Annexure A

PU coated Nylon fabric 220 GSM Black specification
LF No.: 2101613973

S.No	Parameters	Requirement	Test Method
1.	Nature of coating	Polyurethane (PU)	Any suitable method including FTIR as per AATCC-20
2.	Nature of material Warp Weft	Nylon 6,6	IS 667:1981 or any suitable method
3.	Percentage Composition	100% Nylon 6,6	IS 2005:1988
4.	GSM of fabric	Min 220	IS :7016 (Part I)
5.	Breaking Strength of fabric (in Newton)	Warp – 2200 (min) Weft – 1600 (min)	IS :7016 (Part II) – 1981:2022
6.	Elongation in %	Warp – 30 (min) Weft – 30 (min)	IS :7016 (Part II) – 1981:2022
7.	Tearing strength of fabric (in Newton)	Warp – 285 (min) Weft – 245 (min)	IS :7016 (Part III) - 2023 Method A1
8.	Fastness to Light	5 or Better	ISO 105-B02-2014 (RA 2022)
9.	Type of Weave	Plain / Rip stop	Visual
10.	Resistance to Damage by flexing (One lakh cycle of flexing)	There should be no wrinkle, crack or flaking.	IS:7016 (Part IV) – 2023
11.	Resistance to low temperature (-30°C for 6 Hrs)	There should not be any change in stiffness value of fabric	IS:7016 (Part X) – 1981
12.	Colour fastness to washing change in shade staining of cloth	4 or Better 4 or Better	IS/ISO 105-C10 (RA 2021)

13.	Water repellence	80 min (ISO 3) (No penetration of water on back side	IS 390:1975 / ISO 4920
14.	Flame resistance Char length After flame time in Sec After glow time in Sec	 Less than 100mm Max 5 sec Nil	IS : 11871:1986. Method – A (RA – 2018)
15.	pH Value of aqueous extract	5-8	IS: 1390 : 2022
16.	Abrasion Resistance	10000 No of cycles required for rupture of one or more thread.	Martindale as per IS: 12673 ()Part-2) Using emery paper No 600 and weight- 200 gm on uncoated side

DD/R&D