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(71)Name of Applicant :  
**1)SWAMI VIVEKANANDA UNIVERSITY**  
 Address of Applicant :Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**Name of Applicant : NA**  
**Address of Applicant : NA**

(72)Name of Inventor :  
**1)SANIYA DE**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**2)PINTU GHOSH**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**3)Papai Mal**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**4)MR. ABHISHEK DHAR**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**5)MR. PROMIT KUMAR SAHA**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**6)DR. RITUPARNA MUKHERJEE**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**7)MR. TITAS KUMAR NAG**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**8)MRS. SUSMITA DHAR MUKHERJEE**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----  
**9)MR. SAURABH ADHIKARI**  
 Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----

(57) Abstract :  
 The Smart Weather Jacket is an innovative garment designed to enhance worker comfort and safety in extreme temperature environments. It features integrated pockets that accommodate interchangeable hot and cold bags, allowing the wearer to adapt to both hot and cold conditions. The jacket includes a user-friendly interface with switches for managing the thermal regulation bags and an LED strip powered by a battery to improve visibility in low-light conditions and facilitate rescue operations during emergencies. By combining practical thermal management with advanced safety features, the Smart Weather Jacket offers a versatile and eco-friendly solution for workers in diverse and demanding environments.

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