COMRADES MARATHON 2024 RUNNER'S RACE MEDALS

1. MEDAL VARIATIONS

The medals shall be supplied in 9 variations as per CMA 3/2024 bid document and shall be as in the table below.

Images are not to scale. The dates reflected on the images below serve as guidance, however the date required on the date bar shall be as per the tender document.

TYPE	MEDAL	TYPICAL IMAGE
A	GOLD Medal	**Figure 1** 
B	WALLY HAYWARD Medal	**Figure 2** 
C	ISAVEL ROCHE-KELLY Medal	**Figure 3** 

D	**SILVER Medal**	**Figure 4** 
E	**BILL ROWAN Medal**	**Figure 5** 
F	**ROBERT MTSHALI Medal**	**Figure 6** 
G	**BRONZE Medal**	**Figure 7** 

H	**VIC CLAPHAM Medal**	**Figure 8** 
I	**BACK-TO-BACK Medal**	**Figure 9** 

2. COMPONENT MATERIALS

2.1 BASE MATERIAL

The following refers to the base material of both the medal and attached date bars:

2.1.1 ***Medal types* A, B, C, D, E, F & G*:***

Made of zinc that complies with the relevant requirements.

2.1.2 ***Medal type* H*:***

Made of zinc with copper plating.

2.1.3 ***Medal type I:***

Made of brass.

3. DESIGN AND CONSTRUCTION OF MEDALS

3.1 GENERAL (applicable to all medal types)

3.1.1 ***Medals***
To be die-struck in a collar (minted).

3.1.2 ***Date bars***
Made of zinc to be casted or die-struck; Actual date displayed on date bar shall be as stated in the bid document.

3.2 INDIVIDUAL DESIGN FEATURES

3.2.1 Gold medal (Type A):

- base material to comply with the requirements as given in 2.1.1;
- to be sandblasted;
- have a polished rim;
- medal, date bar and attaching ring to be electroplated with 24ct gold;
- gold plating to comply with the requirements as given in paragraph 6.3.

3.2.2 Wally Hayward medal (Type B):

- base material to comply with the requirements as given in 2.1.1;
- to be a two-tone medal;
- outer ring to be electroplated with 24ct gold;
- inner circle shall be bright silver;
- date bar and attaching ring to be electroplated with 24ct gold.

3.2.3 Isavel Roche-Kelly medal (Type C)

- base material to comply with the requirements as given in 2.1.1;
- to be a two-tone medal;
- outer ring to be electroplated with 24ct gold;
- inner circle shall be bright silver;
- date bar and attaching ring to be electroplated with 24ct gold.

3.2.4 Silver medal (Type D):

- base material to comply with the requirements as given in 2.1.1;
- medal, date bar and attaching ring shall be electroplated with nickel;
- to have a bright nickel appearance (no oxidization).

3.2.5 Bill Rowan medal (Type E):

- base material to comply with the requirements as given in 2.1.1;
- to be a two-tone medal;
- outer ring to be electroplated with bright nickel;
- inner circle shall be bronze;
- date bar and attaching ring shall be bronze matching the medal.

3.2.6 Robert Mtshali medal (Type F)

- base material to comply with the requirements as given in 2.1.1;
- medal, date bar and attaching ring shall be with a titanium finish;
- to have a titanium appearance.

3.2.7 Bronze medal (Type G):

- base material to comply with the requirements as given in 2.1.1;
- to be toned according to the supplied sample;
- medal, date bar and attaching ring shall match the finish of the sample medal.

3.2.8 Vic Clapham medal (Type H):

- base material to comply with the requirements as given in 2.1.2;
- to be sandblasted and treated to avoid oxidization;
- medal, date bar and attaching ring shall match the finish of the medal.

3.2.9 Back-to-Back medal (Type I):

- base material to comply with the requirements as given in 2.1.3;
- base material to be brass;
- to be toned according to the supplied sample;
- medal, date bar and attaching ring shall match the finish of the sample medal.

4. DIMENSIONS

4.1 MEDALS

4.1.1 Medal Types A, B, C, D, E, F, G & H

- 40mm in diameter;
- 4mm thickness.

4.1.2 Medal Type I

- 33mm in diameter;
- 4mm thickness.

5. WORKMANSHIP

5.1 **All medals** (**except Back-to-Back medal**) shall be:

- Die-struck, made and finished with acceptable standards throughout.
- Of uniform and acceptable make, colour and finish.
- Free from defects that affect their appearance and/or affect their serviceability (or both).
- Free from burrs, rough or sharp edges and surface blemishes.

5.2 **Back-to-Back medals** shall be:

- Die-struck in a collar (minted), made and finished with acceptable standards throughout.
- Of uniform and acceptable make, colour and finish.
- Free from defects that affect their appearance and/or affect their serviceability (or both).
- Free from burrs, rough or sharp edges and surface blemishes.

5.3 Each date bar must be:

- Made of zinc and finished with acceptable standards throughout, ensuring that the medal does not detach from the ring which attaches it to the date bar.

6. FINISHING

6.1 Polishing

The polishing shall:

- Be carried out prior to the plating of the medals.
- Be carried out until an acceptable smooth and even surface is obtained.
- Not cause any loss of definition of the design.

6.2 Nickel plating

The nickel coating shall:

- Be electroplated with a uniform deposit.
- Have a bright finish.
- Nickel plating must comply with the requirements as given in SANS 136.
- Have no contact marks from the electroplating process.
- Render a clean surface.
- Adhere firmly to the base metals.
- When viewed at a distance of 350mm, be free from the following defects: blisters, pits, roughness, cracks, stains, discoloration and mechanical damage.
- The thickness of the coating shall be 5µm at any point.

6.3 Gold plating

The gold coating shall:

- Be electroplated with a uniform and bright deposit of gold.
- Have a minimum gold content of at least 995 parts per 1000, when tested with an acceptable non-destructive test method (e.g. an instrument operating on the beta-ray back-scatter principle).
- Be of a colour as per sample.
- Have no contact marks from the electroplating process.

- Render a clean surface.
- Adhere firmly to the base metals.
- When viewed at a distance of 350mm, be free from the following defects: blisters, pits, roughness, cracks, stains, discoloration and mechanical damage.
- The thickness of the coating shall be 1µm at any point, and:
- Be tested by using an acceptable non-destructive test method (e.g. an instrument operating on the beta-ray back-scatter principle) to determine the thickness on the obverse and reverse sides of the medal.

The discontinuity of the coating shall be tested as follows:

- Use a volume fraction of 50% aqueous solution of nitric acid at 25º/25ºC = 1,42 maintained at 18ºC ± 2°C;
- Immerse the medal to a suitable depth, in the acid for (60 ± 2) s.

Regard the following as evidence of discontinuity:

- Evolution of gas bubbles during immersion;
- imparting of a blue colour to the acid solution;
- definite change on the obverse or reverse sides of the medal on removal from the acid solution;
- more than 6 pinpoint defects on the obverse or reverse of the medal.

7. NORMATIVE REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this specification. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of a standard, parties to agreements based on this specification are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards may be obtained from the South African Bureau of Standards.

SANS 136, *Metallic coatings - Electrodeposited coatings of nickel.*

SANS 1303-1, *Wrought copper alloys Part 1: Chemical composition of copper-zinc alloys (non-leaded and leaded).*