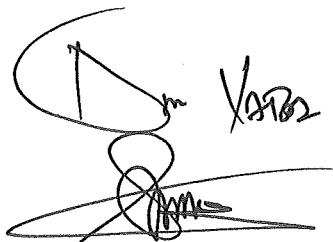




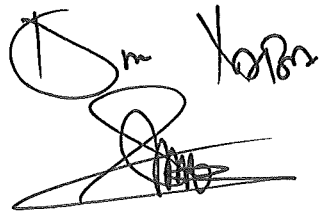
VEHICLE SPECS.

Vehicle Job Description:	Required to carrying Goods, equipment and passengers up to a GVM of 7000 kg on all types of road surfaces with up to 80% off road usage		
T4A Dual wheel	Annexure A3	Tendering Service Provider to complete	Eskom technical team to complete
Vehicle Type Required	Light Truck 4X4 >4500<=70	Comply	Provide reason for Comply or n Eskom technical evaluation comments
AIR CONDITIONER (Factory Warranty)	To be Standard		
RADIO/CD PRICE FITTED (IF NOT STD)	To be Standard		
Seat Belts- SABS APPROVED	To be Standard		
DRIVER AND PASSENGER SEATBELT REMINDERS	To be Standard		
ABS BRAKES	To be Standard		
POWER STEERING	To be Standard		
DAY RUN LIGHTS INSTALLED	To be Standard		
TWO EMERGENCY TRIANGLES	To be Standard		
IMMOBILISER (Factory Warranty)	To be Standard		
ALARM (Factory Warranty)	To be Standard		
PTO (PRICE FITTED IF NOT STD)	To be Standard		
ENGINE PROTECTION DEVICE	To be Standard		
TRAILER BRAKE CONTROL	To be Standard		
AIR CHARGE LINE TO THE FRONT	To be Standard		
REVERSE ALARM/BEEPER	To be Standard		
FITTED TOWING/RECOVERY FACILITY ON FRONT	To be Standard		
VEHICLE CONFIGURATION	Light Truck 4X4 >4500<=7000KG GVM (Dual wheel application)		
TRACTION	4x4		
Diesel Powered (Normally aspirated or Turbo)	YES		
Power Rating - Kw	78 Kw		
Torque Rating - NM	251 Nm		
Permissible Front axle rating " Max."	2600 kg		
Permissible Rear axle rating " Max."	4300 kg		
D/T Rating "Min "	7000 kg		
Wheel base " Max."	3400 mm to 4000 mm		
Chassis to facilitate the fitting of 6Tm hydraulic jacks	YES		
Fully synchromesh Gearbox	YES		
Power assisted Steering	YES		
Seat Belts: SABS approved	YES		
Tyres (Size) 7,50R16-10 PR (up to 80% off road)	YES		
Number of gears, manual	YES		
Mud-flaps. Factory fitted	YES		
WARRANTY PERIOD- MONTHS/DISTANCE	Specify		
CARBON DIOXIDE (CO2) EMISSION- g/km	Specify		
Acceptance / Acceptance			
Name of Evaluator		Signature	


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Name of Verifier	Signature
Any proposed deviations from this specification shall be listed below with reasons for the deviation(s). In addition, evidence shall be provided that the proposed deviation will at le	

Technical Evaluation Criter	100
Fully completed questionnaire in	50
Original Equipment manufacture	20
Proof of 12 (twelve) month warra	20
Proof of after sales service and r	10


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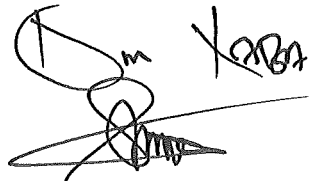
UNIT SPEC'S.

		Manufacturer:
		Make and model of Aerial
		Country of manufacture
		Comply or non-compliance
Functional specifications	For the 11 metre Non insulated aerial platform with a one single man bucket, the SWL load per bucket shall comply with the single man bucket rating (136kg) Articulated with Top boom telescopic	
Special Technical Characteristics	All items of material or details of construction which are not specified herein, or which have not been commented on but which are normally furnished as part of a mobile unit shall be furnished by the Supplier. If there is any doubt on the part of the Supplier as to what shall be furnished under this specification, it shall be the Supplier's responsibility to inform Eskom and obtain clarification in writing, prior to submitting a quotation. Failure to do so shall in no way relieve the Supplier of the obligation to furnish a mobile unit as intended under the specification. All insulated MEWP's models not previously acceptance tested will be tested on a prototype basis via the Aerial unit WG (as a once off) and a report issued after successful evaluation.	
Special safety devices	All MEWPs shall be equipped with the following:	
Stabilisation of a mobile unit	The manufacturer shall provide each unit with suitable and adequate outriggers. Such outriggers shall be capable of levelling the chassis at a slope of up to 5°. Where outriggers are used the pads shall be constructed to allow swivelling to accommodate the ground level conditions. The bearing pad shall be a minimum of 200 mm x 200 mm or diameter of 230 mm.	
3.2.2 Chassis inclination	Every MEWP shall have a device (e.g. tilt switch or spirit level) to indicate whether the inclination of the chassis is within the limits permitted by the manufacturer. This device shall be protected against damage and accidental change of its setting. This device shall be clearly visible from each outrigger control. (Ref SANS 16368 2014 pg 24)	
3.2.3 Stabilisation of buckets	This shall be ensured by either a mechanical or hydraulic system, to prevent overturning. Where a hydraulic system is used, a locking valve shall be provided. The bucket tilt angle shall not exceed 5° from horizontal, when its rated load is successively applied at its front, back, right and left edges. On overcenter MEWPs this shall be ensured by a positive mechanical levelling device. Note: Where levelling is done by means of insulating rods, only solid or foam filled tubes shall be used. Hollow tubes shall not be accepted. The minimum breaking load of the chain shall be shown on a certificate. (SANS 16368 2014 pg 36)	
Tensioning of chains	It shall be possible to re-tension chains. (SANS 16368 2014 pg 36)	
Strength junction between chain and chain terminations	The junction between the chain and the chain termination shall be able to resist at least 100% of the minimum breaking load of the chain. (SANS 16368 2014 pg 36)	
Visual examination of chains and terminations	Visual examination of chain terminations shall be possible preferably without the removal of the chains or major disassembly of structural components of the MEWP. (SANS 16368 2014 pg 36) Unintentional displacement of chain	
Unintentional displacement of chain	Means shall be provided to prevent unintentional displacement of the chain from the sprockets or pulleys, even under slack conditions. (SANS 16368 2014 pg 36)	

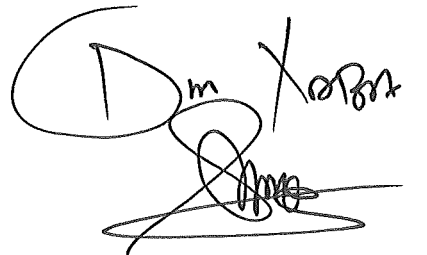
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Personnel safety attachments	An attachment point for the personnel safety strap(s) or lanyard(s) to the boom shall be provided. The point at which the anchor point is provided will be on the main boom end (on metal portion) and will limit the travel of any falling personnel. This attachment point shall be capable of withstanding the dynamic fall rating of the energy absorbing equipment linked to the Fall Arrest System and comply with SANS EN 16368 to be able to withstand a static force of 16kN if intended for one person. There will be a minimum of one attachment point per person. The attachment point should be marked with yellow paint. Should the aerial unit be an over centre type unit then the attachment point will have to be accommodated on the metal securement section of the bucket, so that there is minimal variation in the attachment distance to the secured worker as the main boom moves through it's trajectory.	
Locking pins	Any locking pins shall be secured against unintentional disengagement (e.g. spring pin) and loss (e.g. chain) (SANS 16368 2014 pg 22)	
MEWP outrigger (stabiliser) indicator	Vehicle mounted MEWPs shall be equipped with an indicator visible from the travelling controls within the cab to indicate if all parts of the outrigger, the extending structure, the access ladders and the work platform of the MEWP are in transport positions (SANS 16368 2014 pg 23)	
Controls and Control Panels	Two control panels shall be provided. The upper control panel situated at the platform (or portable radio control) and the lower control panel on the chassis or turret. The lower controls shall be readily accessible and shall provide for over-riding the upper controls. An interlocking device shall be provided to prevent the operation of the MEWP before the mobile unit is completely stabilised. In order to prevent unintentional actuation of the boom positioning controls at the platform, the use of an unlocking or enabling device shall precede the use of the control itself, and shall be maintained simultaneously during the use of controls. The device shall return to the locked or disabled position when the control is released by the operator. The double action should not be simultaneously possible from external contact e.g. inadvertently pushing into a pole. The device may be incorporated into each control (PG 13 of ANSI A92 2-2001) Where a job is required, its controls shall also be mounted on the upper control panel. All control switches/levers shall automatically return to the neutral position when they are released. The control levers/switches shall be plainly identified as to their function and shall be protected from inadvertent activation. Control devices shall be protected against activation other than that initiated by the operator, e.g. by a separate control which must be continuously activated by the operator in order for any motion to take place. This excludes radio type controls, which shall have a separate emergency stop button which can be activated between operations to prohibit unintended movements. The precision of the upper controls shall be such that the operator can approach his work area slowly and safely. Coming from a distance of 1 m, the operator shall be able to position the bucket less than 50 mm from the work area. Controls may be actuated hydraulically, by insulating rods, by using fibre optics, by a light beam or radio. Hydraulic hoses/fibre optic cables may run on the inside of the boom. Where radio controls are used a circuit diagram of the radio shall accompany the vehicle. Where more than one aerial unit is utilised in close proximity with remote control devices, there shall be a safety mechanism built in which disallows control across the different vehicles. Functionality shall be provided for to allow the simultaneous operation of the units (frequency hopping).	

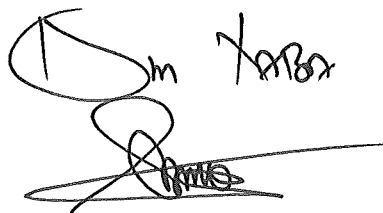

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	Emergency stop An additional control shall be provided at the platform and at the lower controls to effect an emergency stop of the powered upper control functions These controls shall be permanently marked and shall not require continuous actuation for a stop condition At the lower controls, the override control may be used as an emergency stop provided it is clearly identified as an "emergency stop"	
Control of outriggers	The hydraulic circuit shall be fitted with interlocking device that will prevent the operation of the outriggers while the work platform is raised from the rest position The outrigger controls shall be located at ground level so that the operator can see the outrigger being operated These controls shall also be protected against inadvertent activation and return to neutral when released by the operator	
Winch Control	If the MEWP is equipped with a material handling winch at the upper boom, it shall have both upper and lower controls to operate the winch	
Auxiliary system	If the main source of power breaks down, all movement shall stop An auxiliary system shall be provided for emergency operation of the MEWP This system shall enable at least the rotation of the turret, lifting and lowering of the bucket The activation of the emergency system shall be possible from the lower control and the system's operation shall be enabled at both control panels The lower controls will override the upper control when operated simultaneously Should the Upper control system be a mechanical lever type system, it shall be possible to activate the emergency system from ground level Where a PTO is utilised there should be an electric or mechanical interlock to disallow the PTO from operating while the vehicle's gearbox is engaged (or hand-brake failsafe system / alarm) (in any gear) PLC Cabinet 12V battery Where a separate battery is utilised for the PLC and control this battery will have a charge function which allows for the battery to remain fully charged at all times PLC control box shall have an IP rating of 66 (dust and moisture proof rating)	
Design Characteristics	Load Supporting Elements	
Design safety factors	The structural load supporting elements of the MEWP that support the platform, and which are made of a ductile material, shall have a design stress of not more than 50% of the minimum yield strength of the material This shall be based on the combined rated load and mass of the support structure The structural load-supporting elements of the MEWP that support the platform, and which are made of a non-ductile material, shall have a design stress of not more than 20% of the minimum ultimate strength of the material This shall be based on the combined rated load and mass of the support structure This factor includes all hinge pins The design shall be such that, in any circumstance the ductile boom shall fail before any hinge pins The same structural safety factors stated above shall also apply to the platform The structural design and stability calculations shall take into account all aspects considered in SANS 16328 2014 (section 4), including structural masses and rated load, wind forces, manual forces, special loads and forces and calculations of overturning and stabilising moments	
Electric safety devices	Safety switch systems acting as information giving components shall be designed to fail in safe mode Normally closed switches, if used, shall conform to IEC 60947-5-1	
Safety switch systems	Sensors or switches may be used under the following conditions	



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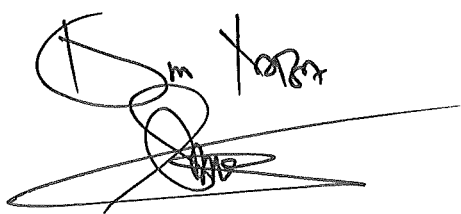
	They are duplicated, or Single sensors or switches may be used provided there is continuous monitoring of the plausibility of their signals Switches shall be designed to be reliable in dusty and dirty environments (preference for mercury switches)	
Damage to wiring	Wiring used as a signal-transmitting component shall be installed and protected in such a way as to avoid damage by external influences	
Hydraulic/pneumatic safety devices	Hydraulic/pneumatic parts of these devices/systems which act directly on full-flow valves of hydraulic/pneumatic systems need to be duplicated if a failure of one component can cause a failure of the system Pilot operated control valves in these services/systems shall be so designed and installed that they fail to safety (i.e. stop the corresponding movement) in the event of power failure This requirement is fulfilled by either A full-flow valve acting directly on the relevant part of a hydraulic/pneumatic circuit, or A valve which is positively mechanically operated, controlling a pilot-operated valve complying with 4.7.6 in SANS 16368 2014 pg 51 Mechanical safety devices Components of mechanical safety devices such as rods, levers, wire-ropes and chains shall be designed to take at least twice the normal load imposed on them	
Access Steps	When the distance between the access level and the floor of the work platform in an access position exceeds 0,4m the MEWP shall be equipped with an access step The steps or rungs shall be not more than 0,3 m apart and shall be spaced equally over the distance between the bottom step/rung and the floor of the work platform The bottom step/rung shall be not more than 0,4m above the access level Each step or rung shall be at least 0,3 m wide, at least 25mm deep and shall be slip resistant The front of the steps or rungs shall be a horizontal distance of at least 0,15m away from the supporting structure or any other components of the MEWP (SANS 16368 2007 pg 39) Non Slip material shall be incorporated on steps	
Handholds or handrails	Handholds, handrails or similar adequate devices shall be provided for both hands while climbing or descending the access ladder to the work platform They shall be arranged to avoid the use of controls and piping as handholds or footsteps (SANS 16368 2014 pg 39)	
Mechanical Stops	The movements of work platform(s) relative to the extending structure shall be limited by mechanical stops Hydraulic cylinders fulfil this requirement if designed for that purpose (SANS 16368 2014 pg 41)	
Non-conductive Buckets and Liners	The platform may be a one-man, one and a half man or two-man bucket or alternatively two single-man buckets with one situated on each side of the boom The bucket(s) shall be constructed of an integrally woven fibreglass structure consisting of either woven fibreglass cloth and/or woven roving materials Such materials shall be utilized on the sides and the bottom of the bucket structure Bucket shall not be manufactured solely of chopped fibreglass strands and shall not be made from polyethylene One-man buckets shall be square in shape and shall comply with the following dimensions The minimum bucket top inside dimensions shall be 560 mm x 560 mm minimum and 700 mm x 700 mm max The minimum bucket bottom inside dimensions shall be 500 mm x 500 mm	



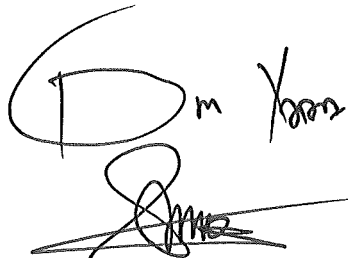
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	The minimum bucket depth shall be 1000 mm	
	In a twin single man configuration, the SWL load per bucket shall comply with the single man bucket rating (136kg)	
	The bottom dimensions shall correspond to the top dimensions	
	The bucket depth shall not be less than 1000 mm	
	Where the intention is to utilise a bucket for insulating work, and the bucket is not "insulating" (constructed of insulating material but does not pass the puncture test), A tested insulating liner shall be inserted in the bucket and the bucket marked accordingly "Insulated with liner inserted"	
	Non-insulating work platforms designed for use with insulating liners Non-insulating work platforms shall be constructed from non-conductive materials The work platform shall be identified as "non-insulating" if it does not have an insulating liner and is a non insulating bucket Insulating liners for these work platforms shall be constructed from non-conductive materials and tested in accordance with IEC 61057 1991, 8 6 1 and 8 6 2 The liner shall be supported by the inside bottom surface of the work platform These non-insulating work platforms shall not have drain holes or access openings	
	The work platform shall be made of at least self-extinguishing materials, i.e. materials that will not sustain a flame after the ignition source has been removed (See IEC 60707 for test methods)	
Mounting concept	The MEWP shall be mounted on a self-contained modular type frame which can be transferred from one carrier to another should the need arise	
	The frame shall be mounted to the chassis of the carrying vehicle by clipping, bolting, or other acceptable methods Only steel sill strips are acceptable Wood and other organic materials are not acceptable	
	Welding, cutting or modifying chassis frame rails and/or cross members between foremost and rearmost spring hangers is not acceptable	
	The frame shall be mounted in conformance to the recommendations of the chassis manufacturer for the intended application	
	The supplier shall state the method of frame mounting that conforms to the above stated requirements	
	A frame mounting technique that will result in frame cracking shall not be acceptable	
	Where Eskom supplies the chassis/cab, the manufacturer shall ensure that the above-mentioned requirements are met	
	The MEWP pedestal shall be mounted to the chassis by clipping, bolting or other acceptable methods Wood or other organic materials are not acceptable	
	Bearings for the slew gear on the turret will have a high quality bearings	
	The front or rear overhang of the stowed MEWP in relationship with the carrier (including the front bumper extension) shall conform to the requirements of the SA Road Traffic Ordinance	
	Totally independent of the structural supportive capabilities of the chassis frame, the sub-frame shall be structurally capable of supporting all loads imposed by the MEWP	
	The vehicle shall be fitted with tool compartments/boxes Eskom will specify the dimensions of preferred compartments Standard dimensioned compartments will be included on the unit and approved by Eskom	
	The tool boxes will be rubberised (lined) or carpeted on the interior to ensure there is no metal or moisture transfer onto equipment	
	Bins must be fit for purpose and be able to act as walkways	


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Performance	The maximum attainable height of the unit as measured from ground level to the bottom of the bucket shall be stated (in metres)	
	The maximum attainable horizontal reach of the unit as measured from the centreline of rotation to the outside of the bucket at 70% of the attainable height shall be stated Tendering suppliers shall supply profiles indicating the working envelope	
	The upper boom travel of a non-over centre MEWP shall be constructed in such a manner that it shall never exceed 90° from the horizontal plane	
	The upper boom travel of an overcenter MEWP shall be constructed in such a manner that it can attain at least 210° □ 5° from the horizontal plane	
Boom Stowage	When the unit is in the stowed position, there shall be no possibility of boom whip	
	The boom rest shall be of adequate design so as to withstand stow loads from the unit and withstand 450kg applied to the cradle without deformation	
	Boom securing device MEWPs shall be equipped either with a device(s) to secure the boom(s) or shall be designed to ensure that the boom(s) remain in the cradled position when in transport	
	Platform security Platforms shall be designed to withstand vibration and shock loading during travel	
Rotation	Rotation shall be hydraulically driven	
	The Rotation capability of minimum 340 deg, with the dead band (if applicable) over the centre of the cab w r t to the bucket	
	The rotation system shall be capable of rotating the maximum rated load capacity of the unit upward on a 5° incline with the bucket located at the maximum attainable horizontal distance away from the pedestal	
Maximum operating speeds	The maximum operating speeds of the extending structure of the MEWP shall be as follows	
	Raising and lowering of the work platform 0,4 m/s	
	Stewing with work platform at maximum radius (horizontal speed at the outer edge of the work platform 0,7 m/s)	
	When measuring the speed and it is not uniform, the average speed over the complete movement shall be used	
	The operating speed of the unit should either allow dual speed for precise movement (Slow and fast mode) closer to live work tasks or allow more precise movement without excess flexing of the boom on releasing of the control	
	Note The speeds above apply to the movement of the work platform resulting from the operation of a single control Simultaneous operation of more than one control may give faster movements	
Hydraulic tool circuit (Optional)	Where a hydraulic tool circuit for tools is required, Eskom shall provide the specification of the tools to be used to ensure that correct flow, pressure, hoses and fittings are provided	
	Tool hoses shall only be pressurised when the circuit is in use	
	The position of the control valve and pressure/return outlets shall be specified	
Hydraulic System	An open or closed centre hydraulic system may be used for the MEWP and pilot operated check or counter balance valves for the outriggers A safety system that will prevent the movement of the cylinder when the loss of hydraulic power or a hydraulic line failure occurs shall be incorporated or included For this reason double action cylinders with appropriate safety valves are preferred	
	The unit shall have a primary power source which will be powered from the engine PTO	
	The emergency operating system power source shall either be battery operated	
	The emergency system shall be capable of raising an aerial platform with full rated load from stowed position to maximum height It shall also be equipped with an indicator or warning light	



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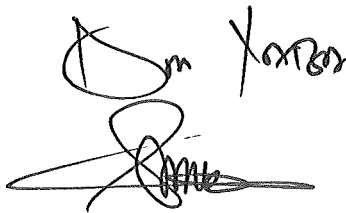
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	When operating the emergency operating system a maximum of two hands shall be required to operate the emergency system (i.e. one person shall be capable of operating the system comfortably)	
	New hydraulic oil for use across the insulating section of booms (upper or lower boom) shall have an official di-electric rating associated with a minimum rating of 40 kV (ASTM D 877 value)	
	Hydraulic oil for use across the insulating section of booms shall meet or exceed the di-electric test requirements as per Test Manual 240-135661769	
	All hydraulic components whose failure could result in motion of the platform(s) shall have a minimum bursting strength of at least four times the operating pressure for which the system is designed	
	The hydraulic oil reservoir shall be properly labelled next to the filler opening for the type of oil to be used	
	The hydraulic oil reservoir capacity shall satisfy the requirements of the pump	
	The hydraulic oil reservoir filler shall be of such design so as to prevent oil from splashing out of the reservoir. A gauge glass shall be fitted to the reservoir to indicate both minimum and maximum oil levels (when the boom is stowed)	
	The hydraulic oil reservoir filler shall be easily accessible and have a removable strainer	
	The hydraulic system shall be of such a hose size and design as to allow the operation of the hydraulic tool system at the bucket without creating oil temperatures in excess of 52 °C after 15 min continuous operation at an ambient outside air temperature of 29 °C	
	The hydraulic oil system shall also be fitted with:	
	a breather for moisture removal (typically vortex type which removes 99% of moisture). The care and maintenance of this unit shall be specified in the aerial unit documentation	
	A high pressure in line, cartridge filter (with by-pass) for particle removal capable of providing 10 micron absolute filtration. There shall be an indicator prior to the by pass activating	
	A filter fitted on return side (with by pass) capable of providing 10 micron nominal filtration	
	A drain plug provided on the reservoir	
	A Sample point shall be provided which allows insulating oil to be taken in line at a convenient position on the boom shall be provided	
Vacuum Prevention Systems	All hydraulic fluid lines which are situated near or inside the insulating boom on the MEWP and where the maximum height of the barometric column of hydraulic fluid (when all booms are extended) exceeds 11 m shall be equipped with devices which prevent depressurisation leading to a partial vacuum of hydraulic fluid pressure below (a difference of) 20 kPa and liable to produce electrical breakdowns	
Corrosion specification	The requirements of the Eskom corrosion specification shall be considered and a specification for the manufacturers corrosion process documented and shared with Eskom on tendering for Aerial units	
	Specific reference should be made to the following and covered in detail. This will be shared with the relevant specialists within Eskom for acceptance and or recommendation	
	Surface preparation	
	Pre-weld primer prior to welding application	
	Strip Priming Edges & Weld Beads	
	Primer Application	
	Top Coat Application	
	Procedure for spot repairs	



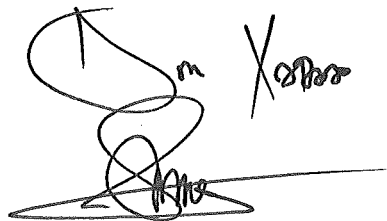
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Conductive platforms	Where a conductive platform is required, it shall conform to the following requirements Conductive buckets may be made from steel or an alloy that will provide adequate mechanical strength and is a good conductor Conductive bucket sizes may differ from non-conductive buckets The customer shall specify the preferred size	
Particular Electrical Characteristics	Earthing Mobile Unit All mobile units shall be equipped with a fixed insulated copper lead of a cross sectional area of not less than 40mm ² and an earth spike that comply with SABS 1063 for earthing the mobile unit	
Equipotential Earth Footplate	Shall conform to Eskom earthing requirements for a footplate (240-69125290) A fixed insulated copper lead of a cross sectional area of not less than 40mm ² and an equipotential earth footplate shall be provided for all mobile units that have fixed lower controls that are operated from ground The equipotential earth footplate shall be on the same side as the lower controls and shall be manufactured from 6mm thick checkered aluminium plate The footplate shall have a minimum size of 600mm X 600mm	
Bonding Equipment	Bonding Cable The cable used to bond the non-insulating bucket to the live equipment (bare-hand) shall have a cross sectional area of not less than 40mm ² multi stranded flexible copper, or similar conductor on pedestal to withstand full fault current Equipotential bonding All articulated parts and rotating parts of the MEWP shall be electrically bonded, (for example, the conductive brush on the bearing turntable, the jumper at the elbow)	
Discharge avoidance	Where required (Bare hand / Category A aerial units), electric discharge avoidance shall be achieved by equipotential bonding of all conductive components at the platform end Where an aerial unit is to be used as a category A unit (ANSI classification), the footplate inside the bucket must be connected to the metal parts at the top of the boom with a 40mm ² cable An additional 40mm ² cable, twice the depth of the bucket, must also be installed, this will be used to bond the footplate to the live apparatus to be worked on Leakage current measuring system The leakage current measuring system shall be installed on all insulating MEWPs that are rated above 44kV for testing and leakage current monitoring purposes Dielectric measuring electrodes shall be installed in accordance with annex B and C Copper or stainless steel measuring bands of 25-50mm width shall be used 6mm stainless steel bolts shall be used for bonding the measuring bands to the current meter receptacle lead Shielded cable shall be used for current meter receptacle lead Eskom representatives shall inspect measuring electrodes before final assembling of the boom The hydraulic pipes on the inside of the boom, must be attached to a metal bulkhead (as per Annexure B) and be connected to the co-axial cable receptacle	
Training	All operators shall be trained in the care, use and maintenance of the mobile unit as per SANS 18878 2007 (as per OHS Act DMR, NCOP requirements)	



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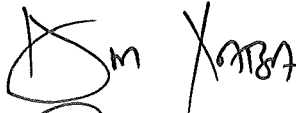
	<p>The supplier shall be responsible to ensure that at least two operators shall be instructed in the care, use and maintenance of the mobile unit. Proof of such training i.e. certificates shall be provided including any ancillary equipment like material handling jib</p> <p>At least one instructor in each OU / Grid to be trained to further train other operators on familiarisation of the unit</p> <p>Each Operating Unit / Grid shall have at least one person trained in the aerial unit acceptance check sheet included in Annexures C and G for the purpose of accepting aerial units from manufacturers / suppliers prior to delivery</p>	
Warranty	<p>The Supplier shall cover any warranty problems for parts and labour of all repairs made necessary due to defective components and materials, poor workman-ship or faulty design</p> <p>The Supplier's qualified repairman shall perform any warranty work incurred on Eskom job location unless special shop facilities are a requisite to effect the repair</p> <p>The supplier shall state the terms and conditions of the warranty in the bid proposal. Starting date of the warranty shall be the date of acceptance of the completed equipment by Eskom</p> <p>The insulated portion of the boom shall have a lifetime warranty (minimum 15 years)</p>	
Testing	<p>Testing shall comply to the requirements as per 240-135661769 MANUAL LIVE-WORK EQUIPMENT TESTING with reference to the acceptance tests for LW Aerial units</p>	
Acceptance tests	<p>Persons doing non-destructive tests shall conform to EST002</p> <p>Eskom representatives shall have access to the manufacturing/installation processes to establish conformance with this specification. Eskom representatives will make final inspection, testing and acceptance of the completed unit(s)</p> <p>Dielectric requirements</p> <p>The delivered mobile unit shall be dielectrically tested and certified accordingly</p> <p>A copy of the manufacturer's dielectric test certification/report shall accompany the mobile unit at the time of delivery</p>	
Marking/Documentation	<p>Each MEWP shall carry at least the following markings</p>	
Marking	<p>a) Type</p> <p>b) Serial number</p> <p>c) A specific model number assigned to the unit</p> <p>d) Platform height,</p> <p>e) Rated voltage,</p> <p>f) Capacity rating per bucket</p> <p>g) Jib capacity rating (vertical and horizontal)</p> <p>h) Total capacity rating (jib plus buckets)</p> <p>i) Date of acceptance</p> <p>j) MEWPs system pressure</p> <p>k) MEWP Manufacturing Company</p> <p>l) City, State, Country</p> <p>m) Installed by</p>	
Documentation	<p>The manufacturer shall assign a specific model number to any class of unit accepted as part of an Eskom tender – for aerial model, but with differences between different vehicle carriers listed</p> <p>Relevant reference documents for documentation include Eskom specification, SANS 16368 and SANS 18893 and IEC TS 61813</p>	




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	The instruction manuals must be split into an operating and maintenance section, with minimum reflection of the following sections	
Contents	Operating instructions on safe use (Training information)	
	Transport, handling and storage	
	Commissioning information	
	Manufacturers recommended intervals between tests	
	Maintenance information to coincide with Eskom standards and DMR 18	
	A section to be included in the operator manual for the specific details of the scheduled maintenance which takes place This provides a reference on the vehicle of when the last scheduled maintenance took place	
	Operator manual pages must be logically numbered with a table of contents section	
	Reference to the specific model shall be made in the applicable associated documentation	
	All aerial units shall be delivered with photo's and dimension drawings	
	The supplier shall furnish a layout sketch (drawings of a completed vehicle including tools compartments) in duplicate prior to the awarding of a purchase order	
	All labels provided shall be either etched or engraved plastic or substrate material, which is durable and does not deface, fade or peel off	
	At least one copy of the operating manual shall permanently accompany each mobile unit	
	Mechanical and hydraulic checklist and hydraulic circuit drawing shall be supplied	
	Manufacturer / supplier to specify maintenance requirement and schedules	
	Modifications to be covered by the OEM or written permission given when done by someone else A section to be included for such modifications	
Quality Management	All tendering manufacturers / suppliers shall conform to the requirements of 240-105658000 SUPPLIER QUALITY MANAGEMENT SPECIFICATION	
	requirements in QMS extend to the manufacturers, suppliers, sub contractors, components and sub components of the insulating MEWPs, as per 240-105658000 section 3	
	The approved agents of Aerial units shall be certified by the manufacturer or supplier Eskom will then audit this prior to any Aerial units products being accepted as part of the technical evaluation	
	For any new or re-designed Aerial MEWP's, a prototype process shall be followed and only once the technical evaluation of the unit has taken place and reported on, can products be considered acceptable within the OU / Grd	
	For new units a test will be done at Gerotec including Weigh bridge Tilt angle test Axle travel test Off the road test Acceptance test	
Acceptance / Acceptance		
Name of Evaluator		Signature
Name of Verifier		Signature
Any proposed deviations from this specification shall be listed below with reasons for the deviation(s) In addition, evidence shall be provided that the proposed deviation will at least be mor		

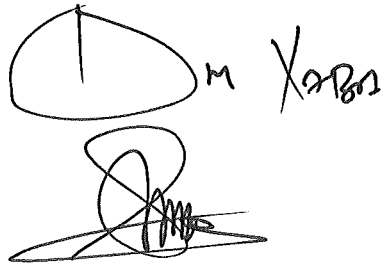
Technical Evaluation Criteria	100
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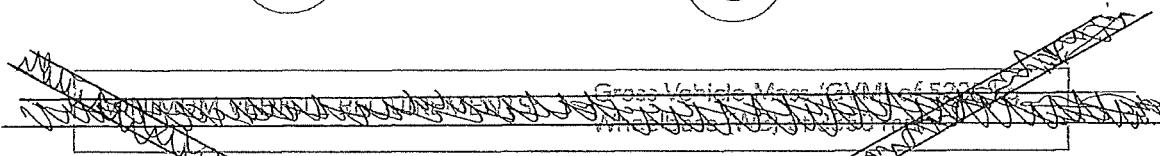
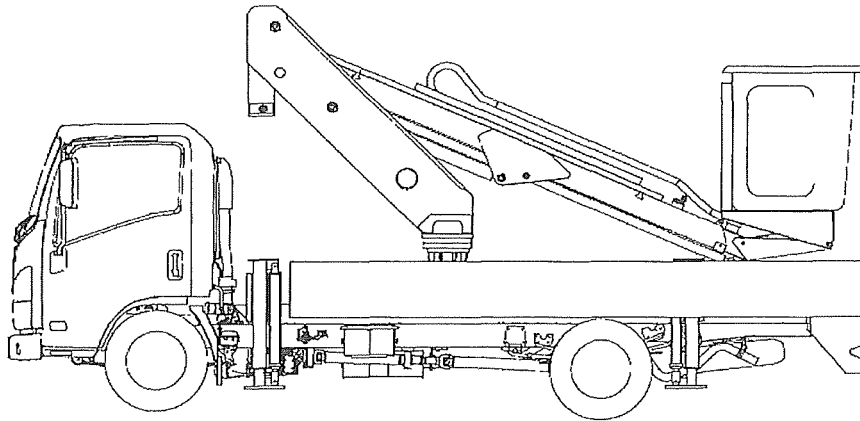




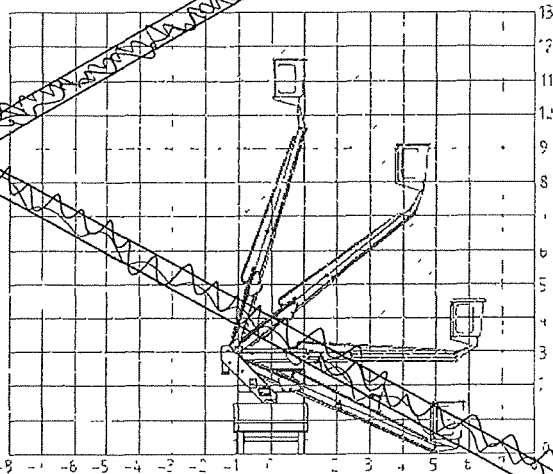
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Fully completed questionnaire in Annexure A3 confirming the compliance and non-compliance to the technical specification as well as prove (brochures) for verification of compliance	50
Original Equipment manufacturer (OEM) or register dealer	20
Proof of 12 (twelve) month warranty certificate from the Original Equipment manufacturer (OEM)	20
Proof of after sales service and repairs (OEM Service Level Agreement)	10


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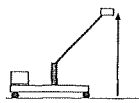



- Upper and lower control valves - we meet all current safety requirements per laws in South Africa.
- Stabilizer jacks with interlocks.
- Electrical emergency backup pump as standard.
- Emergency stop as standard.
- Start stop from bucket as standard.
- Full service and maintenance backup throughout South Africa.
- SCE is ISO 9001 2008 accredited.
- Designed and fabricated according to SANS 16368.
- Telescopic boom gives "point and shoot" simplicity.
- 1.5 m backswing and no elbow eliminates dangerous projections into passing traffic.



Dom Karbon

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Request for Truck mounted Aerial platform		
	New Aerial Platform	Existing Aerial Platform
Requested Date		
Region		
CC Group		
New Aerial Platform		
Operation Type (Voltage Rating)		
Platform working height		
Vehicle Type		
Aerial Platform Technical Information needed		
Insulated live line aerial platform		
Noninsulated dead line aerial platform		
Voltage Rating (22kV/44kV/132kV etc)		
One-man/two man bucket		
Control actuation, (insulating rods/fibre optics/radio etc)		
of the bucket (in metres)		
If hydraulic tool circuit is required, specify the tool that will be used		
Truck/Vehicle Specification		
Dimensions of tool compartments/boxes (Drawing to be attached if possible)		
Truck mounted crane - Crane Capacity range		
<u>Description of work application</u>		
RECOMMENDATION		
Regional Fleet Manager		
Regional Fleet Officer		
Regional Fleet technical Officer		
Date		



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