

BASELINE RISK ASSESSMENT

Project Name		FOR THE SUPPLY AND INSTALLATION OF MECHANICAL ADAPTIONS AND GEARBOXES WITH NINETY DEGREE (90°) OUTPUT ON VALVES ON PIPELINES													
Project No.		TPL/2025/07/0006/100991/RFP													
Risk Ref.	Activity	Hazard	Risk	Safety	Health	Env	Pre Risk Rating	Controls/ Mitigation	Post Risk Rating	Tasks/Actions Items	Responsible Person	Start Date	End Date	Completi	Status Update
1	Travel to site via off-road terrain	Muddy or waterlogged roads; vehicle entrapment	Delays, vehicle damage, injury	x			Low	Use 4x4 vehicles; pre-trip inspection; monitor weather; plan alternate access routes	Low						
2	Confined space entry for measurements and installations	Toxic gases, oxygen deficiency, poor visibility, dangerous creatures, water inside chambers	Suffocation, injury, fatality	x	x		Low	Gas testing; ventilation; trained standby; confined space permit; PPE, TPL to pump water out; call SPCA for removal of dangerous creatures, removal of the chamber.	Low						
3	Manual handling of gearbox/equipment/ chamber lid	Lifting heavy loads	Musculoskeletal injury, failure of rigging equipment	x			Low	Use crane for lifting; rigging crew, follow rigging procedure; training, PPE	Low						
4	Core drilling of chamber lids	Flying debris, dust, tool failure, sparks	Eye injuries, hand injuries, dust inhalation,	x	x	x	Low	Use correct PPE as per the scope of work (glasses/gloves, mask); secure area; trained operator, Approved contractor compliance file	Low						
5	Installation of gearboxes and adaptors	Equipment drop/failure	Crush injuries, damage to equipment	x			High	Crane support; taglines; PPE, work permit,	Low						
6	Use of intrinsically safe tools in hazardous area	Spark or explosion in flammable zone	Fire, explosion, injuries	x	x	x	High	Use certified tools; confirm hazardous zones; train staff, permit to work	Low						
7	Fire/rescue standby support	Inadequate rescue response in emergency	Delayed evacuation or injury escalation	x	x		High	Trained standby rescue team with SAQA certifications; full readiness on-site	Low						
8	Unauthorized access to private property	Trespassing	Legal consequences, conflict	x			High	Escort by TPL personnel and contracted security; permission in place; contractor briefed	Low						
9	Working in rainy conditions	Slippery surfaces, reduced visibility	Falls, equipment mishandling	x			High	Monitor weather; pause work during storms; use slip-resistant footwear	Low						
10	Alcohol or substance presence	Impaired decision-making	Accidents, injuries	x			High	Random alcohol testing; zero tolerance enforcement (TPL to facilitate)	Low						

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11	Community unrest / Business Forums	Work stoppage, intimidation	Injury, delays	x			Medium	Stakeholder engagement, communication plan, SAPS support, TPL security, working in remote areas	Low						
12	General on-site work	Trips, slips, hand tool misuse	Minor injuries	x			Medium	Tool checks, housekeeping, safety briefings, toolbox talks	Low						
13	Use of machinery/power tools.	Electrical shock, moving parts	Shock, lacerations, injuries, fire, explosion	x	x		Medium	Pre-use checks, lockout/tagout, operator training, permit to work-risk assessment	Low						
14	House keeping	Poor house keeping, general waste,	littering, poor relationship with landlord/farmers			x	Low	Toolbox talks, safety briefing, use of plastic bags for general waste, inspection by TPL personnel, permit to work	Low						