

Technical evaluation for Personal Protective Equipment.

All clothing must comply with Eskom Personal Protective Equipment Specification 240-44175132

Item	TECHNICAL/ FUNCTIONAL CRITERIA	WEIGHTING FOR CRITERIA
Operating Jacket	<ul style="list-style-type: none"> • The jacket shall have a collar. • The front shall be an open type with fastenings. • The jacket bottom shall have a plain hem, without side vents. • Pockets shall be as required (see Annex A) and without flaps. For bottom pockets. • Sleeves shall be one-piece long and set in. • Front edges shall have grown-on facings of width at least 45 mm and the inside edges neatly finished. • Each front panel shall not have a yoke. • The fronts shall fasten with a slide fastener that extends to at least 90 mm above the bottom hem. • A front with butted edges shall be such that the slide fastener is concealed and stitched down. • Slide fasteners shall be secured to the fronts with two rows of stitching along each stringer. • The back shall be plain (no centre back seam). • Sleeves shall be of the one-piece. • The sleeve ends shall have a plain cuff of width at least 15 mm. • Pockets shall be patch pockets of outer material and shall have round corners. • Pocket mouth hems shall be of finished Width 10 mm or 20 mm (see 4.5.14). • Breast and side pockets shall be of finished measurement as given in Table 6. • The breast pocket shall be positioned above the scye level in accordance with acceptable patternmaking and garment construction practice. • The colour shall be Navy Blue. Pantone 19_3920 for flame treated jackets and bottle green for chemical treated jackets. 	10

	<ul style="list-style-type: none"> • The pencil pocket shall form part of the breast pocket and of width (mouth opening) at least 40 mm and the full depth of the breast pocket and shall be positioned at the centre front end of breast pocket. • The pencil pocket shall be formed by a row of vertical stitching from the front edge. • Breast pocket flap shall be mitred, lined with outer material, and fasten in the centre with a button and buttonhole. • A flap shall be of depth at least 50 mm, at the mitred point and taper to at least 30 mm at the ends. • A flap shall be of such length as to overlap the pocket width, shall be positioned at least 10 mm above the pocket mouth and shall be securely tacked at each end; the bottom of a jacket shall be finished with a plain hem. 	
Trousers (Long)	<ul style="list-style-type: none"> • Flame treated long pants shall be made of pre-shrunk 100% soft woven cotton fabric in accordance with SANS 1387-4, Material Type D 59- flame retardant SANS 1423-1 class C category 1. • Chemical treated long pants shall (Alkali & Acids) be made of pre-shrunk 65% / 35% polyester/viscose fabric in accordance with SANS 1387-3 and shall have acid resistant finish. • Long pants shall comply with the size specification in SANS 434 (refer to the trousers for the two-piece Personal Protective Clothing). • The pants shall be a standard five pocket style which shall exclude the ruler/carpenter's pocket. • The pants shall have a waistband which shall be elasticated ruched at the back with a zip front and one (1) button on the front of the waistband and a plain bottom. • The waistband shall have the number of belt loops as prescribed in SANS 434. • The colour shall be Navy Blue. Pantone 19_3920 for flame treated pants and bottle green for chemical treated pants. • The logo shall be applied in accordance with Eskom's Corporate Identity and shall be embroidered on the right back pocket. • The stitching shall comply with SANS 10101. • The zip fastener shall comply with SANS 1822 and shall be made of a non-conductive material. 	10

	<ul style="list-style-type: none"> • The thread used shall comply with SANS 1362. • The Zero Harm identification shall appear on the left back pocket of the pants and shall be in accordance with Eskom's Corporate Identity. • All pants to be fitted with reflective strips on both legs above the knees, with an exception for conditions stated in 3.2. bullet point 5. 	
Shirts (Long Sleeve)	<ul style="list-style-type: none"> • All shirts must be of T006 satin weave 100% cotton fabric as per Annex C and treated with a flame-retardant finish that complies with SANS 1423-1, class C category 1. • The shirts shall comply only with the requirements and sizes referred to Annex A. • Button front with yoke and two breast pockets and flaps to button closure. • The pockets shall be 16 cm deep and 14 cm wide. • The pockets and flaps shall have round edges. • The flaps on the pockets shall have a pen division on the left side. • The front pocket shall be fastened by means of non-conductive buttons. • The collar shall be a standard shirt collar. • The back of the shirt shall have an inverted pleat with hanger loop and yoke. • Long-sleeved shirts shall have a cuff- 65 mm wide set-in long sleeve with two knife pleats separate the cuff with button closure of non-conductive buttons. Sleeve opening bound with binding. • The shirt shall be corporate colour (Grey). (CKS 129-188c). • The logo shall be embroidered in accordance with Eskom's Corporate Identity. • The front buttons shall be sewn onto a strengthened front and shall be non-conductive. • The stitching shall comply with SANS 10101. Seams shoulder, sleeve and back yoke posted. • Side seam and under arm safety stitch. Hems finished 10mm. • The thread used shall comply with SANS 1362. 	10

	<ul style="list-style-type: none"> The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity. 	
Shirts (Short Sleeve)	<ul style="list-style-type: none"> All shirts must be of T006 satin weave 100% cotton fabric as per Annex C and treated with a flame-retardant finish that complies with SANS 1423-1, class C category 1. The shirts shall comply only with the requirements and sizes referred to Annex A. Button front with yoke and two breast pockets and flaps to button closure. The pockets shall be 16 cm deep and 14 cm wide. The pockets and flaps shall have round edges. The flaps on the pockets shall have a pen division on the left side. The front pocket shall be fastened by means of non-conductive buttons. The collar shall be a standard shirt collar. The back of the shirt shall have an inverted pleat with hanger loop and yoke. The shirt shall be corporate colour (Grey). (CKS 129-188c). The logo shall be embroidered in accordance with Eskom's Corporate Identity. The front buttons shall be sewn onto a strengthened front and shall be non-conductive. The stitching shall comply with SANS 10101. Seams shoulder, sleeve and back yoke posted. Side seam and under arm safety stitch. Hems finished 10mm. The thread used shall comply with SANS 1362. 	10

	<ul style="list-style-type: none"> The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity. 	
Thermal Jacket	<ul style="list-style-type: none"> Jackets shall be insulated with pre-shrunk hollow cotton fibre 135 g/m2 which is made of non-flammable material, the inner material shall be a tartan lining, 100% cotton of a darkish colour, with the outer covering be pre-shrunk 100% soft woven fabric in accordance with SANS 1387-4, Material Type D59, flame retardant. (SANS 1423-1), class C category 1. The size shall be in accordance with Annex A. The jackets shall have one chest pocket and four side pockets. The side pocket shall be the bellows type with a side entry into another separate pocket and shall be 22 cm deep and 21 cm wide. The pockets shall have flaps with cut-off edges that can be fastened by means of non-conductive press studs. Chest pockets shall be the bellows type – 15 cm deep and 14 cm wide. The jackets shall reach below the buttocks. The jackets shall have non-conductive press-studs down the front on a double panel strip as well as a non-conductive zip complying with SANS 1822 and be intact front and back. The sleeve cuffs shall have two non-conductive press-studs at the end of the sleeve so that the size can be adjusted. The Eskom logo shall be embroidered in accordance with Eskom's Corporate Identity. The stitching shall comply with SANS 10101. The thread used shall comply with SANS 1362. The jacket shall comply with the Eskom identity requirements and shall be Eskom Navy blue (Pantone 19_3920 as per corporate colour code. The thermal jacket to be fitted with reflective strips on both sleeves' circumference on the inner upper arms. 	10

	<ul style="list-style-type: none"> The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity. 	
Rainsuits	<ul style="list-style-type: none"> The fabric for the jacket and trousers shall be a minimum of 180 grams per square meter with the face side 100% polyester, plain weave with 170 threads per square inch and coated with a water-resistant coating. The "under" side to be laminated with PVC coating. Seams strength to be 50kPa, (converts to 50kN/m²). The lining to be 80% polyester and 20% cotton. All sizing benchmark to SANS 434 see size chart Annexure E for rain wear and chemical chart specification. The rain jacket shall have a nylon spiral zip and a closed fly front secured by non-conductive press-studs and shall comply with SANS 1822 type 5(auto lock alloy sliders). The hood shall be attached to the rain jacket. The rain jacket shall cover the buttocks. The sleeves shall have a false elastic sleeve at the end (made of a softer material) to prevent rain entering the sleeve. The pants shall have two side slits and elasticised waist. Rain suits shall be Navy blue in colour. The rain suit shall be fitted with reflective strips on both sleeves' circumference on the inner upper arm, reflective strips on both legs above the knees The Zero Harm identification shall appear on the right side of the sleeve and shall be in accordance with Eskom's Corporate Identity. The Eskom logo shall be silk-screened in accordance with Eskom's Corporate Identity, on the front and on the back. The size of the Eskom logo on the front shall be 65 mm high and on the back the Eskom logo shall be 150 mm high. 	10

<p>Safety Boots (steel toe cap)</p>	<ul style="list-style-type: none"> • Toe construction type: steel or carbon fibre; tread surface type sole rubber or polyurethane or combination of both and shall have minimum oil and resistance of 4, slip resistant of 3, water resistance of 3, heat resistance of 4, abrasion resistance of 4 and with penetration resistant insert. • Material must be full grain upper leather and be made in standard or wide size. • The boots shall be dark brown. Where it is not possible to obtain brown then black will be the only alternative and the laces shall match the relevant boot colour. • Only locally produced or manufactured textiles leather and footwear material or input will be considered. • Item to be marked with SABS SANS 20345: mark of approval. 	<p>10</p>
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Bush Hats	<ul style="list-style-type: none"> • The material shall be pre-shrunk 100 % woven cotton fabric in accordance with SANS 1387-4, material type D59, and flame retardant, class C category 1. • The colours shall be Navy Blue. Pantone 19_3920. • The Eskom logo shall be embroidered on the front of the hat in accordance with the Eskom Corporate Identity. • The Zero Harm identification shall be embroidered on the rear of the hat and shall be in accordance with Eskom's Corporate Identity. • Soft hats shall have a reinforced stiffened broad brim of at least 80 mm and shall have a draw string fitted with a spring-loaded clip. • The stitching shall comply with SANS 10101. • The thread used shall comply with SANS 1362. 	10
Sun Brim (For Hard Hat)	<ul style="list-style-type: none"> • The shape of the brim shall be oval and shall have a front back and neck protector attached to bottom of the brim. • The material shall be pre-shrunk 100 % woven cotton fabric in accordance with SANS 1387-4, material type D59, and flame-retardant class C category 1. • The colours shall be Navy Blue. Pantone 19_3920. • The Eskom logo shall be embroidered on the back flap in accordance with the Eskom Corporate Identity. • Sun brim shall have a reinforced stiffened broad brim of at least 90 mm (Brim malgray chip board material 600 to 800g/m2). • Inside diameter 740mm (front to back 240mm and side to side 200mm). • Outside front to back 430mm and from side-to-side 380mm. 	5

	<ul style="list-style-type: none"> • The stitching shall comply with SANS 10101. • The thread used shall comply with SANS 1362. • Insert for hard hat front peak flap centre 130mm and side fitted to other brim. • Insert for hard hat rear section centre 130mm and sides fitted to other brim. • Neck protector at back centre 230mm long and sides fitted halfway to outer sun brim protector. • Velcro 40 by 25mm attach on left side of brim and rear insert of flap for stability. • Cotton twill tape 20mm to be fit on inner, outer brim front and back peak supports and neck protector. • Front peak support to be stitched down 70mm from other brim edge. • Top bottom and inner layer shall have a minimum of 6 rows reinforcement stitching around the brim. 	
One Piece Boiler suit/overall	<p>One Piece Boiler suits/overalls shall be in accordance with SANS 434.</p> <ul style="list-style-type: none"> • The fronts shall be shirt-style open fronts with a collar. • The top section, if not cut in one with the trouser section, shall be joined by means of a seam at waist level. • The back be cut in one piece and shall be joined to the trouser section by means of a seam at waist level. • The waistline shall require elasticized from side seam to side seam. • The collar shape shall be such as to be acceptable, the width at the centre back shall be at least 80 mm and the steps shall be of width at least 35 mm. • Set-in sleeves shall be of one-piece construction and be fitted with a cuff at the bottom end. • Cuffs plain with a double folded turned-in hem of at least 15 mm. • The front fastening at bottom of the opening shall be securely bar-tacked. All 	10

	<p>raw edges shall be turned in and stitched. Fly front shall fasten with a slide fastener as per SANS 1822 Figure 4 two-way fastener type A.</p> <ul style="list-style-type: none"> • The slide fastener shall be secured with two rows of stitching on each stringer. • The front edges shall overlap at least 35 mm and the facing shall be grown on. • The finished width and depth of a pocket shall be measured from edge to edge on the outside of the pocket with pencil pocket. Pocket mouths shall be finished with a hem that is deep enough to accommodate the attachment of a fastening and shall be adequately secured. • Breast hip pockets: shall be patch pockets, with rounded corners. • The side and bottom edges of a pocket shall be turned in at least 10 mm and stitched down with two rows of stitching of at least 2 mm and a maximum 10 mm respectively. • The mouth of the pocket shall be hemmed and each end of the pocket mouth and shall be securely bar-tacked. • The breast pocket shall be positioned above the scye level in accordance with acceptable patternmaking practice. • The hip pocket shall be positioned appropriately from the side seam in accordance with acceptable patternmaking practice and at least 60 mm from the waist seam. • Side pockets shall have a slanted mouth opening of minimum finished length 180 mm and shall have an inside patch pocket of outer material. • Pencil pocket shall form part of the breast pocket and of width at least 40 mm and the full depth of the breast pocket and shall be positioned at the centre front end of breast pocket. • The pencil pocket shall be formed by a row of vertical stitching from the front edge. 	
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	<ul style="list-style-type: none"> • Pocket flaps shall be mitred. • Flaps shall be lined with outer material and shall fasten in the centre with a button and buttonhole. • All flaps shall be of depth at least 50 mm, and a mitred flap shall taper to at least 30 mm at the ends. • A flap shall be of such width as to overlap the pocket at each side and shall be positioned at least 10 mm above the pocket mouth and securely tacked at each end. • Buttonholes shall be large enough to neatly accommodate the buttons and shall be as follows: If four-hole plastics buttons are used, a shirt type buttonhole may be used. • The bottoms of the legs shall have a plain double folded hem of at least 15 mm. 	
Tog bags	<ul style="list-style-type: none"> • Tog bags shall be made from hard-wearing PVC canvas material and shall have a drawstring closure. • A label holder with a clear plastic window shall be stitched on one side of the tog bag. • The colour of the tog bag shall be Eskom Navy blue Pantone 19_3920. • The Eskom logo shall appear in white silkscreen printing in accordance with Eskom's Corporate Identity. • The height of the bag shall be a minimum of 60 cm with a diameter of 30 cm. 	5
	Total	100

Note

Tenderers who do not meet the 90% threshold for functionality scoring will be disqualified and not be evaluated further.

All aspects need to be backed up with documented evidence showing compliance