Annexure-A

TECHNICAL SPECIFICATION

ELECTRICAL ARC PROTECTIVE SUIT

Electrical Arc Protective Suit Having Protection to 40cal/Cm^2 under HR Category-4

MATERIAL OF FABRIC CONSTRUCTION:

- Multi layered Fabric System should meets ASTM F 1506-02a & NFPA 70E;
- The material of composition should be Kevlar, Nomex having inherent fire retardant property.
- Weight of the fabric should be less than 12.5oz/yd^2
- The whole garment/suit should be stitched with **Nomex thread**.

ARC PROTECTION COAT

DESIGN OF COAT

- The coat should be designed to offer maximum protection with limited discomfort to the user.
- The coat should be provided with double front closure with zipper and Nomex Velcro safety flap/Hook and loop.
- The sleeves of the coat should be provided with Nomex knit sleeves cuffs/ Hook and loop.

ARC PROTECTION PANT

DESIGN OF PANT

- The pant should be designed to offer maximum protection with limited discomfort to the user.
- The pant should be provided with wide leg space that allows the work boot to pass through.

ARC PROTECTION HOOD

DESIGN OF HOOD

- The visor of the hood should be energy absorbing polycarbonate plastic.
- The visor should provide superior Visible Light Transmission (VLT).
- The visor should be coated on the outer surface to be scratch resistant to extend their use life, with a permanent Anti-fog coating on the inner surface to avoid fogging.
- The hood should be designed keeping in mind to offer maximum comfort and head space with a ratchet type headband / safety helmet.

ARC PROTECTIVE GLOVE

DESIGN OF THE GLOVE

- The hand glove should be designed in four fingers and a thumb pattern.
- The glove should offers high level of arc flash protection.

APPROVAL

- **The complete suit should be certified to NFPA 70E.**

Note: 1. The supplier should provide the detailed technical literature of the product and test certificate.
2. If the garment is made of fabric coated with fire retardant material – it will be rejected.

J. Dutta 22/08/2016