

Black Mountain Mining

BMM-HSE-SAF-SPEC-0001 BMM PPE Specifications

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Content Owner(s)

Eanthe Schrywer (Occupational Hygiene Officer| BMM)

Content Reviewer(s)

Mario Carstens (Chief Safety Officer) Leonard Magerman (Occupational Hygienist | BMM) Lukhanyo Ziphethi (Mining Manager | BMM) Tshilidzi Nemakhavhani (Plant Manager | BMM) Marinus Hanekom (Engineering Manager | BMM)

Content Approver(s)

Catharina Kotze (Head of HSE | BMM)

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DEFINITIONS AND ABBREVIATIONS

Word / Phrase / Abbreviation	Definition
PEME	PEME is an acronym used in Black Mountain Mining and has the following meaning: - People, - Equipment, - Materials, - Environment, The use of this in written documentation helps to comply with Resources Clause 7 – ISO 9001, ISO 14001 and ISO 45001. It is advisable to include in all written documentation.
Overalls	Loose-fitting trousers and jackets of strong fabric, worn for protection from hazards.
Fire retardant	Fire-retardant fabrics are textiles that are more resistant to fire than others through chemical treatment or manufactured fireproof fibers.
Industrial safety helmet	Headgear, hereafter referred to as “helmet or hard hat”, primarily intended to protect the upper part of a wearer’s head against injuries from falling objects.
Shell	The hard, smoothly finished material (Polyethylene) that provides the general outer form of the helmet.
Peak	An extension of the shell above the eyes, which should be the shorter type peak for working at heights.
Brim	Rim surrounding the shell.
Headband	The part of the PPE completely or partly surrounding the head.
Chinstrap	A strap which fits under the chin to help secure the helmet on the head. It is also used for working at heights to prevent hard hat from falling off the wearer’s head. This specification cover 2 different types of chin straps – three point and four point. The three and four point chin straps have break away clips to prevent the person from injuring himself if the chin strap hooks onto something.
Safety Footwear	Footwear, incorporating protective features to protect the wearer from injuries which could arise through accidents, fitted with toe caps, designed to give protection against impact when tested at an energy level of at least 200 J and against compression when tested at a compression load of at least 15 kN.
Rubber	Vulcanized elastomers.
Safety toe cap	Footwear component built into the footwear designed to protect the toes of the wearer from impacts up to an energy level of at least 200 J and compression at a load of at least 15 kN.

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Word / Phrase / Abbreviation	Definition
Specific job- related footwear	Safety, protective or occupational footwear relating to a specific profession, e.g. footwear for electricians conducting live switching on high tension electrical cables.
SHE	Safety, Health and Environmental.

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❖ PURPOSE

- 1.2 The purpose of this document is to prescribe the minimum requirements for Personal Protective Equipment used at Black Mountain Mine.
- 1.3 The Operating Units may determine additional requirements to suit their own needs or working conditions, provided that the minimum requirements as set out in this specification are met as well as the relevant legislation, and such additional requirements does not expose an employee to any risk.

❖ SCOPE

- 2.1. This specification applies to all BMM employees, **Contractor Business Partners** and visitors.
- 2.2. This specification does not prescribe specific brands that must be used by **Contractor Business Partners** but does require Contractor Business **Partners** to use Personal Protective Equipment that have the same or better **specifications** than the **BMM PPE Specification** for the specific Personal Protective Equipment in question, as compared to the same Personal Protective Equipment that is stocked by BMM.

❖ DOCUMENT REFERENCES

No.	SANS Standard	Protection
1	SANS 434	Body Protection (Protective clothing)
2	SANS 1397	Head Protection
3	SANS 20345	Feet Protection
4	SANS 420	General requirements for gloves
5	SANS 50325-1-2-3	Hearing protection
6	SANS 275	Respiratory protection
7	SANS 61482-1-1	Live electrical work PPE

REQUIREMENTS

4.1 General Requirements

All PPE shall meet the following minimum requirements:

- Must be the last means of protection.
- Must be supplied to an employee free of charge and be readily available.
- Must be suitable and fit for purpose.
- Must be kept in good condition and be in working order
- Misuse of PPE should be discouraged to ensure proper protection of employees.
- When properly used, it must be capable of controlling the employees' exposure by providing adequate protection from specific hazards in the workplace.
- Must be issued at a frequency that will ensure effective protection of employees and will depend on the condition of the equipment due to wear and tear.

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❖ ROLES AND RESPONSIBILITIES

It is the responsibility of the Foreman to ensure that they issue every individual with the correct Personal Protective Equipment for the correct application in accordance with the applicable specification.

It is the responsibility of every person using Personal Protective Equipment to ensure that they use the protection in line with the requirements of this specification.

It is the responsibility of the Personal Protective Equipment supplier on site to ensure the Personal Protective Equipment is stocked in accordance with the applicable specifications.

It is the responsibility of the **BMM** Contract Manager of the Personal Protective Equipment supplier on site to make these specifications available to the Personal Protective Equipment supplier on site.

❖ SPECIFICATIONS

Protection	Specification	Safety Hazards	Occupation/Area
HEAD 	All General Hard Hats shall: • Comply with SANS 1397 • Be Type 2 Class A Hardhat • Provide impact and penetration resistance along with limited voltage protection up to 2,200 volts). • Be SABS Approved • Have a ventilation opening on the top of the hat • Be tested for lateral deformation • Be purchased with adjustable chin strap • Have a shortened sun peak • Have thick sweat bands of standard size • Have a webbing suspension harness • Have limited rims/gutter • No color specification • SABS approved Ratchet inner/lining GME approved • Be tested for off-center penetration resistance and chin strap retention.	Impact and projectiles	All Work Places where applicable
CHINSTRAP 	All chinstraps shall: • Be a 2-point chin strap with elastic band	Impact and projectiles	All Work Places where applicable

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SUNHAT  SUN BRIM 	All Sunhats shall: • Be in lime color • Made from a heavy brushed cotton fabric • Metal eyelets • Cord with slide toggle • Reflective Tape • The front branding area is 80mm wide and 60mm high • Comply with SANS 1397: 2003 All Sun Brims shall: • Be in yellow/lime color • Cover the front and back of the hard hat 10mm binding around brim • Have stitching around brim circles for reinforcing. • Have a neck flap • Have a Wide brim • Be Lightweight • Be Waterproof • Be Easy to clean • Be Easy fitting The stitching shall comply with SANS 10101. The tread used shall comply with SANS 1362.	UV Exposure	Surface Areas
BUMPCAP 	All Bump caps shall: • Comply with SANS 1397 • Conforms to Standard EN 812 • Fabric brim with reflective strips • Protects against abrasions, bumps and falls • Rear adjustment buckles	Abrasion, bumps and falls	Engineering Workshops
WELDING HELMET 	All Welding Helmet shall: • Comply with SANS 1404 • Flip-up lens for welding and grinding • Poly-carbonate construction for strength and heat resistance • Adjustable head gear for head diameter, angle and height • Industrial quality • Standard with shade #11 lens and clear lens • Easily interchangeable lenses	Welding Activities	Boilermaker Workshops and Boiler making working areas

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EARMUFF 	All Earmuffs shall be: • Lightweight hearing protection device • Excellent user comfort • Adjustable headband • PVC headband • PVC cups • PVC cushions • EN Approved • Earmuffs with a single number rating (SNR) of 30 dB(A)	Noise	Where applicable
EAR PLUG 	All Ear Plug shall be: • Tested according to EN352-2 • All-in-one earplug • Tangle resistant • Easy to clean • Disposable HPD's with 25dB attenuation. • Visitors entering noise areas to be provided with HPD's that provide 25 dB attenuation.	Noise	Where applicable, high noise areas
CUSTOM MADE HEARING PROTECTION 	All custom-made hearing protection shall be: • Custom-made hearing protection, 25 dB(A) noise reduction rating (NRR) • SABS approved	Noise	Where applicable, high noise areas
ANTI FOG GOGGLE 	All Goggle shall be/have: • Indoor/outdoor lens • Fits ladies face comfortably • Soft nose bridge • Spectacle cord • Lightweight for user comfort • Anti-fog coating • Anti-scratch coating • High resistance to particles • Low energy impact • Optical class 1	Light, projectiles and minimal dust	Where applicable

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GENERAL PURPOSE GOGGLE 	All Goggle shall be/have: • Rimless spectacle • Wide field of vision • Soft side arms • Anti-fog coating • Anti-scratch coating • High resistance to particles • Low energy impact • Optical class 1 • En166 approved	Light, projectiles and minimal dust	Where applicable
GENERAL PURPOSE DARK LENS GOGGLES 	All General-Purpose Dark Lens Goggles shall be/have: • Sun glare filter • Protection against splash and dust • Impact resistance against fine particles such as dust • Optical class 1	Light, projectiles and minimal dust, UV	Where applicable
FACE SHIELD 	All Face shields shall be/have: • 2.2mm clear PC material Ventilation on the front side • Foam inserts for forehead	Light, projectiles and minimal dust	Where applicable
DUST MASK 	All dust masks shall be/have: Filter Type: FFP 2 • Disposable particulate mask for protection against solid and non-volatile liquid particles only; EN 149:2001 +A1 2009 FFP2 NR D CE 0086. • Protection factor 10 X WEL material that has low breathing resistance with effective protection against: sub-micron particles, fine dusts, non-volatile liquid mists and biological agents. • Valve provides effective removal of heat and moisture for a cooler and more comfortable wear whilst also minimising the risk of misting eyewear.	Total dust Crystalline Silica Quartz Crystalline Mineral dust (PNO) Inorganic Lead Dust Copper Zinc non-volatile liquid mists and biological agents.	Where applicable, high dust areas

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	SABS Approved		
SURGICAL MASKS 	All surgical masks shall have/be: 3-Ply Doctors mask $\geq 95\%$ efficient with ties - Help-It ASTM level 1 procedure mask-disposable with ties - Ultra soft material - Filters dust, pollen and bacteria - High filtration capacity - Built-in nose piece molds to face	Dust, pollen and bacteria	Where applicable, including clinic
WEDLING MASK 	All Welding masks shall be/have: - EN149:2001 + SANS 50149:2003 approved - FFP 2 + Carbon + Valve NR D (minimum) - Welding Filtering Face Piece 2 (FFP2) with valve: Nuisance filter masks (provide protection against ozone, welding fumes, plus relief from nuisance odors) are recommended as minimum protection - SABS Approved	Welding fumes	Where applicable, boiler making activities
HALF FACE RESPIRATOR 	All half Face respirators shall be/have: - Fitted with a cartridge (can be single or double cartridge) - SABS approved - Protection against hydrocarbons and spray painting Can be used for high dust areas if fitted with particulate filter cartridges for dust	hydrocarbons and spray painting high dust areas if fitted with particulate filter cartridges for dust	Where applicable, exposure to hydrocarbons and spray painting
CHARCOAL CATRIDGE 	All Cartridges shall have/be: - EN Approved - Protect against gas and vapor - Suitable for 3M tm AND 3M 7000tm series half and full-face masks.	against gas and vapor VOC's Sulphuric acid (H2SO4) Benzene (VOC's) Bromine Hydrochloric acid (HCl) Hydrogen cyanide Carbon	Where applicable, exposure to gas and vapor

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		disulphide Sulphur dioxide and inorganic acid	
FILTER 	All Filters shall have/be: - To protect against certain particles, dusts, mists, fumes - Protect against solid and liquid particles - Fitted with the 3M 6000 series cartridges and the 3M 501 retainer - EN Approved	particles, dusts, mists, fumes	Where applicable, exposure to particles, dusts, mists, fumes
FILTER RETAINER 	All retainers shall: - Hold the 5935 P3R particulate filter onto the 60xx gas/vapour filter to provide combination particle / gas / vapour protection to the wearer. - Be rugged and durable - Be replaced individually		
ELECTRICAL SHIRTS 	All Electrical Shirts shall: - SANS Approved - Fabric composition: Khaki in color, collared shirt with flame retardant reflective tape on sleeves 88% cotton 12% Nylon - Mass: 305gsm - Reflective: 50mm lime/silver/ lime flame retardant tape - Arc clothing to be worn with additional and correctly selected Arc PPE to ensure complete protection against the hazards of Arc Flash PPE Categories for further compatible PPE.	Electricity	Electrician general
ELECTRICAL BOILERSUIT 	All Electrical boilersuits shall be: - ATPV 15 cal/cm² - A.P.T. Fabric-88% Cotton, 12% Nylon, 305gsm - Flame retardant thread throughout - YKK concealed brass zip - Flame retardant Velcro closure - Triple needle topstitched garment - Flame retardant knitted rib cuffing - Two breast pockets with mitred flap & flame retardant Velcro closure & side entry hop pockets - Mm flame retardant reflective tape on arms, legs & "X" on back - Cal/cm² Rating embroidery on right	Electricity	Electrician general

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	breast pocket flap		
ELECTRICAL JACKET 	All Electrical Jacket shall be: • Silver flame retardant reflective tape on sleeves for enhanced visibility • Front opening with concealed flame retardant brass zip and Velcro strips closure for ease of putting on and taking off • Seams with triple needle topstitching for added durability • Sleeves feature a flame retardant knitted cuff providing a great seal when used with gloves and prevents sleeves from rolling upwards • Right sleeve with arc heat transfer print • 1 Left chest pocket and mitred flap with concealed flame retardant Velcro closure and arc heat transfer print • ATPV 15 Cal/cm² embroidery on right hand side of chest for garment suitability identification • 2 Rounded waist pockets with concealed flame retardant Velcro strip closure • Side slits for better fit over waist	Electricity	Electrician general
ELECTRICAL TROUSER 	All Electrical Trouser shall be: • Silver flame retardant reflective tape on sleeves for enhanced visibility • Front opening with concealed flame retardant brass zip and Velcro strips closure for ease of putting on and taking off • An elasticated waist with 7 belt loops • Seams with triple needle topstitching for added durability • Front with side swing pockets • Back right-hand side with rounded pocket and mitred flap with concealed flame retardant Velcro strip closure and arc heat transfer print • ATPV 15 Cal/cm² embroidery on right hand side of chest for garment suitability identification • Ruler pocket on the right back leg	Electricity	Electrician general

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ELECTRICAL GLOVES GENERAL 	All Electrical General Gloves shall be: • Electrical glove Seamless knitted glove CAT 2 • Arc flash protection - ATPV 12 CAL/cm2 • Cut level 5 protection EN 407 • EN 388 • EN 1149 • Flame resistant Anti-static	Electricity For normal electrical work where there is a risk of arc flash	Electrician general	Electrician general
SWITCHING SUIT 	All Switching Suits shall be: • Royal blue • Consisting of hood, jacket, trousers and gloves • Flame-resistant and arc-rated material to protect the worker against the thermal effects of an electric arc flash (minimum of 40 calories/cm2 flash rating)" and are permanently flame-resistant for the life of the garment. • Cover the whole body from neck to wrist to ankle • Non-metallic fasteners or fasteners that are protected by a layer of the same material as that of the garment on both the top and underside Conforms to SANS 724, IEC 61482-2 and NFPA 70E All Switching Trouser shall be: • Adjustable brace with black flame retardant nylon clips • Flame retardant Velcro adjustable tabs (15cm in length) at the waist • Seams with triple needle top stitching for added durability • ATPV 55 cal/cm² embroidery on back left center panel for garment ATPV classification • Right back panel with arc heat transfer print • Double needle topstitch boot piece for added durability • Flame retardant Velcro adjustable (115cm in length) above leg hem	Electricity	Electrician sub station	

SWITCHING JACKET 	All Switching Jackets shall be: • Flame retardant chunky zip with plastic slider and flame retardant Velcro strip closure • Seams are triple needle topstitched for added durability • Sleeves feature a flame retardant knitted cuff providing an effective seal when used with gloves and prevents sleeves from rolling upwards • Right sleeve with arc heat transfer print • Arc heat transfer print and ATPV 55 cal/cm² embroidery below print on the left chest of jacket for garment ATPV classification	Electricity	Electrician sub station
SWITCHING HOOD 	All Switching Hood shall be: • Cotton comfort • Flame resistant • Wash with water • Excellent breathability • Visor for arch flash suit True colour light green Anti-fog • Flame-resistant and arc-rated material to protect the worker against the thermal effects of an electric arc flash (minimum of 40 calories/cm² flash rating)" • Conforms to SANS 724, IEC 61482- 2 and NFPA 70E	Electricity	Electrician sub station
CARRY BAG 	All Carry Bags shall be: • Lightweight • U shaped top zip • Two straps around bag	Electricity	Electrician sub station
SWITCHING GLOVE	All Switching gloves shall be: • Flame resistant • Cotton comfort • Wash with water	Electricity	Electrician sub station

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ARC WINTER JACKET 	All Arc Winter Jackets shall be: • Padded navy blue long sleeve collared jacket with reflective tape on sleeves • 88% Cotton and 12% nylon	Electricity	Electrician General
ACID RESISTANT BOILERSUIT 	All Acid-Resistant Boilersuits shall be: • Poly Viscose Acid Boilersuit • SABS approved • Shoulder seam triple stitched • Collar with single needle top stitching • Black Mountain complex embroidery • Armhole seam triple stitched • Concealed Ng5 metal button closure • Concealed 15L metal press stud closure • Vedanta zinc interlock embroidery • Lime silver lime 50mm with 19mm silver reflective tape on back • Lime silver lime 50mm with 19mm silver reflective tape above chest pockets 14cm in length • Chest pockets with round corners and double needle top stitching • Ruler pocket with double needle top stitching	HCS/VOC's	Where exposed to HCS/VOC's

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ACID RESISTANT JACKET & TROUSER 	All Bottle Green Poly Viscose Acid Conti Jacket & Trouser shall be: Trouser • Concealed 38mm hard pull elastic • Ng5 metal button 7 pin 17mm x 1 • Belt loops - size 28 - 32 5 loops size 34+ 7 loops • Chest waist size label • Swing pocket with double needle top stitching • Double fabric patch with double needle top stitching Jacket • Size label, wash care label, Production tag & hanger loop • Collar with single needle loop stitching Front yoke with single needle top stitching Black Mountain complex embroidery • Lime silver lime 50mm with 19mm silver reflective tape X on back 30mm in length • Lime silver lime 50mm with 19mm silver reflective tape on yoke above chest pockets 14cm in length • YKK nylon navy zip for chest pocket opening x 2 • Sleeve hem 1.5cm	HCS/VOC's	Where exposed to HCS/VOC's
ACID RESISTANT LADIES JACKET 	All Acid-Resistant Ladies Jackets shall be: • Storm label, Alpha size label, J54 wash care label, Production tag & hanger loop • Collar with single needle loop stitching • Front yoke with single needle top stitching • Lime silver lime 50mm with 25mm silver reflective tape X on back 30mm in length • Lime silver lime 50mm with 25mm silver reflective tape on yoke above chest pockets 14cm in length • YKK nylon navy zip for chest pocket opening x 2	HCS/VOC's	Where exposed to HCS/VOC's
ACID RESISTANT LADIES TROUSER	All Acid-Resistant Ladies Trousers shall be: • Concealed 38mm hard pull elastic • Ng5 metal button 7 pin 17mm x 1 • Belt loops - size 28 - 32 5 loops size 34+ 7 loops • Storm label, chest waist size label, production tag & J54 wash care label • Storm sidewinder	HCS/VOC's	Where exposed to HCS/VOC's

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	• Swing pocket with double needle top stitching • Double fabric patch with double needle top stitching		
FLAME RETARDANT BOILERSUIT 	All Flame Retardant Boilersuits shall be: • SABS approved • Shoulder seam triple stitched • Collar with single needle top stitching • Concealed buttonhole with Ng5 metal button & pin 17mm • Flame acid embroidery on right arm • Chest pockets with double needle top stitching • Flame retardant silver 48mm reflective tape round arms • Concealed navy YKK brass double way zip • Sealed 38mm hard pull elastic • Hip pocket with double needle top stitching • Flame retardant silver 48mm reflective tape round legs	Heat/metal sparks/slash fires	Boiler making activities
FLAME RETARDANT AND ACID RESISTANT OVERALL JACKET 	All Flame Retardant Overall Jacket shall be: • Chest waist size tag and self-fabric hanger loop • Shoulder seam triple stitched • SABS label, D59 Flame Acid label and production tag • Collar with single needle top stitching • Armhole seam and side seam triple stitched • Flame-retardant acid-resistant embroidery on upper right arm • Concealed 15L metal pressed stud • Chest pocket with double needle top stitching • Silver reflective tape flame retardant 48mm around both arms • Concealed YKK Brass open end zip with double needle top stitching • Sleeve seam triple stitched • Lower front pockets with double needle top stitching • Concealed 38mm white hard pull elastic • Side slit 10cm • Jacket bottom hem 1.5 cm • Arcelor Mittal embroidery in white	Heat/metal sparks/slash fires	Boiler making activities

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FLAME RETARDENT AND ACID RESISTANT OVERALL PANTS 	All Flame Retardant Overall Trouser shall be: • Money pocket • Belt loops-size 28-40 5 loops and size 42+ 7 loops • Ng5 17mm metal button and pin • Concealed 38mm hard pull elastic • Swing pocket with double needle top stitching • Chest waist size label inside trouser • Back rise triple stitched • Concealed YKK Brass closed end zip with double needle top stitching • SABS Label, D59 Flame Acid label and production tag sewn onto back of swing pocket • Hip pocket with double needle top stitching • Silver reflective tape flame retardant 48mm around legs • Inner leg seam triple stitched • Leg hem 1.5 cm	Heat/metal sparks/slash fires	Boiler making activities
WELDING APRON 	All Welding Aprons shall be: • Complies with the requirements of: Directive 89/686/EEC • Cow hide split Leather • Colour: Leather Chrome Grey • Size: 118 x 60cm • Neck strap and buckle for adjustments • Made from chrome leather	When conducting welding and cutting in restricted workspace s, when gouging and with lancing tasks, to protect the front of the body. Also, for hammering steel to avoid injuries from splints	Boiler making activities
WELDING LEATHER YOKE 	All Welding Leather Yoke shall be: • Style: Long sleeve jacket, with Chinese collar and press stud closure. • Fabric composition Yoke: ±1.45mm thick, cow split leather. • Binding: Red polyester. • Fasteners: Nylon. • Thread: Cotton. • Compliance & Conformity Complies with	Heat/metal sparks/slash fires	Boiler making activities

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	the requirements of EN388:2003, (4,1,2,2) for mechanical risks.		
LONG WELDING GLOVE 	All Long Welding Glove shall be: - EN 420-03 EEC Basic standards EN 388-03 Physical Hazards approved - EN 407-04 Heat hazards approved - EN 12 477-2000 Protection for Welders type A approved	Heat/metal sparks/slash fires	Boiler making activities
RIGGER BOOT 	All Rigger Boots shall be: - Category C - SABS approved - Upper Material - Black leather - Non-woven "Cambrelle" Lining Material - Sole heat resistant up to 300 degrees Celsius - Shank reinforcement moulded into midsole - Dual density PU injected sole - Slip Resistant - Shock Absorbent 200J Safety Toe Cap	Heat/metal sparks/slash fires	Boiler making activities
CHEMICAL DISPOSABLE COVERALL 	All Chemical Disposable Coveralls shall be: - Drawing on decades of experience in the field, the Tyvek 500 Xpert garment offers enhanced - protection against a range of threats, from water-based chemical liquid splashes, asbestos, - pharmaceutical and radioactive particulates to biological hazards. - Size: S, M, L, XL, 2XL	Chemicals, oils	As and when required Crusher lubrication Room and cyanide plant, backfill plant and main fans
UNBLEACHED GENERAL BOILERSUIT	All Unbleached boilersuits shall be: - J54 Unbleached Boilersuit - SABS approved - Shoulder seam triple stitched - Collar with single needle top stitching - Black Mountain complex embroidery - Armhole seam triple stitched	Basic use	Men Surface and underground No specific occupation

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	• Concealed Ng5 metal button closure • Concealed 15L metal press stud closure • Vedanta zinc internation embroidery • Lime silver lime 50mm with 19mm silver reflective tape on back • Lime silver lime 50mm with 19mm silver reflective tape above chest pockets 14cm in length • Chest pockets with round corners and double needle top stitching • Ruler pocket with double needle top stitching		
ROYAL BLUE BOILERSUIT 	All Royal Blue boilersuits shall be: • SABS approved • Shoulder seam triple stitched • Collar with single needle top stitching • Armhole seam triple stitched • Concealed Ng5 metal button closure • Concealed 15L metal press stud closure • Vedanta zinc internation embroidery • Lime silver lime 50mm with 19mm silver reflective tape on back • Lime silver lime 50mm with 19mm silver reflective tape above chest pockets 14cm in length • Chest pockets with round corners and double needle top stitching • Ruler pocket with double needle top stitching	Basic use	Men Surface and underground No specific occupation
CONTI SUIT ROYAL BLUE JACKET AND TROUSER 	All Royal Blue Conti-suits shall be: • SABS Approved • Concealed 38mm hard pull elastic • Ng5 metal button 7 pin 17mm x 1 • Belt loops - size 28 - 32 5 loops o size 34+ 7 loops • Chest waist size label • Swing pocket with double needle top stitching • Double fabric patch with double needle top stitching • Jacket • Size label, wash care label, Production tag & hanger loop • Coller with single needle loop stitching • Front yoke with single needle top stitching • Black Mountain complex embroidery • Lime silver lime 50mm with 19mm silver reflective tape X on back 30mm in length • Lime silver lime 50mm with 19mm silver reflective tape on yoke above	Basic use	Men Surface and underground No specific occupation

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	- chest pockets 14cm in length • YKK nylon navy zip for chest pocket opening x 2 • Sleeve hem 1.5cm		
THERMAL UNDERWEAR MEN VEST 	All Thermal Underwear (Men's) shall be: • White 100% cotton • Fully elasticated waist • Double stitched opening gusset Crotch • All seams on the garment's safety stitched Sizes – Small up to 6XL	Basic use	Men Surface and underground No specific occupation
THERMAL UNDERWEAR MEN TROUSERS 	All Thermal Underwear (Men's) shall be: • White 100% cotton • Fully elasticated waist • Double stitched opening gusset Crotch • All seams on the garment's safety stitched Sizes – Small up to 6XL	Basic use	Men Surface and underground No specific occupation
OFFICE TROUSERS MEN 	All Men's Office Trousers shall be: • 100% Cotton • SABS Conti Trouser • 50mm Plain silver reflective tape • Navy Blue J54 (100% cotton, 230gsm) • Fully triple stitched back rise • Two side swing pockets • One back patch pocket • 5 belt loops • Aluminum zip • Metal button close	Basic use	Men Surface No specific occupation

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OFFICE SHIRT MEN 	All Men's Office Shirts shall be: • 100% Cotton UV Lime / Navy Shit Long Sleeve • Two embroidered logos • Button to neck close • 2 x Breast pocket • Pen section on right breast pocket • Button down cuffs with gauntlet • Large back vent • 50mm silver reflective tape on arms and 2 strips around waist	Basic use	Men Surface No specific occupation
OFFICE TROUSERS WOMEN 	All Women's Office Trousers shall be: • 100% Cotton • SABS Conti Trouser • 50mm Plain silver reflective tape • Navy Blue J54 (100% cotton, 230gsm) • Fully triple stitched back rise • Two side swing pockets • One back patch pocket • 5 belt loops • Aluminum zip • Metal button close	Basic use	Ladies Surface No specific occupation
OFFICE SHIRT LADIES 	All Women's Office Shirts shall be: • 100% Cotton UV Lime / Navy Shit Long Sleeve • Two embroidered logos • Button to neck close • 2 x Breast pocket • Pen section on right breast pocket • Button down cuffs with gauntlet • Large back vent • 50mm silver reflective tape on arms and 2 strips around waist	Basic use	Ladies Surface No specific occupation
WIM LADIES JACKET GENERAL	All WIM General Jackets shall be: • Navy Blue in color • Storm label, Alpha size label, J54 wash care label, Production tag & hanger loop • Coller with single needle loop stitching • Front yoke with single needle top stitching • Lime silver lime 50mm with 25mm	Basic use	General-nonacid areas

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	silver reflective tape X on back 30mm in length • Lime silver lime 50mm with 25mm silver reflective tape on yoke above chest pockets 14cm in length • YKK nylon navy zip for chest pocket opening x 2 • Sleeve band with bound slit & adjustable Velcro closure		
WIM LADIES TROUSER GENERAL 	All WIM General Trousers shall be: • Navy in color • Concealed 38mm hard pull elastic • Ng5 metal button 7 pin 17mm x 1 • Belt loops - size 28 - 32 (5 loops) ▪ size 34+ (7 loops) • Storm label, chest waist size label, production tag & J54 wash care label • Storm sidewinder • Swing pocket with double needle top stitching • Double fabric patch with double needle top stitching	Basic use	General-nonacid areas
THERMAL UNDERWEAR LADIES VEST 	All WIM Thermal Underwear Vest shall be: • Binding with double stitching on neckline of vest • All seams on the garments safety stitched • Fully elasticated waist Crotch • Sizes – Small up to 6XL	Basic use	General-nonacid areas
THERMAL UNDERWEAR LADIES PANTS 	All WIM Thermal Underwear Pants shall be: • Binding with double stitching on neckline of vest • All seams on the garments safety stitched • Fully elasticated waist Crotch • Sizes – Small up to 6XL	Basic use	General-nonacid areas

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LADIES SAFETY BOOT 	All WIM Safety Boot shall be: • Ankle Boots leather – Ladies • SABS approved • All leather upper cut from 2.0-2.2mm chrome tanned, full grain Lunar leather with pink reflective trim • Well-padded tongue with well-padded ankle • Comfort vamp lining treated with “ULTRAFRESH” • Lining from “Cambrelle” type material • Rust resistant eyelets • Collar padding from soft closed cell foam • Anti-bacterial Insole and sock • Shank reinforcement molded into midsole • Slip Resistant • 200J Safety Toe Cap • Conforms to SANS 20345 • Sizes 2-8 Note: Only laces permitted (NO Velcro or stretch material inserts permitted)	Impact Abrasion	Surface
WINTER JACKET 	All Freezer Jackets shall be/have: • Padded • Removable cap • silver reflective tape strips as indicated 50mm	Cold stress	Available to be issued to anyone working at BMM
FREEZER SUIT	All Freezer Suits shall be/have: • The Thermoskin freezer suit is a high-quality double-lined freezer suit available in a range of • sizes from small to 4XL with a generous cut for a comfortable fit. • An outer lining made from 210D Oxford Nylon makes the Thermoskin	Cold stress	Shaft area, conveyor belt

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	- Freezer suit breathable, lightweight and durable. - The 130gsm double layer inner padding is rated to -10°C protecting the wearer from - especially cold work environments, and the Taffeta inner lining, with vertical quilting, - ensures that the inner fill does not sag. - The Thermoskin suit also features a non-removable hood.		
RAIN SUIT 	All Rainsuits shall be/have: - Yellow in color - Jacket and pants - Waterproof - With cap - With wrist bands	Wet weather conditions	Surface areas
WADER CHEST 	All Wader Chests shall be/have: - Size: 5 – 12 400g PVC - With or without steel toe cap in gumboot - Double welded seal on join between upper and boot - Black webbing shoulder straps - Quick release buckles - Elasticated waistband	Slurry conditions	Backfill
REFLECTOR JACKET 	All Reflective Jackets shall be/have: - SABS Approved - High visibility reflective safety wear worn over the torso is intended to provide conspicuity of the wearer in any light condition when viewed by operators of vehicles or other mechanized equipment during daylight conditions and under illumination of headlights in the dark. - Two tone, high visibility sleeveless jacket with zip closure, front and rear reflective tape. - Materials: Woven polyester, fluorescent lime green and orange fabric with black polyester binding. - Fasteners: Nylon zip with metal slider. - Reflective tape: 50mm PVC (Poly vinyl)	UV exposure, surface areas for visibility	Where applicable

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	chloride) white reflective tape		
CAP LAMP BELT 	All Cap Lamp Belts shall have/be: - Available for underground mining employees - Features Adjustable 45mm webbing belt with straps for cap lamp and self-rescuer, standard buckle - Size: S, M, L, XL	Insufficient illumination	Underground
LAMP BELT + SHOULDER STRAPS 	All Lamp Belt + Shoulder Straps shall be/have: 50mm black webbing - Interlocking buckles 50mm black seatbelt webbing shoulder braces	Insufficient illumination	Underground
KIDNEY BELT 	All Kidney Belt shall have/be: - A 20cm, broad elastic kidney support - Three flexible supports in the back area - Double stitching re-enforcing closures - Velcro closure/fastening - Washable	Vibration	TMM Operators

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KNEE GUARDS 	All Knee Guards shall be/have: • 10mm thick EVA Foam • 8mm thick hard outer casing • 2 straps of webbing fitted with a nickel-plated buckle • Acid, alkaline and oil resistant. Non-toxic and UV stable	Low working areas Belt Splicers and Tilers	Belt Splicers and Tilers
BENJI SOCKS 	All Socks Benji shall have/be: • Made from Material: 100% Acrylic • Heavy duty • Grey • Calf length • Tie back design	low temperatures in wet conditions.	Underground
FURLINER SOCKS 	All Fur liner shall have/be: • Gumboot fur liners for protection against low temperatures in wet conditions. • Material Composition: 70% polyester, 30% Acrylic • Universal sizing.	low temperatures in wet conditions.	Underground
NITRILE GLOVE 	All Nitrile Gloves shall have/be: • Standard EN ISO 21420:2020/EN 388:2016 + A1:2018 approved • Mechanical risk protection • Protects against grazes, • Protects against lacerations • Coating: Nitrile rubber (NBR) • Coating surface area back of the hand, palm	Water resistant, lacerations	As and when required

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GOAT SKIN GLOVE 	All Goat skin Gloves shall have/be: • Provides maximum protection with advantage of dexterity • Protects hand and wrist • Provides sensitivity with adequate protection • Glove is made of leather • Protects against mechanical risks	mechanical risks	As and when required
FLEXINITE GLOVE 	All Flexinite Gloves shall have/be: • 100% Polyurethane palm coating • Water based PU Micro Foam finish • Composite knitted wrist • High visibility • High durability • High dexterity • Super grip	General	For inspections, audits, site visits, operation of TMM where required, and general purposes where the risks, referred to in the not recommended column, to the right is not present
IMPACT GLOVE 	All Impact Glove shall have/be: • IR-X® Impact Exoskeleton impact protection • 13-gauge polyethylene material Nitrile palm dip for good grip when using water, oils and lubricants • Reinforced thumb crotch patch Elastic Cuff • CE 4544XP	using water, oils and lubricants	For activities that requires upper/back hand protection against impact, for example persons working throughout the day with hammers and for activities at drills and moving cables of drills and shovels

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CUT RESISTANT GLOVE 	All Cut Resistant Gloves shall have/be: • EN 388:2016 4x4 4F • Shell: 13G HPPE/Steel/Fiberglass • ANSI/ESEA Cut-A6 • Polyurethane grip • Knit wrist • Seamless construction • Cut protection level F • Launderable • Ultimate dexterity and tactility Reinforces thumb crotch area	Impact Cut and abration	All Electricians and Belt Splicers (for use with Stanley knife)
ZEUS SAFETY BOOT 	All Zeus Safety Boots shall have/be: • Steel toe cap • Wide fitting • Buffalo leather • Oil and Acid Resistant • The Gladius sole made from double density PU/PU • The boot can withstand temperatures up to 90°C • The not is anti-static	Impact Abrasion	Surface
LEMAITRE SAFETY BOOT 	All Lemaitre Safety Boots shall have/be: • Category B • SABS approved • Black leather upper cut from 2.0-2.2mm • Speed rings from steel treated with corrosion- resistant brass coating • Lace braided and from polyester yarn	Impact Abrasion	Surface
ASSASSIN SAFETY BOOT 	All Assassin Safety Boots shall have/be: • Dual density polyurethane • Water repellent • Full grain leather • Unisex	Impact Abrasion	Surface
EGOLI GUMBOOT 	All Egoli Gumboot Boots shall have/be: • SABS Approved • Nylon Knit • Steel Toe Cape	Impact Water	Underground

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SHOSHOLOZA GUMBOOT 	All Shosholoza Gumboot Boots shall have/be: • Category D • SABS approved • PVC • Steel toe cap	Impact Water	Underground
SHOSHOLOZA GUMBOOT – WIDE CALF 	All Shosholoza Wide Calf Gumboot Boots shall have/be: • SABS Approved • Wide Calf • Steel Toe Cape	Impact Water	Underground

❖ **PPE SIGNAGE**

Shape: Circular
Color:Blue
Pictogram: White

MV 23



MV 25



MV 3



MV 10



MV 11



MV 7



MV 8



MV 12



MV 1

MV 1 Eye protection shall be worn.

MV 2

MV 2 Respiratory protection shall be worn.

MV 3

MV 3 Head protection shall be worn.

MV 4

MV 4 Hearing protection shall be worn.

MV 5

MV 5 Hand protection shall be worn.

MV 6

MV 6 Foot and leg protection shall be worn.

MV 7

MV 7 Foot protection shall be worn.

MV 8

MV 8 Lifeline shall be used.

MV 9

MV 9 Apron shall be worn.

MV 10

MV 10 Face protection shall be worn.

MV 11

MV 11 Air supplied respirator shall be worn.

MV 12

MV 12 Bust mask shall be worn.

MV 13

MV 13 Air extraction ventilation compulsory.

MV 14

MV 14 Welding screens compulsory.

MV 15

MV 15 Use safety cage.

MV 18

MV 18 Safety Harness compulsory.

MV 23

MV 23 Full welding gear compulsory.

MV 25

MV 25 Reflective jacket compulsory.



❖ **FALL PROTECTION**

Refer to BMM-ENG-GEN-PLN-0005c BMM Fall protection plan & Risk Assessment for specifications on fall arrest equipment

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❖ IMPLEMENTATION

To allow sufficient time to place new or improved items in stock and for employees to be issued with the PPE as per this specification, a period of 6 months from the implementation date of this procedure is provided, by which time all BMM employees and Service Providers are required to be compliant with this specification.

❖ VALIDITY AND DOCUMENT MANAGEMENT

10.1. DOCUMENT VALIDITY

This SOP is effective from 2025/02/19 and was last reviewed on 19-02-2025. This SOP will be reviewed every 2 Years.

10.2. DOCUMENT MANAGEMENT

- 10.2.1. This SOP replaces any other SOP issued earlier by BMM to the extent specifically covered here. This SOP should be followed in letter and spirit.
- 10.2.2. BMM is committed to continuously reviewing and updating policies and procedures, based on the Entity's risk assessment and shall incorporate for any regulatory requirement which is required to do so.
- 10.2.3. Any amendment to this SOP or issue of any guidance or circular etc. under this procedure must be approved in writing by the approving authority as listed in this document.
- 10.2.4. BMM reserves the right to withdraw, modify or revise the SOP as a whole / partial without providing any justification for the same. On revision, it should be duly communicated to the personnel involved.
- 10.2.5. If compliance with this SOP ever conflicts with the applicable law, regulation, directives issued by the statutory and or regulatory authority, then compliance must be ensured with the law.
- 10.2.6. In order to ensure compliance or to address any known conflicts with the law or to address any specific local requirements, BMM may adopt local sub-procedures which shall be by way of addendum to this SOP and which shall be approved by the approver of this SOP. Proposing of such addendum shall be the responsibility of the respective Entity's competent authority who is at an equivalent level with the SOP owner as set out in this document.

10.3. VIOLATION OF SOP

- 10.3.1. BMM follow a "Zero Tolerance Policy" with respect to non-compliance with this SOP and/or any other SOP / guidance issued by BMM and its constituent Entities.
- 10.3.2. Violation of this SOP is subject to appropriate disciplinary actions which may include but not limited to termination of employment. This determination will be

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based on the facts and circumstances of each situation. Any accused of violation of this SOP will be given an opportunity to present their case prior to any determination of appropriate disciplinary actions. Violation of this SOP may also be subject to substantial civil damages, criminal fines and prison terms.

10.3.3. Each employee is responsible for ensuring that their conduct and the conduct of anyone reporting to them shall fully comply with this SOP. Compliances, both personal and by subordinates, will be a factor in periodic performance appraisals.

10.4. DISCLAIMER

10.4.1. This SOP issued by BMM is for internal compliance and does not create, nor shall it be construed to create, directly or implicitly, any rights, duties or obligations of BMM to any person, body or legal Entity.

10.4.2. This document and its contents are the copyright property of BMM. The release of this document to any third party outside BMM is strictly prohibited without prior consent.

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❖ **REVIEW AND APPROVAL**

Content Owner(s)

Eanthe Schrywer (Occupational Hygiene Officer| BMM) TimeStamp: 2025/06/11 3:33:56 PM ||

Content Reviewer(s)

Mario Carstens (Chief Safety Officer) TimeStamp: 2025/06/26 12:19:51 PM ||
Leonard Magerman (Occupational Hygienist | BMM) TimeStamp: 2025/06/26 12:26:32 PM ||
Lukhanyo Ziphethi (Mining Manager | BMM) TimeStamp: 2025/07/10 2:50:12 PM ||
Tshilidzi Nemakhavhani (Plant Manager | BMM) TimeStamp: 2025/07/11 2:28:52 PM ||
Marinus Hanekom (Engineering Manager | BMM) TimeStamp: 2025/07/21 11:57:26 AM ||

Content Approver(s)

Catharina Kotze (Head of HSE | BMM) TimeStamp: 2025/07/24 1:20:11 PM ||

This document was approved (in sequence) by the individuals above using electronic approval in our Document Control System.

Final approval status: Approved

Approvals were done electronically.

❖ **ANNEXURES / APPENDIX**