSTF
	Use of drip trays when carrying out minor servicing of equipment and fueling at the site	Availability of operational drip trays at the equipment servicing area	Contractor/ Supervision Consultant	NEMA
Air pollution through generation of excess dust	Sprinkle water on dusty surfaces to suppress  dust at the site and when weaking poor dust	Evidence of watered working areas where applicable	Contractor/	WSTF
Nuisance to neighbors	dust at the site and when working near dust sensitive receptors	areas where applicable		NEMA
Impaired visibility; Construction activities	Equip workers who are directly in the location where dust is dispersed with dust masks.	Number of workers with appropriate dust masks	Contractor	
including Clearing vegetation,		Air Quality Training included	Contractor	
grading, and excavation works, use of cement, movement of vehicles and equipment.		in the EHS staff induction Training records	Supervision Consultant	
Wind blowing on bare surfaces and potential dust storms				
<b>Demolition works</b> : Removal of old, worn-out infrastructure or equipment				
Exhaust emissions from vehicles, including particulate matter (PM), carbon monoxide (CO), and nitrogen oxides (NOx), can contribute to air quality deterioration and pose health risks	Scheduled maintenance of the machinery to reduce emissions including carbon monoxide, oxides of nitrogen.	Evidence of site-specific equipment planned maintenance schedule	Contractor/ Supervision Consultant	WSTF NEMA

E & S impacts and their Sources	Proposed Mitigation Measure	Monitoring and Measurement	Responsible Entity	Supervising Agency
Noise and vibrations  Material transportation: Movement of trucks and	All Construction near noise sensitive receptors like schools, hospitals and residential houses should implement measure to minimise production of extra noise.	Noise control measures included in the program of works	Contractor/ Supervision Consultant	NEMA County Department of Environment
loaders.  Excavation and construction: Digging and concrete works.  Use of powered equipment.	<ul> <li>All equipment should be maintained in good mechanical order and fitted with the appropriate silencers, mufflers, or acoustic covers where applicable. Lubricating and regular repair of equipment and machinery.</li> </ul>	Relevant planned maintenance scheduled of the equipment available at the site  Noise rating of the equipment	Contractor/ Supervision Consultant	Environment
Borehole testing: Noise from pump flow tests.	<ul> <li>Pneumatic drills and other noisy appliances should not be used after normal working hours.</li> </ul>	Evidence of no night working policy at the site	Contractor/ Supervision Consultant	
	<ul> <li>Workers exposed to occupational noise should be given noise protection equipment such as earmuffs and be taught how to use them and supervised to ensure such safety procedures are being adhered to.</li> </ul>	Number of workers working in noisy environment with appropriate PPE for noise	Contractor/ Supervision Consultant	
	<ul> <li>The public should be informed that short periods of noise may be inevitable but prior warning of when noisy activities are to take place and the days and times noise of when they could be expected should be widely publicized before the activity takes place.</li> </ul>	Noise warning signs where applicable, evidence of noise agenda in the community consultation meeting	Contractor Supervision Consultant	
Loss and disturbance of the vegetation Introduction of alien invasive species Site clearing, Excavation works,	Mature trees and vegetation outside project site will not be cleared.	Evidence of Measures implemented to avoid clearing mature trees and vegetation outside project site	Contractor/ Supervision Consultant	Kenya Forest Service/ NEMA/ County Department of Environment
and pipeline laying disrupt habitats.	No use of herbicides/ pesticides for vegetation clearing	Evidence of proper methods applied to clear vegetation		
Movement of vehicles on the vegetated areas	Re-vegetation of disturbed areas with native plant species.	No of tree seedling planted		
	Control of invasive alien plant species through monitoring and physical/manual removal of invasive species as they appear as well as	Availability and implementation of measures		

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	routine cleaning of newly deployed machines to the sites	to identify and control alien species		
Disruption of existing minimal fauna in the project area through excavation, vegetation clearing, and pipeline laying activities	Avoid clearing mature trees that are important habitats for birds and other small animals	Evidence of Measures implemented to avoid clearing mature trees and vegetation outside project site	Contractor/ Supervision Consultant	Kenya Forest Service/ Kenya Wildlife Service
	Create awareness among project staff (esp. plant operators) and local community on animal welfare and against animal harassment.	No of workers sensitized on protection of animals	Contractor	Kenya Wildlife Service
	Protection of the encountered wild animals	Availability, Awareness and implementation of measures to protect stray animals	Contractor	Kenya Wildlife Service
Traffic incidents and accidents  Increased vehicles: More	<ul> <li>Engage the road authority where the project will undertake road crossing and use of road reserve.</li> <li>Excavation of trenches should be carried in</li> </ul>	Evidence of consultation with relevant road departments and agencies where applicable	Contractor/ Supervision Consultant	Kenya Highways Authority (KeNHA)
construction and supply vehicles on local roads.	consultation with the concerned road authorities.			Kenya Rural Roads
Narrow roads: Existing roads unable to accommodate increased traffic.				authority (KERRA)
Construction activities: Blockage or diversion of roads				County Government of Marsabit
during works.  Heavy equipment: Slow-moving machinery disrupting traffic	Erect warning signs of on-going works when pipeline crosses the road.	Availability of appropriate safety signs at the road crossing point	Contractor	County Government of Marsabit
flow.	Adequate care/caution is taken so as not to cause any hindrance to the movement of traffic.	Traffic (vehicle, human and livestock) control measures where applicable	Contractor	County Government of Marsabit

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	Alternatives access ways should be communicated to the community where road cutting is taking place	Number and condition of the provided alternative routes	Contractor	County Government of Marsabit
Short-term disruption of community activities  Excavations along home accesses, business access and roads.	<ul> <li>Implement the stakeholder engagement plan to ensure timely project information sharing with the community and stakeholders.</li> <li>Alternatives access ways should be communicated to the community.</li> </ul>	Community consultation plan,  Number of consultation meetings	Contractor/ Supervision consultant MARWASCO	MARWASCO
	Hoarding and installation of safety signs on road crossings.	Number of appropriate road signs installed	Contractor/ Supervision consultant MARWASCO	
	<ul> <li>Provide diversions or temporary passages where roads are closed due to works.</li> <li>Provide temporary accesses to business and homes on excavated sections.</li> </ul>	Number and condition of the provided alternative routes	Contractor/ Supervision consultant MARWASCO	
Labour conflicts and forced labour  Recruitment and pay conflicts, working conditions and forced	Implement site Labor Management Procedures (LMP) for the project based on the project LMP	Availability of the site specific LMPs	Contractor supervision consultant	WSTF
labour	Contractors to be trained on the LMP for the project before site mobilization	Training records and attendance list	supervision consultant	WSTF
	Developing and implementing criteria (skills and qualifications) for all positions due for recruitment.	Availability of recruitment criteria  Number of workers engaged through the criteria	Contractor	WSTF
	All the project workers to undergo induction and to be engaged formally via contract with start date, end date, job description, wage, disciplinary measures among others	Formal contracts the workers Number of workers with contract	Contractor	WSTF

E & S impacts and their Sources	Proposed Mitigation Measure	Monitoring and Measurement	Responsible Entity	Supervising Agency
	Documenting relevant worker information including terms of employment.	Well documented worker information	Contractor	1.90.00
	Ensure equal opportunity and fair treatment during recruitment.	Formal commitment by the consultant to offer equal opportunities	Contractor	
		Number of workers recruited through transparent process		
	Protection of workers' legal right to form unions or other workers' organizations of their own choosing and to bargain collectively with their employers.	Human Resource Policy with workers' rights	Contractor	
	No employment of underage persons (under 18 years).	ID for all the employed persons  Evidence of no child engaged	Contractor	
	Implement the workers grievance mechanism for all direct workers and contracted workers.	Availability of GRM that is relevant to Jaldesa site	Contractor	
	Compliance to labour relations practices as provided for by Kenya legislations and International Labour Organisation (ILO)	Legal register for the lot	Contractor	
	Advertising at the local villages and markets for any position that needs to be filled; and	Number of job adverts placed in the chief's office or common public area	Contractor	
	Sub-contractor requirement to submit a past forced labor performance declaration, and a declaration of ongoing Bidder commitment to prevent, monitor and report on any forced labor.	Evidence of submitted forced labor performance declaration	Contractor	
	Include in contracts with subcontractors/ suppliers/ manufacturers of materials (pipes,	Formal commitment to prevent forced labour	Contractor	

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	fittings, solar panels and equipment) obligations to prevent Forced Labor among the staff, employees, workers and any other person employed or engaged by the Subcontractor/supplier/manufacturer.			
Potential tension/conflicts between local communities and incoming workers over jobs, resources, or land.	Prioritize local labour force.	No of workers from Jaldesa area employed in the project	Contractor/Supervision consultant MARWASCO	WSTF
Influx of workers leading to the spread of infectious diseases	Regular community engagements.	No of community engagements	Contractor/ MARWASCO	WSTF
Increased competition for local resources: food, water, and other community resources.  Social tensions:	Regular community and project workers training, awareness and sensitization on HIV/AIDS.	Training Plan  Number of the workers trained.	Contractor/ MARWASCO	WSTF
Unresolved workers grievances Hiring of workers outside the project area	Implement clear and culturally sensitive GM and SEAH/GBV procedures at the project site.	Clear and culturally sensitive GM and SEAH/GBV procedures at the project site.	Contractor/ MARWASCO	WSTF
Increased demand on infrastructure: Strain on local transport, sanitation, and healthcare facilities.	Provide adequate and appropriate welfare conveniences for the staff-including washrooms, rest area and changing room	Number of sanitation conveniences and changing rooms for both genders  Appropriate rest area	Contractor/ MARWASCO	WSTF
Cultural disruption: Cultural differences between workers and the local community	Ensuring that children and minors are not employed directly or indirectly on the project.	Policy against child labour, Identification Numbers for all the employees	Contractor/ MARWASCO	WSTF
Insecurity Existing Intra and inter community conflict	<ul> <li>Prepare and implement a site Security Management Plan (SMP) in accordance with project Security Management Plan and SOPS.</li> </ul>	Availability of approved site specific SMP.	Contractor/ MARWASCO	WSTF County Government of Marsabit

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Unresolved project, land and intertribal conflicts	<ul> <li>The site specific SMP must be cleared by the E&amp;S Team at the CPU before site mobilization</li> <li>Have sufficient emergency response plan before mobilizing to the field</li> </ul>		Contractor/ MARWASCO	WSTF
	Use the county and community as entry points before mobilizing to the field	Evidence of consultation with CC	Contractor/ MARWASCO	WSTF
Occupational Safety and Health (OSH) hazards  Physical hazards: slips, trips, falls, and injuries from	Develop and implement a site-specific Health and Safety Action Plan based on the project Health and Safety Action Plan	Availability and implementation progress of the HSAP	Contractor/ Supervision consultant	DOSHS
machinery or tools.  Exposure to intermittent and	Register the construction site with DOSHS	Valid construction workplace certificate from DOSHS	Contractor	
occupational noise, dust, heat and chemicals, exposure to harsh climatic conditions, manual handling hazards,	Undertake an appropriate Health and safety risk assessment and submit the report to DOSHS Marsabit	DOSHS signed copy of RA report	Contractor	
electrical hazards: Risks from installing solar panels and working with electrical systems,	Induction of workers on health and safety before commencing works	Number of workers inducted	Contractor	
fall from height heights, falling objects hazards during steel tank erection	Engage a qualified and competent health and safety officer for the lot	Qualification of the Health and safety officer at the site	Contractor	
Poor sanitary facilities may result in waterborne or communicable diseases.	Ensure there are trained first aider and fire Marshalls	Number of trained first aider and fire marshals	Contractor	
Traffic incidents and accidents at the site	Conduct daily toolbox talks	Records of Tool Box Talks	Contractor	
	Provide appropriate personal protective equipment (PPE) to workers and training on appropriate use. (Reflective jackets, helmets, face masks, ear plugs gloves, safety boots, etc.)	No of workers with appropriate PPEs	Contractor	

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	There should be adequate provision of the requisite sanitation facilities for human waste disposal	Clean and convenient sanitation facilities	Contractor	
	Recording of all injuries that occur on site in the incident register, corrective actions for their prevention are instigated as Appropriate	Availability of incident register at the site  Well filled incidents	Contractor	
	The contractor should have a WIBA insurance policy to cushion self and workers against loss of income or an accident on site	Workers with WIBA	Contractor	
	Ensure that all site personnel are provided with an adequate supply of safe drinking water, which should be at accessible points at all times.	Number of water points for the workers	Contractor	
	Provide conveniently accessible, clean, orderly, adequate and suitable washing facilities within the site.	Clean and convenient sanitation facilities	Contractor	
Community Health and Safety Traffic accidents and incidents. Noise Nuisance from Construction activities	Ensure the safety of residents by providing safety signs at strategic places around the access roads.	No of road appropriate safety signs provided	Contractor/ Supervision consultant E & S Specialists MARWASCO	
Dust and air pollution: Excavation and material handling can affect air quality, leading to respiratory issues.	All trenches must be barricade using the appropriate safety tape	Trenches with barricading tape		
Spread of diseases: Interaction between workers and the	Cordoning off working sites to protect the public or unauthorized persons	Area cordoned off		

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community may increase the risk of communicable diseases.  Open trenches, unprotected	Use of signs and warnings on sites with high risks such as the elevated tank site	Number of appropriate safety signs installed at the construction site		
construction area, and unsecured equipment pose safety risks to nearby residents and livestock	Reduce unnecessary speeding to control for accidents from the movement of pedestrians or livestock in the area.	Speed limit at the site and within the project area		
Structural hazards: Poorly constructed facilities, such as water kiosks or tanks, may lead	The elevated water tank to be installed a safe distance from human activities or property	Evidence of the consideration of community settlement in tank design		
to accidents post-construction.  Disruption of services: Temporary interruptions in water supply or access due to pipeline works.	The design and construction of the elevated steel tank to consider the changes in wind force in the area.	Approved design and construction methods		
Sexual exploitation and harassment (SEA-H)  Potential SEAH risk among the workers at the project site  Workers may take advantage of power imbalances to exploit local women or vulnerable	Engage competent GBV / social safeguard officer	<ul> <li>Qualification of the GBV / social safeguard officer</li> <li>Number of incidences (both reported and unreported), their investigation, solution and closure according to the SEAH Response Plan</li> </ul>	Consultant  Contractor/Supervision Consultant  Local Community Leaders	MoWSI WSTF
individuals in the project area  Lack of reporting mechanisms:  Without proper channels,			MARWASCO SEAH Expert MOWSI	
victims of SEAH or GBV may not report incidents due to fear of retaliation or lack of support.	Conduct SEA-H sensitization to the workers during induction	No of workers sensitized		MoWSI WSTF
	Background checks for the workers, subcontractors and suppliers.	Well documented procedures for background checks	_	MoWSI WSTF

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	Conduct SEA-H sensitization to the community in the project area	No of community sensitization meeting		MoWSI WSTF
	Ensure all the workers signs the CoC developed for the project and sensitization of staff on responsibilities related to the COC and consequences of non-compliance; project-level IEC materials;	Number of the signed CoC		MoWSI WSTF
	Implement the project SEAH action plan with an Accountability and Response Framework as part of the C-ESMP.	Level of the SEAH plan implementation at the site		MoWSI WSTF
	Response to SEA-H: including survivor- cantered coordinated multi-sectoral referral and assistance to complainants according to standard operating procedures	Effective SEAH response plan		MoWSI WSTF
Infringement of Children rights  Engagement of children in	Domesticate the Labor Management Procedures (LMP) as part of the CESMP;	Level of the LMP implementation at the site	Contractor, Consultant WSTF	County Children's Department
construction works  Sexual abuse of children in the project area by the project workers  Expecing Days and elsebel to	Develop and implement a Children Protection Strategy that will ensures minors are protected against negative impacts associated by the Project.	Availability and implementation status of Children Protection Strategy for the Lot	Contractor, Consultant WSTF	
Exposing Drug and alcohol to children  Workers working with the school	<ul> <li>Training and signing of CoC by the project team</li> <li>sign, committing themselves towards protecting children, which clearly defines what is and is not acceptable behaviour;</li> </ul>	Number of workers trained on and signed CoC	Contractor/ Supervision consultant	
	Children under the age of 18 years shall not be hired on site as provided by Child Rights Act (Amendment Bill) 2014.	No of the workers with national identification card numbers at the site	Contractor/ Supervision consultant	

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Infringement on Vulnerable and Marginal Groups (VMGs) rights  Exclusion of vulnerable groups	Schedule meetings at convenient times and locations to accommodate women, persons with disabilities, and other vulnerable groups.	Plan of public consultation that is appropriate for community	Contractor/ Supervision consultant	
from consultations and inclusion in designs  Failure to implement the Stakeholder Engagement Plan (SEP)	Focused engagements with the vulnerable groups. This will include dedicated consultations with the PWDs to understand their needs.	Number of VMGs identified and number of consultations carried out	Contractor/ Supervision consultant	
	Apply universal design in infrastructure to ensure accessibility for persons with disabilities to the water points.	Design that is user friendly to PWD	Supervision consultant	
	Ensure that consultations are culturally appropriate, accessible, including the use of sign language interpreters, braille, and vernacular languages.	Site specific GRM Involvement of site GRC	Supervision consultant	
Water losses through Water system leaks and loss of pressure  Improper installation or maintenance, inadequate corrosion protection, stress from traffic and vibrations and overloading	<ul> <li>Develop and implement a predictive scheme maintenance plan including sectional meters and pressure management systems, Regular pipeline surveillance and Burst reporting and response mechanism</li> <li>Prompt repair of detected leaks, and using high-quality pipes with appropriate materials.</li> </ul>	Availability of predictive scheme maintenance plan	MARWASCO Contractor/ Supervision consultant	
Depletion of groundwater resources due to over	Ensure there is water abstraction permit all the time	Valid water abstraction permit	MARWASCO	WRA
abstraction  Over abstraction of ground water resources due to	Install the WRA approved telemetric meter and ensure monitoring of the yield.	Presence and/or number of working and calibrated telemetric meters	MARWASCO	WRA
Excessive pumping	• Ensure quarterly payment of water use fee to WRA	Evidence of payment	MARWASCO	WRA

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Failure to comply with WRA	Promote efficiency in water use among the beneficiary communities through consultation	Number of sensitization meetings	MARWASCO	County Government of Marsabit
	Conduct regular borehole discharge and water quality analysis.	Water quality analysis reports	MARWASCO	
Contamination of water supply  Exposure of water to pathogens	The animal trough should be located at least 100m away from the boreholes.	Approved design and construction with the animal trough located	Contractor MARWASCO	
at the storage facilities and from external sources Contamination of water sources by the livestock waste	<ul> <li>Fencing and protection of the borehole from livestock and wild animals.</li> <li>All the water tank areas should be fenced and have controlled entry</li> </ul>	Well fenced and protected borehole area	Contractor MARWASCO	
	The borehole area should be manned and should have controlled access	Availability of the security personnel at the borehole area	Contractor MARWASCO	
	Community health and safety awareness meetings	No of meeting	Contractor MARWASCO	
Outbreak and spreading of livestock diseases  Presence of large herds of	Regular disease surveillance by the veterinary department and community	No of disease surveillances undertaken	County Department of Livestock MARWASCO	
Animal movement: livestock moving between regions, spreading diseases and pests.	Sensitization of the community on disease spread, monitoring and control	No of meetings	County Department of Livestock MARWASCO	
Lack of vaccination: Insufficient vaccination programs leaving animals vulnerable.	Livestock disease management plan be put in place by the veterinary department to ensure disease incidences are promptly responded to and addressed	Livestock Disease management plan in place	MARWASCO	

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Vandalism of the water supply equipment	Sturdy fences and gates to limit access to vulnerable areas;	Well maintained fence	MARWASCO	
Damages and recovery of valuable materials from the project infrastructure.	Proper lighting in public spaces to deter activity in darkness;	No of installed security lights where necessary	MARWASCO	
	Ensure consistent follow-up with reporting and addressing vandalism to maintain deterrence;	Evidence of insecurity response measures at the scheme	MARWASCO	
	Educational programs in schools to teach responsible behavior;	Number of the educational programs implemented	MARWASCO	
	Public awareness campaigns about the harms of vandalism and supporting community policing.	Number of public awareness meetings	MARWASCO	
Water-related conflict  Resource scarcity especially during the dry periods: Limited availability leading to tensions between users.  Environmental changes: Climate change or natural	<ul> <li>Regular stakeholder engagements to facilitate open dialogue with community leaders and residents to address concerns and incorporate feedback into project design.</li> <li>Community awareness campaigns through training communities about project safety protocols, emergency procedures, and reporting mechanisms;</li> </ul>	Number of public awareness meetings	MARWASCO	WSTF County Government of Marsabit
disasters exacerbating resource – shortages.	Develop and operationalize grievance redress mechanism;	Availability of site specific GRM, Grievances recorded, addressed and closed	MARWASCO	WSTF County Government of Marsabit
	Promoting equitable access to water resources and services;	Evidence of involvement of the communities in	MARWASCO	WSTF County Government of Marsabit

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	Establishing systems to identify potential conflict triggers and respond proactively;	Effective GRM and SMP available at the site	MARWASCO	WSTF County Government of Marsabit
	Promoting responsible reporting and raising awareness of conflict issue; and	Number of public awareness meetings	MARWASCO	WSTF County Government of Marsabit
	Adopting the inter-community conflict resolution mechanisms; and			WSTF County Government of Marsabit

Monitoring & Measurement	Frequency
GRC reports	Quarterly
Public forums	
Reports on erosion incidents.	Monthly
Volume of disposed fill (m³/month).	
Regular status updates.	
Evidence of erosion control structures in place	
Hazardous Waste Chain of Custody Forms.	Monthly
Incident response procedures.	
Water quality monitoring reports.	
Incident reports.	
Evidence of secondary containment structures; evidence of training on handling of hazardous materials	
Air Quality Monitoring Report	Daily inspections
Reports on induction of drivers on site operation requirements	Monthly reports on monitoring
Results from routine community engagement on dust concerns	status
Air Quality Monitoring Report	Annual audits
Noise Monitoring Reports	Monthly
Reports on induction of drivers on speed limits	
Results from routine community engagement on noise and vibrations concerns	
Tree planting Plan	Quarterly
Report of Tree Planting Exercise	
Reports on programme to implement recommendations	Monthly

Monitoring & Measurement	Frequency
Traffic Management Plan	Monthly
Results from routine community engagement on traffic concerns	
Number of community meetings	Monthly
Grievance related to access and livelihoods	
Traffic management plan	
Number of temporary accesses provided	
Well documented LMP at the site	Monthly
Training records with evidence of workers induction in labour and working conditions	
Well documented copies of Employment contracts with JD and terms of contract	
Formal human resource policy with commitment to offering equal employment opportunities to all gender	
Number of women employed at the site	
Site specific workers' grievance redress mechanism	
Job advertisements posted in both print and electronic media	
Formal and documented commitment against forced labour	
Number of workers at the site from the project area	Prior to Commencement of
Number of public consultation meeting with influx agenda	Construction works
Formal GRM that is applicable to the site	Monthly Reporting on status
Availability of clean and well-maintained sanitation facilities for both genders	
OSH training records and plans	Monthly reporting on status
No. of workers trained,	Periodic OSH audits and
Available incident register report,	inspections
Workers GRM	

Monitoring & Measurement	Frequency
Availability of safety procedures	
Training reports/tool box talks	
Workers wearing appropriate PPE	
Availability of adequate first aid facilities and trained first aiders on sites	
Records of Inspections and periodic OSH audits.	
Existence and validity of the WIBA policy	
Availability of appropriate road signs	Daily Regular Checks
Barricading tapes and appropriate access restriction measures	
GBV training records for the consultant GBV officer	Daily Regular Check
GBV sensitization records and plans for workers and community	Quarterly Reporting on Status
Signed CoCs for all the workers and subcontractors	
Site specific SEA-H prevention and control plan with clear reporting procedures	
Log frame to register SEA cases at the site with GBV cases reported, %/resolved/ referred	
Well documented SOP for GBV/SEAH at the site	
Updated County specific referral pathway	
Labour Management Procedures	Monthly
Signed CoCs	
No underage project workers	
Engagement with the sub county children department	
HIV/AIDS training plan,	
Records of VCT training.	
No. of workers trained and sensitized	
Presence of IEC materials.	

Monitoring & Measurement	Frequency
Presence of condom dispensers	
Evidence that the project was built as designed	Routine checks
Water Scheme Operation and maintenance programs	Monthly reporting
Meetings held with the community and relevant stakeholders	Transmit, reper mag
Monthly records on non-revenue water	
Water Scheme Operation and maintenance programs	Quarterly
Valid water abstraction permit	
Evidence of Telemetric meter and quarterly report.	
Community Burst reporting protocols	
No. of Complaint	Monthly
Scheme specific GRM	
Training records	
Community water users plan	
Carry out analysis of physico- chemical and bacteriological parameters for water quality.	Routine checks
	Monthly reporting
Number of disease surveillance conducted	Routine Checks especially during
No of Sensitization meetings held	drought periods when there is influx of livestock at watering
A livestock disease management plan	points
Number of disease surveillance conducted	Routine checks
No of Sensitization meetings held	
A livestock disease management plan	
Number of community consultation meetings	Monthly reporting on status

Monitoring & Measurement	Frequency
Fences with gates	
Security lighting	
Awareness creation activities	
Number of community consultation meetings	Regular Checks
Effective GRM	
Community awareness programmes	
Updated conflict management plan	
Number of disease surveillance conducted	Routine checks
No of Sensitization meetings held	
A livestock disease management plan	
Number of community consultation meetings	Monthly reporting on status
Fences with gates	
Security lighting	
Awareness creation activities	
Number of community consultation meetings	Regular Checks
Effective GRM	
Community awareness programmes	
Updated conflict management plan	