



# WEARABLE TECHNOLOGY FOR THERMAL COMFORT AND ENHANCED PRODUCTIVITY

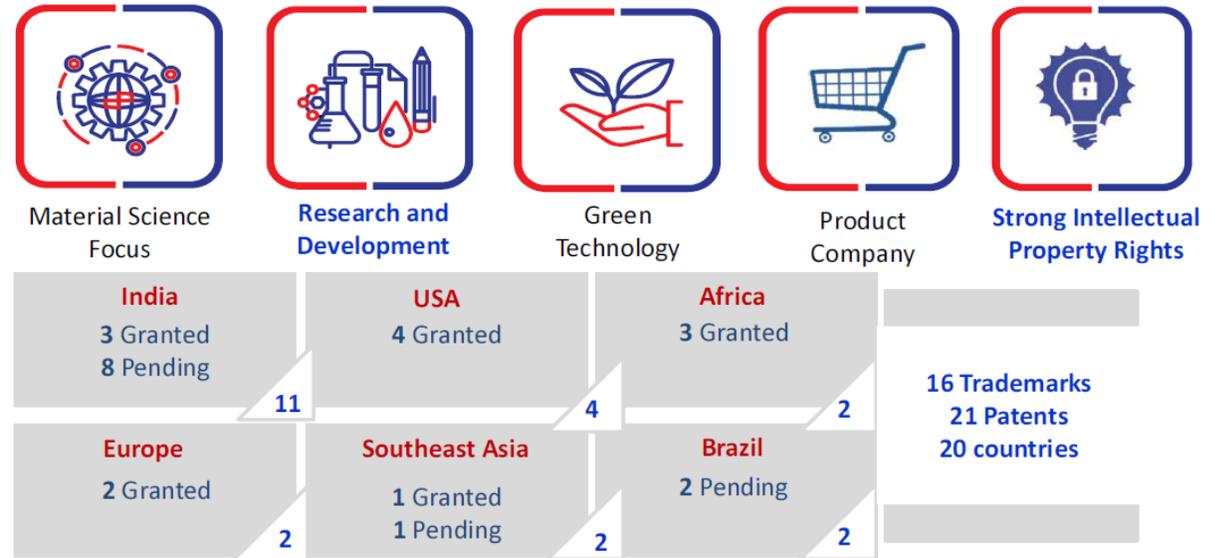


## About us

- 1994: Incorporated, PLUSS Advanced Technologies started with R&D and manufacturing of specialized polymers.
- 2007: PLUSS commenced development in the field of Phase Change Materials (PCMs) technology.
- 2012: Company raised equity funds from Tata Capital Innovations Funds and expanded R&D, developed and commercialized first of its kind temperature control solutions using proprietary materials.
- Provides temperature control solutions across refrigeration, cold storage, cold-chain logistics, HVAC, healthcare sectors & Wearable thermal Technology.
- 2021: Acquired by Carborundum Universal Limited – a Murugappa group company, with over 50,000 employees and presence in over 43 countries.

Established as a tripartite in 1954, CUMI is a leading materials sciences engineering solutions provider. CUMI, part of the Murugappa Group, is listed on Indian Stock Exchanges – NSE, and BSE.

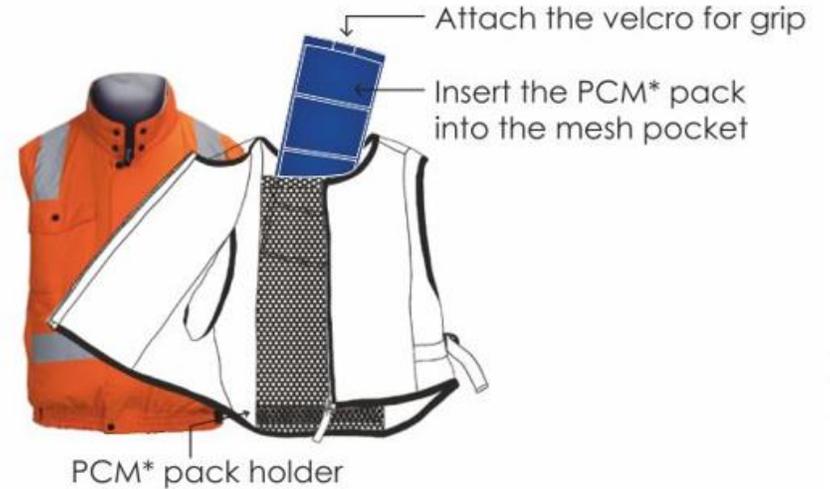
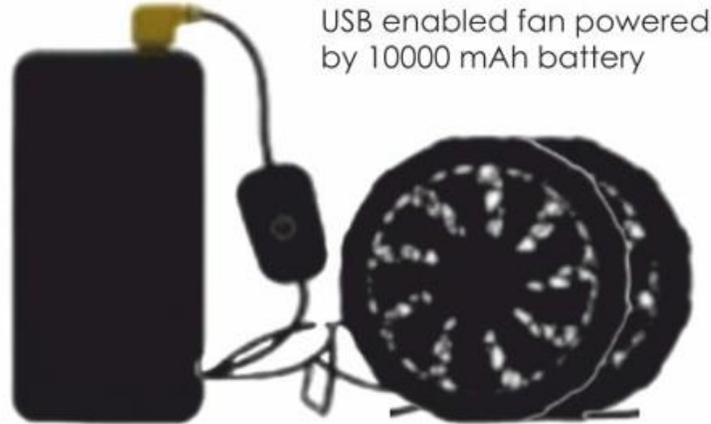
## Leaders in Thermal Energy Storage



## Partnerships



# Introducing **brrf PLUS<sup>®</sup>** fan cooled jackets with latest PCM\* technology that keeps the body temperature at +25 °C.



Helps keep cool in high temperatures



PCM\* based jackets that works up to 5 hrs



Stylish and Comfortable to wear (no hindrance in work)



Economical



Easy to use

\*Phase Change Materials.

# PRODUCTS

## VESTS

This Vest can take up to 4 PCM pouches. Easy to assemble and use, this promises to keep the temperature of your body lower by up to 20 degrees from the ambient.



COLOUR	SIZE	NO.OF PCM POUCHES	DESIGNED FOR TEMPERATURES	WORKING CONDITIONS	TIME DURATION
WHITE	OPEN	4	40° C AND ABOVE	EXTREME	8 HOURS
GREEN	OPEN	4	40° C AND ABOVE	EXTREME	8 HOURS
BLACK	S/M	1	30-40° C	MODERATE	8 HOURS
BLACK	L/XL	1	30-40° C	MODERATE	8 HOURS



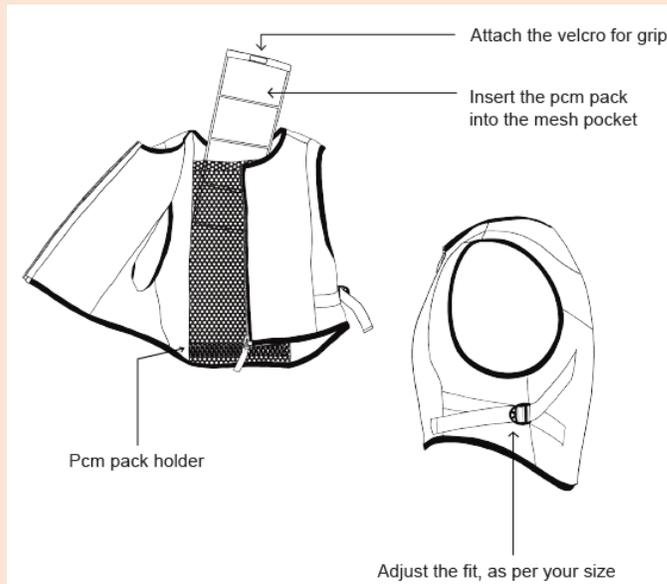
## FAN JACKETS

This cool jacket incorporates a battery operated fan, to keep your body temperature down.

Easy to assemble and easy to use, it is the coolest solution to the heat problem.

COLOUR	SIZE	FAN BATTERY	DESIGNED FOR TEMPERATURES	WORKING CONDITIONS	TIME DURATION
ORANGE	M/L/XL	12	40° C AND ABOVE	EXTREME	8 HOURS
GREEN	M/L/XL	12	40° C AND ABOVE	EXTREME	8 HOURS
GREY & BLUE	M/L/XL	5	30-40° C	MODERATE	8 HOURS

## HOW IT WORKS ?



## PCM- Phase Change Material

- Indigenous patent Technology from Pluss developed in our R&D lab.
- Heart of the Cooling Jacket which maintains the body temperature of 22°-25°

- PCM Pouch is first frozen in a Cooler /Freezer.(15-20 minutes Freezing time)
- Insert the frozen PCM Pouch inside the Vest(PCM Pack holder).
- Wear the vest and adjust the fit as per the body size.

- Wear the Fan Jacket Above the PCM vest.
- 2 nos. portable Fans are connected to a power bank which can be regulated at multiple speed levels..
- Fan circulates the air inside the jacket and instant cooling is experienced.

# MARKET COMPARISON

## CURRENT MARKET STATUS

Personal protection from burns, toxic chemicals hazards etc.

Purpose- Reflectors, Distinguish workers and working area

Complies with EHS(Environment, Health and Safety)

high Heat reduces working Efficiency

## OUR PRODUCT POSITIONED

Personal protection from **heat stress related fatigue**, burns, toxic chemicals hazards etc.

Purpose- **Cooling Comfort**, Reflectors, distinguish workers and working area, customized

Complies EHS and helps in strengthening **ESG(Environment, Social and Governance)** reporting which covers the social aspect

Prevents from Heat strokes and **enhances working efficiency**

## OUR USP

- Introducing PCM based FAN Jackets as pioneers.
- PCM technology is a patented product from PLUSS, developed in our R&D lab which enable us to be unique.
- High Market acceptability & need assessment validated within high temperature industries.

### Branding

- Create the Standard
- Long term branding recognition

### Relationship

- Builds a long-term relationship with our clients.
- Builds the trust

### Services

- Committed on producing high quality innovative products
- Assurance on timely deliveries

# OUR WORKING AREAS



CONSTRUCTIONS



STEEL/CEMENT/POWER



INFRA



AVIATION



WAREHOUSING



MINING

## OUR VALUE PROPOSITION

- At PLUSS our purpose is to use science and technology to help design and develop people-centric and climate-positive innovative clean technologies that enable us to meet the Sustainable Development Goals while empowering a circular economy.
- To be sustainable, we need to enable our markets and our products to be reused and remain in the economy for as long as possible as opposed to be used once and discarded. We are mindful of implementing this across industries by moving and redefining our products.
- We believe, leaving a better world for our future generations is as much our business as is driving innovation and economic opportunities.



# Manufacturing and R&D Facilities

**Manufacturing facility:** 78,000 sqft of manufacturing facility combining two locations – Hyderabad and Bawal, 14,000 sqft of R&D facility, 9000 sqft of corporate office space. 220 employees.

TUV Certified Manufacturing Facility



- ISO 9001:2018
- ISO 13485:2003

DSIR approved state-of-art R&D Facility



# Clientele



# Key Recognition



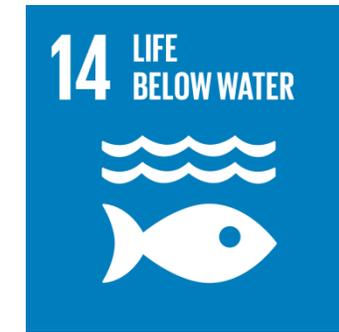
प्रौद्योगिकी विकास बोर्ड  
TECHNOLOGY DEVELOPMENT BOARD  
DEPARTMENT OF SCIENCE & TECHNOLOGY



# Pluss Products and Sustainable Development Goals



**7 AFFORDABLE AND CLEAN ENERGY**



*Pluss develops products with the idea of impacting Sustainable Development Goals*

# PLUSSTAINABLE

————— /plʌs'steɪnəb(ə)l/ —————

**adjective:** able to maintain the optimal rate or level to meet the needs of the present without compromising the needs of future generations, the **e PLUS way**.

Regards

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