

TEST FACILITIES IN CQA(M), KANPUR LAB**Appendix "A"**

Name of Estt with Address, Name of Nodal Officer and Contact No.	Sr No.	Test Facilities Available	Range of Test Eqpt.	Duration of Test	NABL Accreditation Status	Testing Charges in Rs.
	Paint RFU, Finishing , AD, Br/Spr Synthetic Enamel/ Matt/ War Equipments of various Shades/ Putty Carpenter/ Paint Remover					
CONTROLLER ATE OF QUALITY ASSURANCE (MATERIAL), DGQA COMPLEX, ASHOK PATH, CANTT. KANPUR- 208004 Shri B.S. Tomar, PScO Phone (O): 0512-2324436 Mobile: 8130992876	1	CONDITION & CONSISTENCY FOR PAINTS	--	30 Minutes	Non NABL	800.00
	2	EFFLUX TIME AT 30°C	Ford Cup No. 4	5 hrs.	NABL	800.00
	3	APPLICATION	--	30 Min.	Non NABL	434.10
	4	DRYING TIME	Environmental Chamber- 0 to 75°C & RH- 0 to 100%	5 Hrs.	NABL	900.00
	5	VOLATILE MATTER	Oven, Weighing Balance	4 hrs	NABL	450
	6	FINISH	Glossometer - 45° or 60°	2 Days.	NABL	1354.00
	7	GLOSS VALUE (SPECULAR GLOSS AT 60°)	Glossometer - 45° or 60°	2 Days	NABL	900.00
	8	FINENESS OF GRIND	Hegman Scale: 0-50 & 0-100 µm	30 Min.	NABL	900.00
	9	WET OPACITY	Cryptometer	40 Min.	NABL	1094.00
	10	COLOUR	--	48 Hrs.	NABL	800.00
	11	FLEXIBILITY & ADHESION	Bend Test Apparatus	7 Days.	NABL	900.00
	12	SCRATCH HARDNESS	Scratch Hardness Tester	7 Days.	NABL	900.00
	13	PROTECTION AGAINST CORROSION	Corrosion Cabinet: 42°-48°C RH- 100%	12 Days	NABL	5300.00
	14	ACCELERATED STORAGE STABILITY	Electric Oven: 0- 100°C	100 Hrs.	NABL	2400.00
	15	FLASH POINT (ABEL)	Abel Cup	2 Hrs.	NABL	900.00
	16	LEAD RESTRICTION	--	72 Hrs.	Non NABL	1100.00
	17	MASS IN KG/10L	Pycknometer:50ml	5 Hrs.	NABL	800.00
	18	RESISTANCE TO LUBE OIL	Oven: 0- 200°C	3 Days.	Non NABL	1876.00
	19	RESISTANCE TO PETROL-BENZOLE MIXTURE	Scratch Hardness Tester	8 Days.	NABL	3854.00
	20	WATER CONTENT, % BY	Dean Stark Apparatus: 5	4 Hrs.	NABL	900

		MASS	ml			
CONTROLLER ATE OF QUALITY ASSURANCE (MATERIAL), DGQA COMPLEX, ASHOK PATH, CANTT. KANPUR- 208004 Shri B.S. Tomar,SSO-I Phone (O): 0512-2324436 Mobile: 8130992876	21	RESISTANCE TO ALKALI	--	4 Days.	NABL	1100
	22	RESISTANCE TO SALT SPRAY	Salt Spray Apparatus	7 Days.	Non NABL	3848
	23	RESISTANCE TO WARM WATER	Oven :0-200°C	8 Days.	NABL	900
	24	RESISTANCE TO ACID	--	4 Days.	NABL	1100
	25	RESISTANCE TO HEAT (AFTER AIR DRYING FOR 48 HRS) EXCEPT WHITE	Oven: 0-200°C	3 Days.	NABL	1000
	26	NATURAL OUTDOOR WEATHERING	--	37 Days.	Non NABL	3617
	27	MARKING AND STENCELLING	--	1 Hrs	Non NABL	Under revision
	28	PRESSURE TEST	PRESSURE TEST apparatus	5 Hrs	Non NABL	Under revision
	29	DURABILITY	--	38 Days	Non NABL	Under revision
	30	PERCENTAGE OF PIGMENT	Centrifuge Machine: upto 4000 rpm	6 Hrs	Non NABL	Under revision
	31	FREEDOM OF OBJECTIONABLE IMPURITIES	--	1 Day	Non NABL	Under revision
	32	COMPATIBILITY WITH THINNER	--	1 Day	Non NABL	Under revision
	33	TITANIUM DIOXIDE	Electronic Balance: max.220g, Furnace: upto 1200°C	3 Days	Non NABL	7660
	34	TEST FOR BLUSHING & BLOOMING	--	20 Min.	Non NABL	Under revisoin
	35	BARIUM COMPOUND AS BASO ₄	--	720 Min.	Non NABL	6757.00
	36	ALKYD TEST	--	20 Min.	Non NABL	Under revision
	37	SUTABILITY FOR SPRAYING	--	20 Min.	Non NABL	Under revision
	38	NON VOLATILE VEHCLE % BY MASS	--	60 Min.	Non NABL	1000.00
	39	ESTIMATION OF ZINC CHROME % BY MASS	--	300 Min.	Non NABL	7800
	40	RESISTANCE TO KEROSENE OIL	--	30 Min.	Non NABL	537.00

CONTROLLER ATE OF QUALITY ASSURANCE (MATERIAL), DGQA COMPLEX, ASHOK PATH, CANTT. KANPUR- 208004 Shri B.S. Tomar,SSO-I Phone (O): 0512-2324436 Mobile: 8130992876	41	RESISTANCE TO ARTIFICIAL SEA WATER	--	180 Min.	Non NABL	1200.00
	42	RESISTANCE TO HOT WATER	--	45 Min.	Non NABL	900.00
	43	ASH CONTENT	Furnace: upto 1200°C	05 hrs	Non NABL	Under Revision
	44	pH OF THE SAMPLE	pH meter: 0 to 14	01 hrs	Non NABL	Under Revision
	45	ACID VALUE	Electronic Balance: max.220g	02 hrs	Non NABL	Under Revision
	46	SAPONIFICATION VALUE	Electronic Balance: max.220g	02 hrs	Non NABL	Under Revision
	47	CALCIUM CARBONATE FOR PUTTY & PAINTS	Electronic Balance: max.320g	2 DAYS	Non NABL	Under Revision
	48	EFFICIENCY FOR PAINT REMOVER	--	2 HR	Non NABL	Under Revision
	49	CONSISTENCY FOR PAINT REMOVER	--	90 MINUTE	Non NABL	Under Revision
	50	% NON VOLATILE MATTER FOR PAINT REMOVER	--	3 HRS	Non NABL	Under Revision
	51	FREEDOM FROM ALKALINITY & ACIDITY FOR PAINT REMOVER	--	90 MINUTE	Non NABL	Under Revision
	52	FORM & CONDITION FOR PAINT REMOVER	--	30 MINUTE	Non NABL	Under Revision
	53	MARKING PROPERTY	--	50 Minute	Non NABL	Under Revision
	54	LEAFING VALUE FOR ALUMINIUM PAINT	--	5 Hrs	Non NABL	Under Revision
	55	ZINC CHROME % BY MASS	ELECTRONIC BALANCE	48 Hrs	Non NABL	Under Revision
	56	CaCO ₃ IN PIGMENT % BY MASS	Electronic Balance: max.220g	240 Min.	Non NABL	Under Revision
	57	FORM AND CONDITION FOR PUTTY	--	30 Min.	Non NABL	448.00
	58	RESIDUE ON SIEVE % BY WEIGHT	SIEVE Shaker	1 Hrs	Non NABL	2286.00
	59	SETTING POINT FOR PUTTY	--	72 Hrs	Non NABL	663.00
	60	TEST FOR STAINING	Oven (MAX 200° C)	6 Hrs	Non NABL	4682.00

CONTROLLER ATE OF QUALITY ASSURANCE (MATERIAL), DGQA COMPLEX, ASHOK PATH, CANTT. KANPUR- 208004 Shri B.S. Tomar, SSO-I Phone (O): 0512-2324436 Mobile: 8130992876	LIP SALVE					
	61	MELTING RANGE, °C FOR LIP SALVE	Hot Plate upto 100°C	01 HR	Non NABL	1338.75
	62	PEROXIDE VALUE	--	4 Hrs.	Non NABL	Under Revision
	63	STABILITY of LIP SALVE	--	06 HOURS	Non NABL	2677.50
	64	ARSENIC PARTS/MILLION MAX. OF LIP SALVE	Electronic Balance: max.320g	01 HRS	Non NABL	1476.22
	65	HEAVY METALS (AS PB) PARTS/MILLION , MAX OF LIP SALVE	Electronic Balance: max.320g	2 HRS	Non NABL	945.51
	66	CONSISTENCY TEST	Gudzet Apparatus	16 Hrs	Non NABL	Under Revision
	DAFC					
	67	NON VOLATILE MATTER % BY MASS	--	60 Min.	Non NABL	2895.00
	68	POUR POINT (FOR DAFC30/50)	POUR POINT apparatus	04 hrs	Non NABL	3880.00
	69	SPECIFIC GRAVITY (FOR DAFC)	Electronic Balance: max.220g	02 hrs	Non NABL	1443.00
	70	KINEMATIC VISCOSITY	Water Bath: upto 80°C	02 hrs	Non NABL	1808.00
	71	ASH CONTENT% by Wt.	Furnace: upto 1200°C	05 hrs	Non NABL	2238.00
	72	pH OF THE SAMPLE DAFC	pH meter: 0 to 14	01 hrs	Non NABL	895.00
	73	REFRACTIVE INDEX FOR DAFC	Refractrometer: 1.3 -1.7	01 hrs	Non NABL	901.00
	74	SULPHATES TEST FOR DAFC	Electronic Balance: max.220g	01 day	Non NABL	1435.00
	75	CHLORIDES TEST FOR DAFC	Electronic Balance: max.220g	02 hrs	Non NABL	2125.00
	76	CORROSION RESISTANT TEST FOR DAFC	Electronic Balance: max.220g	30 days	Non NABL	3417.00
	77	FOAMING TENDENCY	--	1 Hrs	Non NABL	895.00
	URF					
	78	KINEMATIC VISCOSITY	Water Bath: upto 80°C	02 hrs	Non NABL	1808.00
	79	ASH CONTENT% by Wt.	Furnace: upto 1200°C	05 hrs	Non NABL	2238.00
	80	SODIUM NITRATE %	Electronic Balance: max.320g	04 hrs	NABL	1873.00
	81	DI SODIUM HYDROGEN PHOSPHATE FOR URF	Electronic Balance: max.320g	4 HRS	Non NABL	3696.00

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	83	MISCIBILITY WATER FOR URF		30 MIN	Non NABL	466.00
	84	RESISTANCE TO CORROSION for URF	Electronic Balance: max.320g, Oven:0-200°C	30 DAYS	Non NABL	2237.00
	85	ETHYL ALCOHOL % FOR URF	Electronic Balance: max.320g	80 HRS	Non NABL	2685.00
	86	GLYCEROL CONTENT (URF)	Electronic Balance: max.220g	04 hrs	Non NABL	2482.00
	DRUGS					
	87	IDENTIFICATION (B) FOR TABLET ALBENDAZOLE	UV-VIS spectrophotometer	01 Hr	NABL	Under Revision
	88	ASSAY FOR TABLET ALBENDAZOLE	UV-VIS spectrophotometer	2 HRS	NABL	Under Revision
	89	DISINTEGRATION OF TABLETS (TINIDAZOLE)	DT apparatus: upto 42°C	02 Hrs approx	NABL	Under Revision
	90	ASSAY FOR TABLET ATENOLOL	UV-VIS spectrophotometer	2 HRS	Non NABL	Under Revision
	91	ASSAY FOR TABLET FRUSEMIDE	UV-VIS spectrophotometer	2 HRS	NABL	Under Revision
	92	ASSAY FOR TABLET FURAZOLIDONE	UV-VIS spectrophotometer	3 HRS	Non NABL	Under Revision
	93	ASSAY FOR TABLET PARACETAMOL	UV-VIS spectrophotometer	3 HRS	NABL	Under Revision
	94	ASSAY FOR TABLET TINIDAZOLE	UV-VIS spectrophotometer	3 HRS	NABL	Under Revision
	95	ASSAY FOR TABLET ASCORBIC ACID	BY TITRATION METHOD	3 HRS	Non NABL	Under Revision
	96	IDENTIFICATION (B) FOR TABLET ATENOLOL	UV-VIS spectrophotometer	01 Hr	Non NABL	Under Revision
	97	IDENTIFICATION (A&B) FOR TABLET FRUSEMIDE	A- UV-VIS B-Colour Development	01 Hr 3 HRS	YES (FOR A ONLY)	Under Revision
	98	IDENTIFICATION FOR TABLET FURAZOLIDONE	Colour Development	3 Hrs	Non NABL	Under Revision
	99	IDENTIFICATION (B) FOR TABLET PARACETAMOL	UV-VIS spectrophotometer	3 HRS	NABL	Under Revision
	100	IDENTIFICATION (A & B) FOR TABLET TINIDAZOLE	UV-VIS spectrophotometer	3 HRS	NABL (FOR A ONLY)	Under Revision
	101	IDENTIFICATION FOR TABLET	Colour Development	3 Hrs	Non NABL	Under Revision

		ASCORBIC ACID				
	102	UNIFORMITY OF WEIGHT OF TABLET (AVERAGE WEIGH)	Electronic Balance: max.320g	03 hrs	NABL	Under Revision
	THINNERS					
	103	SPOT TEST FOR THINNER ANTICHILL	--	30 Min	Non NABL	Under Revision
	104	ODOUR FOR THINNER ANTICHILL	--	30 Min	Non NABL	Under Revision
	105	ACIDITY FOR THINNER ANTICHILL	Electronic Balance: max.320g	2 Hrs	Non NABL	Under Revision
	106	RESIDUE ON EVAPORATION	Electronic Balance: max.320g	36 Hrs	Non NABL	Under Revision
	107	COPPER CORROSION	Oven: 0-200°C	24 hrs	Non NABL	Under Revision
	108	HYDROCARBON CONTENT	Electronic Balance: max.320g	24 Hrs	Non NABL	Under Revision
	109	ESTER CONTENT	Electronic Balance	6 Hrs	Non NABL	Under Revision
	110	DISTILATION TEST	Distillation Apparatus	2 Hrs	Non NABL	Under Revision
CONTROLLER ATE OF QUALITY ASSURANCE (MATERIAL), DGQA COMPLEX, ASHOK PATH, CANTT. KANPUR- 208004 Shri B.S. Tomar, SSO-I Phone (O): 0512-2324436 Mobile: 8130992876	111	COLOUR	--	30 min	Non NABL	Under Revision
	112	SPECIFIC GRAVITY	Hygrometer	30 Min	Non NABL	Under Revision
	PYETHRUM					
	113	IDENTITY PYRETHRUM EXTRACTS 2%	Electronic Balance: max.320g	6 HRS	Non NABL	Under Revision
	114	COLOUR AND ODOUR FOR PYRETHRUM EXTRACTS 2%	--	30 MIN	Non NABL	Under Revision
	115	TOTAL PYRETHRUM CONTENT	Electronic Balance: max.320g	2 DAYS	Non NABL	Under Revision
	MALATHION					
	116	DESCRIPTION FOR MALATHION	--	30 M IN	Non NABL	Under Revision
	117	COLD TEST FOR MALATHION	--	2 HRS	Non NABL	Under Revision
	118	EMULSION STABILITY FOR MALATHION	Water Bath: upto 80°C	8 HRS	Non NABL	Under Revision
	119	MALATHION CONTENT	Electronic Balance: max.320g, UV-VIS spectrometer:185-385nm & Visible 385-780nm,	8 HRS	Non NABL	Under Revision

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	120	AVAILABLE CHLORINE (% BY MASS) FOR BLEACHING POWDER STABLE	Electronic Balance: max.320g	2 HRS	Non NABL	Under Revision
	121	DETERMINATION OF STABILITY LOSS OF CHLORINE FOR BLEACHING POWDER STABLE	Electronic Balance: max.320g	4 HRS	Non NABL	Under Revision
	122	DETERMINATION OF MOISTURE FOR BLEACHING POWDER STABLE	Electronic Balance: max.320g, Vacuum Pump:upto760 mm Hg	24 HRS	Non NABL	Under Revision
	123	DETERMINATION OF PARTICLE SIZE FOR BLEACHING POWDER STABLE	Electronic Balance: max.320g	15 Min.	Non NABL	Under Revision
	CHARGES SILICON METAL POWDER/GRANULES					
	124	DETERMINATION OF SILICON BY GRAVIMETRIC METHOD FOR FERRO SILICON	Electronic Balance: max.320g	12 Hours	Non NABL	Under Revision
	125	SIEVE TEST /PARTICLE SIZE	ELECTRONIC BALANCE, SIEVE	2 Hrs	Non NABL	Under Revision
	NAPHTHALENE BALLS					
	126	TESTS FOR STAINING NAPHTHALENE BALLS	OVEN:0-200°C	5 hrs	Non NABL	Under Revision
	127	CRYSTALLIZING POINT °C, NAPHTHALENE BALLS	CRYSTALLIZING POINT APPARATUS	2 hrs	Non NABL	Under Revision
	128	BALLS GRADE-I ACID WASH TEST FOR NAPHTHALENE	ELECTRONIC BALANCE: MAX.320G	2 hrs	Non NABL	Under Revision
	129	MATTER INSOLUBLE IN BENZENE, % BY MASS, MAX	ELECTRONIC BALANCE: MAX.320G, OVEN:0-200°C	1 hr	Non NABL	Under Revision
	130	NON-VOLATILE MATTER AT 160°C, % BY MASS, MAX	ELECTRONIC BALANCE: MAX.320G, OVEN:0-200°C	2 hrs	Non NABL	Under Revision
	CHALK TAILOR					
	131	CONDITION	--	30 Min	Non NABL	Under Revision
	132	LOSS ON HEATING	OVEN	4 Hrs	Non NABL	Under Revision
	133	MARKING PROPERTIES	--	50 Min	Non NABL	Under Revision
	134	COLOUR	--	30 Min	Non NABL	Under Revision

CONTROLLER						
ATE OF QUALITY ASSURANCE (MATERIAL), DGQA COMPLEX, ASHOK PATH, CANTT. KANPUR- 208004 Shri B.S. Tomar, SSO-I Phone (O): 0512-2324436 Mobile: 8130992876	ADHESIVE AND PADDING GLUE					
	135	SOLID CONTENT	BALANCE		Non NABL	Under Revision
	136	ASH CONTENT	FURNACE	--	Non NABL	Under Revision
	137	PH VALUE	PH METER	30 Min	Non NABL	Under Revision
	WATER FOR STORAGE BATTERY					
	138	PH VALUE	PH METER	30 Min	Non NABL	Under Revision
	COMPOUND JOINTING					
	139	DRYING TIME	ENVIRONMENTAL CHAMBER	2 Hrs	Non NABL	Under Revision
	140	SOLID CONTENT	BALANCE, OVEN	4 Hrs	Non NABL	Under Revision
	141	RESISTANCE TO HOT MINERAL LUBRICATING OIL	OVEN	72 Hrs	Non NABL	Under Revision

TEST FACILITIES AT CQA (PP), KANPUR LABORATORY

NAME OF THE ESTT. WITH ADDRESS, NAME OF NODAL OFFICER AND CONTACT NO.	SI. NO.	TESTING FACILITIES AVAILABLE	RANGE OF TEST EQUIPMENT	DURATION OF TEST	NABL STATUS	TESTING CHARGES
Controllerate of Quality Assurance (Petroleum products) Post Box No. 372, Kanpur-208004. S. Nagamanickam SSO-II 0512-2324830	1.	Visual examination	As specified in referred specification	30 Min.	Non NABL	Rs. 652.00
	2.	Drop point by IS 1448 P-52 : 1971 (R/A -2007) / IP-132/ASTM-D566	Ambient to 300 ⁰ C	30 Min.	Non NABL	Rs.4294.00
	3.	Consistency of the grease in terms of Penetration No.IS 1448 P-60: 1994 (RA- 2006) , P-92 : 1979 (R/A-2010).	1 to 400 units	04 Hrs.	Non NABL	Rs. 2906.00
	4.	Free Acidity as Oleic Acid (% by Mass) IS 1448 P-53 : 1979 (RA-2007) and Free Alkalinity as (% by Mass) IS 1448 P-53 : 1979 (R/A-2007).	0.00 to 20.00%	06 Hrs.	Non NABL	Rs. 8432.00
	5.	Copper Strip Corrosion byIS 1448 P-51 : 1963 (RA-2008).	Qualitative test	26 Hrs.	Non NABL	Rs.2039.00
	6.	Heat Stability by IS 1448 P-62 : 1974 (RA-2008)	Qualitative test	03 Hrs.	Non NABL	Rs. 2152.00
	7.	Oil Separation/ Thermal Stability byIS 1448 P-89 : 1979 (R/A-2007).	0.002 to 10.00%	32 Hrs.	Non NABL	Rs. 2152.00
	8.	Evaporation Loss by IS 1448 P-61 : 1974 (RA-2008)	0.1 to 50.00%	32 Hrs.	Non NABL	Rs. 2209.00
	9.	Flash Point (COC) byIS 1448 P: 69 : 1969(R/A-2013)	79 to 398 ⁰ C	3 Hrs.	Non NABL	Rs. 2930.00
	10.	Kinematics Viscosity @at 100 ⁰ C by IS 1448 P:25	1.0 to 45.0 cst	04 Hrs.	Non NABL	Rs. 4496.00
	11.	Kinematics Viscosity @ at 40 ⁰ C by IS 1448 P:25	1.0 to 440.0 cst	04 Hrs.	Non NABL	Rs. 2246.00
	12.	Kinematics Viscosity @ at 60 ⁰ C byIS 1448 P:25	1.0 to 440.0 cst	04 Hrs.	Non NABL	Rs. 2246.00
	13.	Kinematics Viscosity @ at 37.8 ⁰ C by IS 1448 P:25	1.0 to 440.0 cst	04 Hrs.	Non NABL	Rs. 2246.00
	14.	Viscosity IndexIS 1448 P:56 : 1980(RA-2013)	Calculated from KV	30 Min.	Non NABL	Rs. 406.00

	15.	Sap Value as mg KOH/g of sample IS 1448 P: 55 : 2004 (RA-2010)	2.0 to 70.0	02 Hrs.	Non NABL	Rs. 8167.00
	16.	pH values by JSS 9150-11:2019 (Rev2 Appendix -'B')	1.0 to 14.0	01 Hrs.	Non NABL	Rs. 3600.00
	17.	Oleic acid, % by mass by JSS 9150-11:2019 (Rev2) Appendix -'A' and Triethanolamine, % by mass by JSS 9150-11:2019, Appendix -'A'	5.0 to 25.0	04 Hrs.	Non NABL	Rs. 6409.00
	18.	Copper Strip Corrosion by IS 1448 P-15 : 2004 (RA-2010).	Qualitative test	02 hrs	Non NABL	Rs. 2039.00
	19.	Emulsion Characteristics by IS:1448 P-91:1979(RA2007)	Qualitative test	02 hrs	Non NABL	Rs.3046.00
	20.	Flash Point (PMC) by IS 1448 P: 21: 2012	48 to 200 ⁰ C	03 hrs	Non NABL	Rs.3007.00
	21.	Ash (% by mass) by IS:1448 P-4:1984(RA 2007)	0.001 to 5.0 %	06 hrs	Non NABL	Rs.5105.00
	22.	Sulphated ash (% by mass) by IS:1448 P-4:1984 (RA 2007)	0.001 to 5.0 %	06 hrs	Non NABL	Rs.5121.00
	23.	Equilibrium Reflux boiling Point by IS:8654, Appendix A	190 ⁰ C to 300 ⁰ C	02 hrs	Non NABL	Rs. 4294.00
	24.	Distillation by IS:1448 P-18	0 ⁰ C to 400 ⁰ C	01 hrs	Non NABL	Rs.2789.00
	25.	Water Content by IS:1448 P-42	1.0 % Max	02 hrs	Non NABL	Rs. 3217.00
	26.	Density by IS:1448 P-16 & 32	0.700 to 0.999 gm/cc	02 hrs	Non NABL	Rs. 1778
	27.	Penetration Unworked by IS:1448, P-10	1 to 400 Units	04 hrs	Non NABL	Rs. 2906.00
	28.	Pour Point in ⁰ C by IS:1448, P-10	Up to(-) 30 ⁰ C	08 hrs	Non NABL	Rs. 7845.00
	29.	Cloud point in ⁰ C by IS:1448, P-10	Up to(-) 30 ⁰ C	08 hrs	Non NABL	RS. 7845.00

TESTING FACILITIES IN DGQA LABS

(A) TEXTILE MECHANICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test (minute)	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
CONTROLLERATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING), KANPUR. Col Sanjeev Thakur DC (Lab)	1.	Determination of mass per unit length and mass per unit area of Coated & Treated Fabric	10 to 500g	45	Yes	668
	2.	Determination of Breaking Strength Fabric	40 N to 8000 N	90	Yes	1040
	3.	Determination of Breaking Strength of Coated & Treated Fabric	40 N to 8000 N	90	Yes	1040
	4.	Determination of thread per unit length	10mm, 20mm, 25mm	20	Yes	405
	5.	Determination of Wales/Courses	10mm, 20mm, 25mm	20	Yes	405
	6.	Determination of Diamentional change of woven fabric(other than wool)	± 30%	for shrinkage 2 hrs 30 min & for drying 3 day	Yes	685
	7.	Determination of Diamentional change of fabric(containg wool)	± 30%	for shrinkage 2 hrs 30 min & for drying 3 day	Yes	685
	8.	Determination of Tear Strength test (Elmendorf)	1600g, 3200g, 6400g	50	Yes	613
	9.	Determination of water repellance of fabric by BWR test	----	30	Yes	535
	10.	Determination of water repellance of fabric by Low Pressure Head Test	5 to 90 cm water column with 100 cm ²	60	Yes	353

Note: Testing charges are excluding GST/applicable Taxes

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(A) TEXTILE MECHANICAL

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CONTROLLERATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING), KANPUR. Col Sanjeev Thakur DC (Lab)	11.	Determination of water repellance of fabric by Cone test	1 ml to 400 ml	24 hrs	Yes	353
	12.	Determination of water repellance of fabric by Spray Rating Test	Rating 1 to 100	20	Yes	263
	13.	Determination of Width	upto 1.5 mtr	10	Yes	223
	14.	Determination of Thickness of Fabric	0.1 mm to 20 mm	20	Yes	405
	15.	Determination of Breaking Strength of Yarn	Upto 2 kg	60	Yes	1128
	16.	Determination of Breaking Load of Sewing Thread	Upto 200 N	60	Yes	1128
	17.	Determination of Mass per unit length and mass per unit area of fabric	10 to 500 g	45	Yes	520
	18.	Determination of Mass of made-up store	Upto 30 kg	10	No	223
	19.	Determination of Base & Bias	10mm, 20mm, 25mm	20	No	405
	20.	Determination of Tearing Strength test	6 N to 500 N	90	No	1040
	21.	Determination of High Pressure Head test	5 to 90 cm water column with 200 mm Dia	90	No	353
	22.	Determination of Wetability Test	----	40	No	353
	23.	Determination of Felting Shrinkage	± 10%	90	No	488
	24.	Determination of Weave	----	10	No	223
	25.	Determination of Crease Recovery	180 deg	260	No	4463
	26.	Determination of Pilling test (Pilling box)	18000cycle & Rating 1 to 5	7.30hrs	No	430

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(A) TEXTILE MECHANICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test (minute)	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
CONTROLLERATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING), KANPUR. Col Sanjeev Thakur DC (Lab)	27.	Determination of Low Temperature Test	upto -70 °C	7.00hrs	Yes	353
	28.	Determination of Ageing test	upto 200 °C	7 days	No	263
	29.	Determination of Flexing test	uptp 100000 cycle	7.30 hrs	No	445
	30.	Determination of Blocking test	upto 70 °C	25	No	305
	31.	Determination of diamentional change due to Heat	± 20%	1 hrs	No	223
	32.	Determination of Separation of PU film	----	15	No	223
	33.	Determination of Count of Yarn	----	15	No	313
	34.	Determination of Length/Kg of Sewing thread	----	25	No	353
	35.	Determination of Elongating at break %	----	15	No	223
	36.	Determination of Direction of Twist	----	15	No	223
	37.	Determination of Turns/mtr	----	10	No	223
	38.	Determination of Construction of sewing thread	----	10	No	223
	39.	Determination of Dry Shrinkage	± 5%	60	No	353
	40.	Determination of Boiling Shrinkage %	± 5%	60	No	353
	41.	Determination of Extension under load	----	15	No	263
	42.	Determination of Tenacity	----	1 hrs	No	708
	43.	Determination of Linear Density	----	15	No	313
	44.	Determination of Dia	150mm	15	No	223
	45.	Determination of Pitch	---	15	No	223
	46.	Determination of Length of 10 lays	-----	15	No	223
	47.	Determination of Core ends	-----	15	No	223
	48.	Determination of No of Plaits	----	15	No	223

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(A) TEXTILE MECHANICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test (minute)	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
CONTROLLERATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING), KANPUR. Col Sanjeev Thakur DC (Lab)	49.	Determination of Elongation %	----	15	No	223
	50.	Determination of Sheath ends	----	15	No	223
	51.	Determination of Reciprocating Movement of PSF	upto 5000 cycle	2 hrs	No	405
	52.	Determination of Abrasion of PSF	Upto 500 cycle	1 hrs	No	223
	53.	Determination of Abrasion under Heat of PSF	Upto 500 cycle	1 hrs	No	223
	54.	Determination of Cross wise strength of PSF	upto 250 kgf	10	No	223
	55.	Determination of Fold Over test of PSF	upto 250 kgf	10	No	223
	56.	Determination of Security attachment top stop of PSF	upto 250 kgf	10	No	223
	57.	Determination of Security attachment bottom stop of PSF	upto 250 kgf	10	No	223
	58.	Determination of Security attachment retainer to longitudinal load of PSF	upto 250 kgf	10	No	223
	59.	Determination of Security attachment retainer to lateral load of PSF	upto 250 kgf	10	No	223
	60.	Determination of Security attachment puller to slider of PSF	upto 250 kgf	10	No	180
	61.	Determination of Security of slider lock holding of PSF	upto 250 kgf	10	No	223
	62.	Determination of Dimension of PSF	----	30	No	585
	63.	Determination of Peel Strength Test before Endurance	uptu 250 kgf	45	No	353
	64.	Determination of Peel Strength Test after Endurance	uptu 250 kgf	45	No	353

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(A) TEXTILE MECHANICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
CONTROLLERATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING), KANPUR. Col Sanjeev Thakur DC (Lab)	65.	Determination of Shear Strength Test before Endurance	uptu 250 kgf	3 hrs	No	353
	66.	Determination of Shear Strength Test after Endurance	uptu 250 kgf	3 hrs	No	353
	67.	Determination of Dot Tear Test	uptu 250 kgf	25	No	353
	68.	Determination of Fibre Dia	125X, 250X, 500X	120 min/slide	No	1520
	69.	Determination of Total No. of Ends in full width	----	10	No	223
	70.	Determination of Breaking Strength of Cordages / Rope	Upto 4000 Kgf	25	No	353
	71.	Determination of Sag Angle Test	----	15	No	313
	72.	Determination of Mass/mtr of Cordages / Rope/Tapes	----	20	No	313
	73.	Determination of No. of Needles	----	15	No	313
	74.	Determination of Buoyancy test of Kapok	14 to 19	25	No	305
	75.	Determination of impurities of Kapok	----	60	No	1085

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(B) TEXTILE CHEMICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
CONTROLLERATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING), KANPUR. Col Sanjeev Thakur DC (Lab)	1.	pH Value –IS: 1390-1983(Cold Method)	0-14	180 Minutes	Yes	1520
	2.	Scouring Loss – IS : 1383-1977 (Mild Method)		2 days	Yes	1793
	3.	% WSM – IS : 3456 – 1966	—	2 fays	Yes	1528
	4.	% Ash Content – IS : 199 – 1989	700-800 °C	2 Days	Yes	895
	5(a)	Identification Of Textile Fiber – IS : 667-1981 (Single Fiber)	--	1 Day	Yes	543
	5 (b)	Identification Of Textile Fiber – IS : 667 – 1981 (Binary Fiber)	--	2 Days	Yes	1085
	5 (c)	Identification Of Textile Fiber – IS : 667 – 1981 (Tertiary Fiber)	--	4 Days	Yes	2170
	6.	Composition / Quantitative Chemical Analysis% - IS : 3416 - 1988 Mixtures Of Polyester Fiber with Cotton & Regenerated		3 Days	Yes	2238
	7.	Color Fastness Of Textile Materials to Washing IS/ISO 105-C10 : 2010 Test A(1) or IS : 687 - 79 RA 1999 Test 1(A)	Temp 40-95 °C	2 Days	Yes	793
	8.	Color Fastness Of Textile Materials to Washing IS/ISO 105-C10 : 2010 Test B(2) or IS : 3361 - 79 RA 1999 Test 2(B)	Temp 40-95 °C	1 Day	Yes	793
	9.	Color Fastness Of Textile Materials to Washing IS/ISO 105-C10 : 2010 Test C(3) or IS : 764 - 79 RA 2003 Test 3(C)	Temp 40-95 °C	1 Day	Yes	973
	10.	Color Fastness Of Textile Materials to Washing IS/ISO 105-C10 : 2010 Test D(4) or IS : 765 - 79 RA 2003 Test 4(D)	Temp 40-95 °C	1 Day	Yes	973
	11.	Color Fastness Of Textile Materials to Washing IS/ISO 105-C10 : 2010 Test E(5) or IS : 3417 - 79 RA 2003 Test 5(E)	Temp 40-95 °C	1 Day	Yes	1335

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(B) TEXTILE CHEMICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
CONTROLLERATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING), KANPUR. Col Sanjeev Thakur DC (Lab)	12 (a)	Determination of Color Fastness of Textile Materials to Artificial Light (Xenon Lamp) IS/ISO 105-B02-2014 & IS : 2454 : 1985 RA (For Rating 1-3)	---	32 Hrs	Yes	2170
	12 (b)	Determination of Color Fastness of Textile Materials to Artificial Light (Xenon Lamp) IS/ISO 105-B02-2014 & IS : 2454 : 1985 RA (For Rating 4)	----	50 Hrs	Yes	2530
	12 (c)	Determination of Color Fastness of Textile Materials to Artificial Light(Xenon Lamp) IS : 2454 : 1985 RA (For Rating 5)	----	74 Hrs	Yes	2893
	12 (d)	Determination of Color Fastness of Textile Materials to Artificial Light (Xenon Lamp) IS : 2454 : 1985 RA (For Rating 6)	---	100 Hrs	Yes	3615
	13	Perspiration - IS : 971-1983	Rating 1 to 5	1 Day	Yes	1335
	14	Sea Water - IS : 690 - 1988	Rating 1 to 5	1 Day	Yes	1335
	15	Colour Fastness to Water - IS/ISO-105-E01-2013	Rating 1 to 5	1 Day	Yes	1335
	16	Rubbing – IS : 766 – 1988	Rating 1 to 5	1 Day	Yes	618
	17	% Oil Content IS : 2969 – 1989 RA 2016	0.1 to 10 %	1 Day	Yes	1250
	18	Composition / Quantitative Chemical Analysis % - IS:2006-1988 Mixtures Of Protein Fibers with Certain other Non Protein Fibers	1 to 100 %	2 Days	Yes	2238
	19	Bleaching - IS : 762 - 1988	Rating 1 to 5	1 Day	No	973
	20	Dry Cleaning – IS : 4802 – 1988	Rating 1 to 5	1 Day	No	793

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(B) TEXTILE CHEMICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
	21	Composition / Quantitative Chemical Analysis % - IS:1889-Part IV – 1979 Mixtures Of Regenerated Cellulose Fiber with Cotton	1 to 100 %	2 Days	No	2420
	22	Composition / Quantitative Chemical Analysis % - IS:3421- Binary Mixtures Of Nylon 6 or 66 r with Certain other fibres	1 to 100 %	2 Days	No	2238
	23	Composition / Quantitative Chemical Analysis % - IS:2005-1988 Binary Mixtures Of Nylon 6 or 66 r with Certain other fibres	1 to 100 %	2 Days	No	2238
	24	% Cu Content – CQA (T&C) Schedule No.G/16022/TC-9B June 1974	0.1 to 3.0 %	2 Days	No	2795
	25	% Zn Content – CQA (T&C) Schedule No. G/16022/TC-9B June 1974	0.1 to 3.0 %	2 Days	No	3335
	26	Proofing Content (%) in Special Proofed Canvas and Duck – IS : 6803-1972	0.1 to 30 %	3 Days	No	1210
	27	% Cr Content IS : 4655 – 1968	0.1 to 3.0 %	3 Days	No	4463
	28	% CL Content – IS : 4202 – 1967	0.1 to 3.0 %	2 Days	No	2295
	29	% Sulphate Content – IS : 4203 – 1967	0.1 to 3.0 %	2 Days	No	2295
	30	Barium Activity Number – IS : 1689 – 1973	---	2 Days	No	3295
	31	Residual Starch – IS : 1968 – 1961	0.1 to 3.0 %	2 Days	No	3018

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(B) TEXTILE CHEMICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
	32	Colour Fastness to Organic solvent IS : 688-1988	Rating 1 to 5	2 Days	No	793
	33	% Iron Content IS : 4655-1968 (RA 2004)	0.1 to 3.0 %	2 Days	No	793
	34	Nature of Dye IS : 4472 (PART I, II & III)	----	1 Day	No	938
	35	Benzyl- methy Soluble Matter IS : 5152-1961	0.1 to 5.0 %	1 day	No	1250
	36	Nature of Coating (Polyurethane), DMSRDE/T&GS/89/377 (d)	----	4 Hrs	No	625
	37	Amount of Coating , IS : 7016	1 to 30 %	1 day	No	1695
	38	Hot pressing, IS : 689 -1988, RA 2009	Rating 1 to 5	2 hrs	No	793
	39	Leveling Test, IND/TC/0048(g) Appendix B	Rating 1 to 5	6 hrs	No	1155
	40	Hydro Test , IND/TC/0048(g) Appendix C	Rating 1 to 5	6 hrs	No	1155
	41	Chlorite Test, IND/TC/0048(g) Appendix D	Rating 1 to 5	6hrs	No	1155
	42	Conductivity of Aqueous and orgnic extrxt of Tex material IS: 4420-1967	1 to 1000 Micro S/cm	6 hrs	No	793
	43	Flammablity Test IS: 11871	----	1 day	No	973
	44	Solent solube matter (Ether) IS : 4390-2001	0.1 to 5.0 %	1 day	No	1335

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(B) TEXTILE CHEMICAL

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
	45	% Moisture Content , IS : 199-1989	1 to 20 %	1 day	No	848
	46	Estimation of Fatty Matter, IS : 199-1989	0.1 to 5.0 %	1 day	No	1335
	47	Loss in Mass, IS; 2360-1977 (RA 2013)	0.1 to 5.0 %	1 day	No	1335
	48	Wool content, IS; 8476-1977	upto 30 %	8 hrs	No	1335

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(C) LEATHER,RUBBER AND FOOTWEAR (MECHANICAL &CHEMICAL)

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test (Days)	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
	1	Determination of pH of Water Soluble Matter	0 to 14	05 Days	No	978
	2	Determination of (%) Volatile Matter	---	05 Days	Yes	528
	3	Determination of(%) solvent Extractable Matter	---	05 Days	Yes	708
	4	Determination of (%) Moisture Content	---	05 Days	No	528
	5	Determination of (%) Total Ash of all type of Leather	---	05 Days	Yes	708
	6	Determination of water Soluble Matter in all type Leather	---	05 Days	No	1430
	7	Determination of(%) Sulphated Ash of water Soluble Matter in all type Leather	---	06 Days	No	1703
	8	Determination of water Insoluble Ash in all type Leather	---	06 Days	No	2410
	9	Determination of Nitrogen and Hide Substance in all type Leather	---	05 Days	No	988
	10	Determination of Bound Organic and Degree of Tanned Leather	---	07 Days	No	6065
	11	Determination of (%) Chromic Oxide Content	---	04 Days	Yes	798
	12	Determination of Shape Retention of Toe-Cap of Boot Ankle Leather	0 to 300 mm	04 Days	No	3258
	13	Determination of Thickness of Leather Test Piece	0 to 10 mm	03 Days	Yes	223
	14	Determination of Hardness of Vulcanized Rubber (original only)	0 to 100 shore A	02 Days	No	190
	15	Determination of Hardness of Vulcanized Rubber (original and Aged)	0 to 100 shore A	10 Days	No	390
	16	Determination of (%) Rubber Hydrocarbon	---	04 Days	Yes	1155

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(C) LEATHER, RUBBER AND FOOTWEAR (MECHANICAL & CHEMICAL)

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test (Days)	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
	17	Determination of (%) Ash content of Rubber Product	---	02 Days	Yes	353
	18	Determination of (%) Carbon Black of Rubber Product	---	07 Days	Yes	1605
	19	Determination of (%) Acetone –Chloroform Extractable Material of Rubber Product	---	04 Days	No	703
	20	Determination of (%) Alcoholic Potash Extract	---	06 Days	No	2238
	21	Determination of (%) Total Sulphur of Rubber Product	---	07 Days	No	2690
	22	Determination of (%) Inorganic Sulphur of Rubber Product	---	07 Days	No	3045
	23	Determination of (%) organic Sulphur of Rubber Product	---	07 Days	No	5733
	24	Determination of (%) Nitrogen(calculated as Glue) of Rubber Product	---	05 Days	No	1878
	25	Determination (%) Total Rubber Polymer Content	---	12 Days	No	12505
	26	Determination of Thickness of Rubber Component at different places	0 to 10mm	02 Days	No	793
	27	Determination of Proofing Content of Rubberized fabric	---	05 Days	No	3865
	28	Determination of Apparent Density of Harness Leather	---	02 Days	Yes	625
	29	Determination of Tensile Strength & Elongation at Break of Vulcanized Rubber	---	02 Days	Yes	708
	30	Determination of Whole Shoe Flexing	---	04 Days	No	613
	31	Determination of Bennewart Flexing	---	01 Day	No	1028

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(C) LEATHER,RUBBER AND FOOTWEAR (MECHANICAL &CHEMICAL)

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test (Days)	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
	32	Determination of De Matia Flexing	---	01 Day	No	778
	33	Determination of Bally Flexing	---	04 Days	No	695
	34	Determination of Ross Flexing	---	05 Days	Yes	695
	35	Determination of Relative Density of Rubber	---	02 Days	Yes	613
	36	Determination of Adhesion Strength of TPO, OG Original	---	02 Days	No	1470
	37	Determination of Adhesion Strength of TPO, OG Original & Aged for 168 hrs	---	10 Days	No	2375
	38	Determination of Loss of Mass on Heating for Glass Fabric	---	05 Days	No	4135
	39	Determination of Cut Growth at Low temperature upto -30 °C	---	04 Days	No	613
	40	Determination of Compression Set	---	02 Days	Yes	973
	41	Determination of BS of Nylon/ Polyester Laces, construction, Nature of Material & Length	---	02 Days	No	905
	42	Determination of Heat Shrinkage at 70 °C	---	02 Days	Yes	708
	43	Determination of mass of sample Camp Mattress	---	02 Days	No	888
	44	Determination of Limit of useful extension of Tape Elastic	---	03 Days	No	2213
	45	Determination of Load required for 50 % extesion	---	02 Days	No	855
	46	Determination of Tension Decay	---	03 Days	No	2663
	47	Determination of Double hole stitch tear	---	02 Days	No	578

Note: Testing charges are excluding GST/applicable Taxes

TESTING FACILITIES IN DGQA LABS

(C) LEATHER,RUBBER AND FOOTWEAR (MECHANICAL &CHEMICAL)

Name of Estt. With address, Name of Nodal Officer and Contact No.	Sr. No.	Test Facilities available	Range of Test Eqpt.	Duration of Test (Days)	Accredited by NABL (Yes/No)	Testing Charges (in Rs.)
	48	Determination of Differential No. of Leather Sample	0 to 14	05 Days	No	1340
	49	Determination of Crackness of Grain of Harness Leather	---	02 Days	No	223
	50	Determination of Water Absorption & Deabsorption of Aramid Cloth Insocks	---	03 Days	No	1335
	51	Determination of Resistance to Low Temperature upto -50 °C	---	02 Days	No	353
	52	Determination of Abrasion Resistance Test of Vulcanized Rubber	---	02 Days	No	445
	53	Determination of Dimensions of Boot Leg Height, Length & Width of Heel	---	01 Day	No	585
	54	Determination of Tearing Strength of PT Shoes and Boot High Ankle PU Rubber Sole	---	02 Days	No	625
	55	Determination of Flame Resistance of Leather Cloth	---	02 Days	No	625
	56	Determination of Water Proofness Test of Boot RI & Scarpa	---	03 Days	No	613
	57	Determination of Stripping Test of Golosh for Shoes Canvas	---	02 Days	No	528

Note: Testing charges are excluding GST/applicable Taxes

COMPILED LIST OF TEST FACILITIES AT SQAE(GS) LABORATORIES,MUMBAI

<u>Name of Estt with Address, Name of Nodal Officer & Contact No.</u>	<u>Sr No.</u>	<u>Testing Facilities Available</u>	<u>Range of Test Eqpt.</u>	<u>Duration of Test</u>	<u>NABL STATUS</u>	<u>Testing Charges (in Rs.)</u>
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQO Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic.in</u>		<u>TEXTILE LABS</u> (INCLUDING SAMPLE PREPARATION)				
	1.	Breaking Strength of Oven Fabrics	0-5000 N	01 Hr & 40 Min	NABL	As per AHSP Auth.
	2.	Bursting Strength of Fabrics	10 Kg/Cm ² To 70 Kg/Cm ²	30 Minutes	NABL	
	3.	Determination of Width	Up to 150Cm	15 Minutes	NABL	
	4.	Determination of Thickness of Oven/ Knitted Fabrics	0-50 mm	20 Minutes	NABL	
	5.	Mass/Unit Area/Length	Up to 610 gms	50 Minutes	NABL	
	6.	Determination of Threads / Unit of Length	Up to 10 Cm	50Minutes	NABL	
	7.	Determination of Dimensional Changes of Fabrics on soaking of water	Up to 6 %	26 Hrs	NABL	
	8.	Determination of Shrinkage of Socks	Up to 6 %	51 Hrs	NABL	
	9.	Determination of Water Repellency by Spray Test	Up to 100 Rating	01 Hrs	NABL	
	10.	Absorbency (Wool Cotton)	In minutes	01Hrs 40 Minutes	Non NABL	
	11.	Dimensions	In cm	25 Minutes	Non NABL	
	12.	Identification of Weave	Visual	20Minutes	Non NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E - Mail	Ser. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	NABL STATUS	Testing Charges (in Rs.)
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQO Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>	13.	Linear Density of Sewing Thread	In Tex	20 Minutes	Non NABL	As per AHSP Auth.
	14.	Cone Test	Leakage in ml	19 Hrs	Non NABL	
	15.	No. of Needles	By Counting in Nos	10 Minutes	Non NABL	
	16.	No. of Rubber Thread	By Counting in Nos.	40 Minutes	Non NABL	
	17.	No. of Courses	Up to 10Cms	10 Minutes	Non NABL	
	18.	Heat Shrinkage	Up to 02 %	02 Hrs	Non NABL	
	19.	Separation of Impurities (Cotton Waste)	Separation Manually by Weight	01 Hr 50 Minutes	Non NABL	
	20.	Density of Rubber	gm/cm	02 Hrs	Non NABL	
	21.	Hardness of Rubber	100 Shore A	01 Hr	Non NABL	
	22.	Low Temp Resistance of Rubber (Combat RI Snow Shoes)	Minus 30 ⁰	06Hrs	Non NABL	
	23.	Ageing Test of Rubber	100	24 Hrs	Non NABL	
	24.	Tearing Strength	50 Kg	01 Hr 40 Minutes	Non NABL	
	25.	Tensile Strength	50Kg/Cm ²	01 Hr 40 Minutes	Non NABL	
	26.	Flexing Test (Ground Sheet)	300 Cycles/ Minute	05 Hrs	Non NABL	
	27.	Cold Cracking at -50 ⁰ C (Ground Sheet)	-50 ⁰ C	06 Hrs	Non NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E ail	Ser. No.	<u>Testing Facilities Available</u>	<u>Range of Test Eqpt.</u>	<u>Duration of Test</u>	<u>NABL STATUS</u>	<u>Testing Charges (in Rs.)</u>
	28.	Accelerated Ageing of Rubber at 70 ⁰ C	70 ⁰ C	168 Hrs	Non NABL	As Per AHSP Auth.
	29.	Waterproof Test	By weight	10 Hrs	Non NABL	
	30.	% Composition of Binary mixture of Polyester & Cotton	Up to 95%	38 Hrs	NABL	
	31.	pH Value of Aqua Extract	0-14	28 Hrs	NABL	
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQO Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>	32.	Colour Fastness to perspiration Acidic/Alkaline	Visually by Gray Scale Up to Rating 5	17 Hrs	NABL	
	33.	Colour Fastness to Washing Test No.1	Visually by Gray Scale Up to Rating 5	16 Hrs	NABL	
	34.	Colour Fastness to Washing Test No.2	Visually by Gray Scale Up to Rating 5	17 Hrs	NABL	
	35.	Colour Fastness to Washing Test No.3	Visually by Gray Scale Up to Rating 5	16 Hrs	NABL	
	36.	Colour Fastness to Washing Test No.4	Visually by Gray Scale Up to Rating 5	18Hrs	NABL	
	37.	Colour Fastness to Washing Test No.5	Visually by Gray Scale Up to Rating 5	22 Hrs	NABL	
	38.	% Water Soluble Content	Up to 02%	10 Hrs	Non NABL	
	39.	%Scouring Loss	Up to 05%	15 Hrs	Non NABL	
	40.	% Ash Content	As per Specification given	08 Hrs	Non NABL	
	41.	Identification of Fiber	IS:667	02 Hrs	Non NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E Mail	Sr. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	.NABL STATUS	Testing Charges (in Rs.)
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQO Mob: <u>Email:-</u> sqaegsmum-dgqa@nic	42	Colour Fastness of Dyed Fabric to Rubbing-Dry/Wet	Visually by Gray Scale Up to Rating 5	02 Hrs	Non NABL	As Per AHSP Auth.
	43	% Oil Content	As per Specification given	32 Hrs	Non NABL	
	44	% Moisture Content	As per Specification given	05 Hrs	Non NABL	
	45	% Composition of Cotton Waste	As per Specification given	27 Hrs	Non NABL	
	46	Wool Content%	As per Specification given	08 Hrs	Non NABL	
	47	Non Wool Content Woolen Felt%	As per Specification given	08 Hrs	Non NABL	
	48	% Water Soluble Content	Up to 02%	10 Hrs	Non NABL	
	49	%Scouring Loss	Up to 05%	15 Hrs	Non NABL	
	50	% Ash Content	As per Specificati-on given	08 Hrs	Non NABL	
	51	Tear Strength (Elmendorf Method)	As per Specification given	01Hrs	Non NABL	
<u>GS LABS</u>						
	52	Cobb Test (Water absorption/ penetration test)	As per IS: 4006 (Pt.I) & IS 1060	1 Hrs	NON NABL	As Per AHSP Auth.
	53	Drop test of container	Up to 5 liters	30 Min	NON NABL	
	54	Bursting Strength for Paper	As per IS: 1060	25 Hrs	NON NABL	
	55	Capacity of container	by weight up to 50 Ltr	1 Hrs	NON NABL	
	56	Handle Pull Test (Drums)	up to 25 liters drums	1 Hrs	NON NABL	
	57	Closure Leakage test	IS: 9503 & IS: 9445	24 Hrs	NON NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Moble No. & E Mail	Sr. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	NABL STATUS	Testing Charges (in Rs.)	
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQO Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>	58	Staining Test for SS	CQA(GS)/US/492	24 Hrs	NON NABL	As Per AHSP Auth.	
	59	Stack load Test	As per IS: 6312	24 Hrs	NON NABL		
	60	Flap Bend Test(DFC Box)	As per IS: 2771	15 Min	NON NABL		
	61	Joint Strength Test(DFC Box)	As per IS: 2771	15 Min	NON NABL		
	62	Tensile Strength of Polythene Film	As per IS: 9503 & IS: 9445	01 Hrs	NON NABL		
	63	Nature of Coating/ plating(Zn, Cd, Sn, Cu, Cr& Ni)	Qualitative	01 Hrs	NON NABL		
	64	Conditioning	Based on the Specs Given	24 Hrs	NON NABL		
	65	Puncture resistance test	IS: 4006-1985(pt-2) RA 2018	25 Hrs	NON NABL		
	66	Dimensions: length, Width, height, Depth, Angle, Outer & Inner Dia & Weight	Based on the Specs Given	02 Hrs Each	NON NABL		
	67	Density of Polythene Film	IS: 2508	01 Hrs	NON NABL		
	68	Nature of material (Ferrous & Non-Ferrous)	Qualitative	01 Hrs	NON NABL		
	69	pH Value	0- 14	02 Hrs	NON NABL		
	70	Thickness of Metal Sheet	0.25 - 25mm	01 Hrs	NABL		
	CHEM TECH(INCLUDING SAMPLE PREPARATION) PAINT TEST						
	71	Mass in kg/10 litre	Pyknometer-100 ml	1 Hrs	NABL		
	72	Scratch Hardness	Scratch Hardness Tester- 1.5 kg	4 Days	NON NABL		
	73	Efflux time(Ford Cup No.4)	Ford Cup B-4 - 100	2 Hrs	NABL		
	74	Wet Opacity(m ² / 10 Lit	IS:101	1 Hrs	NON NABL		

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E Mail	Sr. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	NABL STATUS	Testing Charges (in Rs.)	
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQO Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>	75	Resistance to petrol Benzol Mixture.	IS:101	8 days	NON NABL	As Per AHSP Auth.	
	76	Colour.	IS:101	3 days	NON NABL		
	77	Flash Point(Able)	Up to 75°C	6 Hrs	NABL		
	78	Water content	Dean & Stark App - 0.5%	2 Hrs	NABL		
	79	Resistance Humidity Under Condition of Condensation	Corrosion Oven : 42°C-48°C	12 Days	NON NABL		
	80	Resistance to Salt Spray	IS:101	15 Days	NON NABL		
	81	Consistency	IS:101	15 Days	NON NABL		
	82	Drying Time	IS:101	15 Days	NON NABL		
	83	Natural Outdoor Weathering.	IS:101	35 Days	NON NABL		
	84	Resistance to Acid & Alkali	IS:101	03 Days	NON NABL		
	85	Resistance to Heat	Oven150° C	3 Days	NON NABL		
	86	Finish & Gloss	IS: 101	2 Days	NABL		
	87	Flexibility & Adhesion (Bend Test)	IS:101	5 Days	NON NABL		
	88	Accelerated Storage Stability	Oven 60° C	5 Days	NON NABL		
	89	Determination of Lead restriction	IS:101	2 Days	NON NABL		
	90	Fineness of Grind	Hegmann Scale	1 hrs	NON NABL		
	91	Resistance to Warm Water	IS:101	3 Days	NON NABL		
		<u>PESTICIDES / INSECTICIDES</u>					
	92	Active Ingredient %	U V Spectrophotomete r 200nm-800nm	8 Hrs	NON NABL		

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E Mail	Sr. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	NABL STATUS	Testing Charges (in Rs.)
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQ Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>	93	Weight/ml (Density)	Pyknometer-25 ml	3 Hrs	NON NABL	As Per AHSP Auth.
	94	Acidity or Alkalinity	As Per Sepcs	3 Hrs	NON NABL	
	95	pH	pH Meter	3 Hrs	NON NABL	
	96	Flash Point (Abel)	Abel Apparatus - Up to 75°C	6 Hrs	NON NABL	
	97	Emulsion Stability	IS: 6940	5 Hrs	NON NABL	
	98	Wettability or Dispersibility Test	IS: 6940	1 Hrs	NON NABL	
	99	Suspensibility Test	IS: 6940	1 Hrs	NON NABL	
	100	Sieving Test	IS: 6940	2 Hrs	NON NABL	
	101	Water Content	Karl Fisher - .5%	3 Hrs	NON NABL	
	102	Quantity	--	1 Hrs	NON NABL	
	103	Consistency	--	30 min	NON NABL	
	104	Thermal Stability	Oven Range 0 - 120° C	26 Hrs	NON NABL	
	105	Cohesion value	As Per Specs	26 Hrs	NON NABL	
	106	Total microbial Count	As Per Specs	26 Hrs	NON NABL	
	107	Pathogen	As Per Specs	26 Hrs	NON NABL	
	108	Total Fatty Matter	As Per Specs	06 Hrs	NON NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Moble No. & E Mail	Ser. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	NABL STATUS	Testing Charges (in Rs.)
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQO Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>		<u>Tablets-Out Fit Water Sterilising</u>				As Per AHSP Auth.
	109	Active Ingredient (Halzone & Thio), Sod. Carbonat	JSS : 6040-03	8 hrs	NON NABL	
	110	Methylene Blue Test	JSS : 6040-03	8 hrs	NON NABL	
	111	Determination of Lead	JSS : 6040-03	6 hrs	NON NABL	
	112	Water Content	Dean & Stark App - 0.5%	4 Hrs	NON NABL	
	113	Determination of Arsenic	IS:2088	6 hrs	NON NABL	
	114	Water Insoluble Matter	JSS : 6040-03	5 hrs	NON NABL	
		<u>CHEMICALS</u>				
	115	Weight/ml (Density)	Pyknometer-25 ml	3 Hrs	NON NABL	
	116	Colour	As Per Specs	2 Hrs	NON NABL	
	117	Non Volatile matter	As Per Specs	5 hrs	NON NABL	
	118	Melting Point/ Boiling Point	Up to -250°C	3 Hrs	NON NABL	
	119	Aldehyde/ Ketones	As Per Specs	3 Hrs	NON NABL	
	120	Heavy Metals	As Per Specs	3 Hrs	NON NABL	
	121	Ash % By mass	Furnace 800°C	6 Hrs	NON NABL	
	122	Freezing Point	As Per Specs	6 Hrs	NON NABL	
	123	Miscibility with water	As Per Specs	30 Min	NON NABL	
	124	Water Content	Karl Fisher -0.5%	2 hrs	NON NABL	
	125	Quantity	As Per Specs	1 Hrs	NON NABL	
	126	Loss in Weight	As Per Specs	4 Hrs	NON NABL	
	127	Acidity or Alkalinity	As Per Specs	2 Hrs	NON NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Moble No. & E Mail	Ser. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	NABL STATUS	Testing Charges (in Rs.)	
Govt of India. Ministry of Defence. SQAEGS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAEGS Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>	128	Assay(% by mass)	As Per Specs	5 Hrs	NON NABL	As Per AHSP AUTH.	
	129	Chloride	As Per Specs	4 Hrs	NON NABL		
	130	Sulphates	As Per Specs	4 Hrs	NON NABL		
		<u>OIL & FLUIDS</u>					
	131	Weight/ml (Density)	Pyknometer-25 ml	2 Hrs	NON NABL		
	132	Ash % by mass	Furnace 800°C	5 Hrs	NON NABL		
	133	Loss in Weight	As Per Specs	6 Hrs	NON NABL		
	134	Acidity or Alkalinity	As Per Specs	4 hrs	NON NABL		
	135	pH	pH Meter	4 Hrs	NON NABL		
	136	Freezing Point	As Per Specs	6 Hrs	NON NABL		
	137	Miscibility with water	As Per Specs	01 Hrs	NON NABL		
	138	Resistance to Corrosion	As Per Specs	31 Days	NON NABL		
	139	Water Content	Karl Fisher - 0.5%	3 hrs	NON NABL		
	140	Quantity	As Per Specs	2 Hrs	NON NABL		
	141	Kinematic Viscosity	As Per Specs	2 Hrs	NON NABL		
		Glass Wares (Petry Dish/ Test Tubes & Micro scope Slides/ Cover Slip) Battery Electrolyte MK 1					
	142	Dimension	As Per Specs	2 Hrs	NON NABL		

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E Mail	Ser. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	NABL STATUS	Testing Charges (in Rs.)
Govt of India. Ministry of Defence. SQAEGS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAEGS Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>	143	Visual Examination	As Per Specs	2 Hrs	NON NABL	As Per AHSP AUTH.
	144	Autoclave Test	Autoclave Apparatus	6 Hrs	NON NABL	
	145	Performance Test	As Per Specs	8 Hrs	NON NABL	
	146	Refractive Index	Abbe's Refractometer	2 Hrs	NON NABL	
	147	Alkalinity	As Per Specs	4 Hrs	NON NABL	
	148	Heat Test	As Per Specs	6 Hrs	NON NABL	
		<u>DRUGS LAB</u>				
		TABLETS :-				
	149	Uniformity Of Weight	IP/BP/USP	0.5 Hrs	NABL	As Per AHSP AUTH.
		Identification By			NABL	
	150	i) Chemical	IP/BP/USP	2.0 Hrs	NABL	
	151	ii) UV Spectrophotometer	IP/BP/USP	2.0 Hrs	NABL	
	152	Disintegration Test	IP/BP/USP	2.0 Hrs	NABL	
		Content Uniformity By			NABL	
	153	UV Spectrophotometer	IP/BP/USP	2.0 Hrs	NABL	
		Assay By			NABL	
	154	Chemical	IP/BP/USP	2.0 Hrs	NABL	
	155	UV Spectrophotometer	IP/BP/USP	2.0 Hrs	NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E Mail	Ser. No.	Testing Facilities Available	Range of Test Eqpt.	Duration of Test	NABL STATUS	Testing Charges (in Rs.)
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQO Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>		<u>POL LAB</u>				
	156	Appearance/Visual Examination			NABL	As Per AHSP AUTH.
	157	Kinematic Viscosity at 40°C (ASTM/IS)	IS :1448/ASTM 10cSt-170cSt	4.0 Hrs		
	158	Kinematic Viscosity at 100°C (ASTM/IS)	IS :1448/ASTM 1.5cSt-24.0cSt	4.0 Hrs	NABL	
	159	Viscosity Index			NABL	
	160	Cleveland Open Cup (COC) Flash Point (ASTM/IS)	IS :1448 /ASTM (79°C - 300°C)	1.5 Hrs	NABL	
	161	Pensky Martens Close Cup (PMCC) Flash Point	IS :1448 (79°C - 300°C)	1.5 Hrs	NABL	
	162	Pour Point (ASTM/IS)	I IS :1448 (+20°C to - 45°C)	6.0 Hrs	NABL	
	163	Ash/ Sulphated Ash	IS:1448/ASTM	4.0 Hrs	NABL	
	164	Foaming Characteristics	IS:1448	1.0 Hrs	NON NABL	
	165	Organic Acidity	IS: 1448	2.0 Hrs	NON NABL	
	166	Inorganic Acidity	IS: 1448	2.0 Hrs	NON NABL	
	167	Emulsion Characteristics	IS: 1448	3.0Hrs	NON NABL	
	168	Rust Preventive Test	IS: 1448	25 Hrs	NON NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E Mail	Ser. No.	<u>Testing Facilities Available</u>	<u>Range of Test Eqpt.</u>	<u>Duration of Test</u>	<u>NABL STATUS</u>	<u>Testing Charge s (in Rs.)</u>
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083 Contact No. <u>022 - 25784610</u> <u>Nodal Officer:-</u> Col DBS KUSHWAHA SQAQ Mob: <u>Email:-</u> <u>sqaegsmum-dgqa@nic</u>	169	pH value	IS: 1448	2.0Hrs	NON NABL	As Per AHSP AUTH.
	170	Saponification Value	IS:1448	1.0 Hrs	NON NABL	
	171	TEA & Oleic Acid Test	IS:1448	3.0Hrs	NON NABL	
	172	Copper Strip Corrosion Test (ASTM/IS)	IS:1448	3.0 Hrs	NABL	
	173	Resistance to oxidation test in Break fluid	IS:8654	240 Hrs	NON NABL	
	174	Corrosion Test in Brake fluid	IS:8654	200 Hrs	NON NABL	
	175	Loss on Evaporation Test	IS:8654	170Hrs	NON NABL	
	176	ERBP Test	IS:8654	30 Min	NON NABL	
	177	High Temperature Stability test	IS:8654	2.5Hrs	NON NABL	
	178	Effect on Rubber Cup test	IS:8654	120 Hrs	NON NABL	
	179	ASTM colour test	ASTM	10 min	NON NABL	
	180	Penetration test in Grease	IS:1448	4.0 Hrs	NON NABL	
	181	Drop Point test	IS:1448	3.0 Hrs	NON NABL	

Name of the Estt with address, Name of nodal officer & contact No. Landline Mobile No. & E Mail	Ser. No.	<u>Testing Facilities Available</u>	<u>Range of Test Eqpt.</u>	<u>Duration of Test</u>	<u>NABL STATUS</u>	<u>Testing Charge s (in Rs.)</u>
Govt of India. Ministry of Defence. SQAE(GS), DGQA Complex, LBS Marg, Vikhroli(W) Mumbai-400083	182	Oil Separation test in Grease	IS:1448	200 Hrs	NON NABL	As Per AHSP AUTH.
	183	Acidity & Alkalinity test	IS:1448	2.0 Hrs	NON NABL	
	184	Water Content in Grease	IS:1448	2.0 Hrs	NON NABL	
	185	Water Absorption in Grease	IS:1448	1.0 Hrs	NON NABL	
	186	Thermal Stability test in Grease	IS:1448	34.0 Hrs	NON NABL	
	187	Oil Extraction in Grease	IS:1448	48 hrs	NON NABL	

TESTING FACILITIES AT SQAEGS, CHENNAI LABORATORIES

Name of the Estt With Address, Name & Contact No. of Nodal officer	SL. NO.	TEST FACILITIES AVAILABLE	RANGE OF TEST EQUIPMENT	DURATION OF TEST (MINUTES)	NABL STATUS (Yes/No)	TESTING CHARGES IN Rs. (#)
SQAEGS Laboratory, DGQA Complex, NANGANALLUR, Chennai-600061. Contact details Landline: 044 22340435 044-22340281 E-mail: sqaegschn-dgqa@nic.in Nodal Officer: MH RAO, SSO I Mobile No. 9903657012	1	Male Condom Burst Volume & Burst Pressure After 96 hrs Ageing-Hot Air Oven (80 Pcs.)	Ambient to 70°C	40	Yes	310.00(@)
	2	Male Condom Burst Volume & Burst Pressure Before Ageing- Computerized Inflation Tester (315 pcs.)	0 -70ltrs; 0- 4.0Kpal	180	Yes	1217.00(@)
	3	Male Condom Water Leakage Test A) Water Leakage Tester (315 Pcs.) B) Measuring Cylinder C) Stop Watch	a) 09 heads b) 500ml a) 01Hr	180	Yes	698.00(@)
	4	Male Condom Package Integrity Test A) Package Integrity Tester (ISO&DCA) B) Pressure Gauge C) Stop Watch	a) Container b) -760 to 0mmHg c) 01Hr	30	Yes	39.00(@)
	5	Male Condom- Dimension Length-Condom Length Measuring Device	140-210mm	10	Yes	39.00(@)
	6	Male Condom- Dimension Width-Condom Width Measuring Device	0-300mm	10	Yes	39.00(@)
	7	Male Condom-Dimension Wall Thickness-Thickness Gauge	0 to 1mm	10	Yes	39.00(@)
	8	Male Condom Quantity of Lubricant-Weighing Balance(13 Pcs.)	0 to 210gm	60	Yes	1077.00(@)
	9	Color Fastness of Male Condom	Distilled water	10	Yes	39.00(@)
	10	Plastic Slide Fastener- Visual Examination-Visual	NA	15	Yes	223.00
	11	Plastic Slide Fastener-Length of Fastener-Steel Scale	0-2000mm	15	Yes	
	12	Mass per Unit Length And Mass Per Unit Area Of Any Fabric a) Steel Scale b) Weighing Balance c) GSM Cutter	a) 0-2000mm b) 0-210g c) Circular type	45	Yes	520.00

Note : (#) Testing charges for one sample and excluding GST/Applicable Taxes. & (@) The revised testing charges are under process

Name of the Estt. with address, Name& Contact no. of Nodal officer	Sl. No.	Test facilities available	Range of Test equipment	Duration of test (Minutes)	NABL STATUS (Yes/No)	Testing charges In Rs.
SQAE(GS) Laboratory, DGQA Complex, NANGANALLUR, Chennai-600061. Contact details Landline:044 22340435 044-22340281 E-mail: sqaegschn-dgqa@nic.in Nodal Officer: MH RAO, SSO I Mobile No. 9903657012	13	Plastic Slide Fastener-Textile Chain Width A) Digital Caliper B) Digital Caliper	a) 0-300mm b) 0-150mm	10	Yes	585.00
	14	Plastic Slide Fastener-Textile Chain Thickness A) Digital Caliper B) Digital Caliper	a) 0-300mm b) 0-150mm	10	Yes	
	15	Plastic Slide Fastener- Puller Length- Dial Caliper	0-300mm	10	Yes	
	16	Plastic Slide Fastener- Tape Extension-Steel Scale	0-300mm	10	Yes	
	17	Plastic Slide Fastener-Diameter of Monofilament-Dial Caliper	0-300mm	10	Yes	
	18	Plastic Slide Fastener-Tape Width-Steel Scale	0-300mm	10	Yes	
	19	Plastic Slide Fastener-Security Attachment of Puller to Slider-Tensile Strength Tester	0- 250 N; 0-1000 N	10	Yes	180.00
	20	Plastic Slide Fastener-Fold Over Security Of Textile Chain-Tensile Strength Tester	0-2500 N	15	Yes	223.00
	21	Plastic Slide Fastener Security Attachment of Top Stop- Tensile Strength Tester	0-500N	10	No	223.00
	22.	Plastic Slide Fastener Security Attachment of Bottom Stop- Tensile Strength Tester		10	No	223.00
	23	Plastic Slide Fastener Security of Slider Lock Holding-Tensile Strength Tester	0-500N	10	No	223.00
	24	Plastic Slide Fastener Security of Interlocking of Textile Chain To Lateral Load-Tensile Strength Tester	0-2500N	10	No	223.00
	25	Plastic Slide Fastener-Resistance To Heat-Heat Tester	Ambient Temp to 170°C; cycles:0-250	60	No	223.00

Note : (#) Testing charges for one sample and excluding GST/Applicable Taxes.

NAME OF THE ESTT WITH ADDRESS, NAME & CONTACT NO.OF NODAL OFFICER	SL. NO.	TEST FACILITIES AVAILABLE	RANGE OF TEST EQUIPMENT	DURATION OF TEST (MINUTES)	NABL STATUS (Yes/ No)	TESTING CHARGES IN Rs. (#)
SQAE(GS)Laboratory, DGQA Complex, NANGANALLUR, Chennai-600061. Contact details Landline:044 22340435 044-22340281 E-mail: sqaegschn-dgqa@nic.in Nodal Officer: MH RAO, SSO I Mobile No. 9903657012	26	Plastic Slide Fastener Resistance To Abrasion- Abrasion Tester	No. of cycles 0-150;0-200; 0-250	60	No	223.00
	27	Plastic Slide Fastener Remeshability of Fastener-Scissor	NA	15	No	180.00
	28	Plastic Slide Fastener Reciprocating Movement of Slider-Reciprocating Movement Tester	No. of cycles 0-99999	60	No	405.00
	29	Plastic Slide Fastener Construction of Tape– a) Pick Glass b) Balance c) Meter Scale	a)1 inch b)0-210gm c)0-2000mm	40	No	585.00
	30	Plastic Slide Fastener Construction of Lace– a) Balance b) Steel Scale c) Travelling Microscope	a)0-210gm b)0-300mm c) 0 - 100 mm	35	No	
	31	Plastic Slide Fastener-Identification of Material-Chemicals &Reagents	LR – Reagents	60	No	543.00
	32	PSF Sample-Colour Fastness To Washing- Laundero meter	95°C	1 day	No	973.00
	33	Textile Sample-Colour Fastness to Perspiration-Perspirometer	Perspirometer with 5000g wt.	1 day	No	1335.00
	34	Textile Sample - Colour Fastness to Organic Solvent	Solvents	1 day	No	1335.00
	35	Textile Sample - Colour Fastness to Sea Water	30 % Sodium Chloride salt	1 day	No	1335.00
	36	Threads per Unit Length a) Meter Scale b) Counting Glass	a)0–300mm b)0–01inch	30	Yes	405.00
	37	Breaking Strength & Elongation at Break of woven fabric a) Computerized Tensile Tester b) Fabric Strength Tester c) Tensile Strength Tester	a)0-2500N b)0–2500 N c)0–2500 N,	90	Yes	1040.00

Note : Testing charges for one sample and excluding GST/Applicable Taxes.

NAME OF THE ESTT WITH ADDRESS,NAME& CONTACT NO.OF NODALOFFICER	SL. NO.	TEST FACILITIES AVAILABLE	RANGE OF TEST EQUIPMENT	DURATION OFTEST (MINUTES)	NABL STATUS (Yes/ No)	TESTING CHARGES IN Rs.(#)
SQAE(GS)Laboratory, DGQA Complex, NANGANALLUR, Chennai-600 061. Contact details Landline:044 22340435 044-22340281 E-mail : sqaegschn-dgga@nic.in Nodal Officer: MH RAO, SSO I Mobile No. 9903657012	38	Length & Width of the woven fabric a) Steel Scale	a) 0 – 2000 mm	30	Yes	223.00
	39.	Breaking Strength & Elongation at Break of Yarn Tensile Strength Tester	a) 0 - 75Kg	30	No	1128.00
	40.	Resistance to Abrasion Test for coated fabric Martindale Abrasion Tester	—	45	No	400.00
	41	Dimensional Change of Woven Fabric Except Woolen Product a) Shrinkage Test Apparatus b) Meter Scale	$\pm 30 \%$	For shrinkage 2 hrs 30 minutes & for drying 3 days	No	685.00
	42	Water Repellence of Fabric by cone tester	1 to 400 mm	1 day	No	353.00
	43	Water Repellence of Fabric By Low pressure	5 to 90 cm water column	60	No	353.00
	44	Water Repellence of Fabric By Water Spray Test–Spray Rating Tester	250 ml per 30 sec	60	No	263.00
	45	pH Value of Aqueous Extract of Textile Material pH Meter	1–14 pH value	180	No	1520.00
	46	Scouring Loss of Grey & Finished Cotton Textile Material a) Chemical Reagents b) Drying Oven c) Weighing Balance	a)LR Reagents b)0-250°C c)0-210gm	2 days	No	1793.00
	47	Ash Content of Grey & Finished Cotton Textile Material. a) Weighing Balance b) Crucible Silica c) Muffle Furnace	a)0-210gm b)50ml,100ml c)0-1000°C	2 days	No	895.00

Note : Testing charges for one sample and excluding GST/Applicable Taxes.

NAME OF THE ESTT WITH ADDRESS, NAME & CONTACT NO.OF NODAL OFFICER	SL. NO.	TEST FACILITIES AVAILABLE	RANGE OF TEST EQUIPMENT	DURATION OFTEST (MINUTES)	NABLSTATUS (Yes/ No)	TESTING CHARGES IN Rs.(#)
SQAE(GS)Laboratory, DGQA Complex, NANGANALLUR, Chennai-600061. Contact details Land line: 044 22340435 044-22340281 E-mail :sqaegschn-dgqa@nic.in Nodal Officer: MH RAO, SSO I Mobile No. 9903657012	48	Length Per Unit Weight of Sewing Thread a) Wrap Wheel b) Weighing Balance	a)840 yards b)0-210gm	30	No	313.00
	49.	Resistance to damage by Flexing of coated fabric- De- Mattia Flex tester	100000 cycles	1 day	No	445.00
	50.	Colour Fastness to Rubbing- Crockmeter	--	1 day	No	618.00
	51	Water Penetration test for proofed fabric by Pressure Head Tester (High)	Up to 30 cm water column	60	No	353.00
	52	Bursting Strength of Fabric & CFB Bursting Strength Tester	0 – 35 Kg/cm ²	30	No	250.00
	53	Wt. of the Helmet Weighing Balance	Up to 5 kg	30	No	223.00
	54	Dimension of the Helmet a) Steel Scale b) Vernier Caliper	0 – 300 mm 0- 150 mm	120	No	2695.00
	55	Resin content of the Helmet Muffle furnace	900 °C	1 day	No	1040.00
	56	Water Absorption of Helmet Hot Air Oven	Ambient to 200°C	1day	No	668.00
	57	Resistance Penetration test for Helmet CFG- Penetration tester	Steel Cylinder 1.8 kg	20	No	405.00
	58	Resistance to Impact test for Helmet CFG- Impact tester	Solid steel ball 2 Kg	20	No	405.00
	59	Resistance to Rigidity Test of Helmet- Rigidity Tester	Dead wt. of 30 to 630 N	30	No	1040.00

Note : (#) Testing charges for one sample and excluding GST/Applicable Taxes.

NAME OF THE ESTT WITH ADDRESS, NAME & CONTACT NO. OF NODAL OFFICER	SL. NO.	TEST FACILITIES AVAILABLE	RANGE OF TEST EQUIPMENT	DURATION OF TEST (MINUTES)	NABL STATUS (Yes/ No)	TESTING CHARGES IN Rs.(#)
SQAE(GS)Laboratory, DGQA Complex, NANGANALLUR, Chennai-600061. Contact details Land line: 044 22340435 044-22340281 E-mail :sqaegschn-dgga@nic.in Nodal Officer: MH RAO, SSO I Mobile No. 9903657012	60	Determination of Blocking test for coated fabric	Up to 70 °C	1 day	No	305.00
	61	Determination of dimensional change due to Heat	± 20%	1 day	No	223.00
	62	Determination of Separation of PU Film	--	15	No	223.00
	63	Shearing Test before Endurance test for Velcro	0 – 250 kg	3 hrs	No	353.00
	64	Shearing Test after Endurance test for Velcro	0 – 250 kg	3 hrs	No	353.00
	65	Colour Fastness of Textile Material to Washing IS/ISO 105 –C10 : 2010 Test A(1) or IS : 687 - 1979 RA 1999 Test 1 (A)	Temp 40° C to 95 ° C	1 day	No	793.00
	66	Colour Fastness of Textile Material to Washing IS/ISO 105 –C10 : 2010 Test B(2) or IS : 3361 -1979 RA 1999 Test 2 (B)	Temp 40° C to 95 ° C	1 day	No	793.00
	67	Colour Fastness of Textile Material to Washing IS/ISO 105 –C10 : 2010 Test C(3) or IS : 764 - 1979 RA 2003 Test 3 (C)	Temp 40° C to 95 ° C	1 day	No	793.00
	68	Colour Fastness of Textile Material to Washing IS/ISO 105 –C10 : 2010 Test D(4) or IS : 765 - 1979 RA 2003 Test 4 (D)	Temp 40° C to 95 ° C	1 day	No	793.00
	69	Colour Fastness of Textile Material to Washing IS/ISO 105 –C10 : 2010 Test E(5) or IS : 3417 -1979 RA 2003 Test 5 (E)	Temp 40° C to 95 ° C	1 day	No	1335.00
	70	Disintegration Test–Disintegration Test Apparatus	As per IP/BP/USP	120	No	275.00
	71	pH Value of Chemicals – pH Meter	1-14 pH	15	No	317.00
	72	Identification, Related Substance & Assay– HPLC Test Apparatus	As per IP/BP/USP/IS/ ASTM	1080	No	28,860.00

Note : (#) Testing charges for one sample and excluding GST/Applicable Taxes.

NAME OF THE ESTT WITH ADDRESS, NAME & CONTACT NO. OF NODAL OFFICER	SL. NO.	TEST FACILITIES AVAILABLE	RANGE OF TEST EQUIPMENT	DURATION OF TEST (MINUTES)	NABL STATUS (Yes/ No)	TESTING CHARGES IN Rs.(#)
SQAE(GS)Laboratory, DGQA Complex, NANGANALLUR, Chennai-600061. Contact details Land line: 044 22340435 044-22340281 E-mail :sqaegsch-n-dgga@nic.in Nodal Officer: MH RAO, SSO I Mobile No. 9903657012	73	Thin Layer Chromatography Test–TLC Plate, TLC Tank & Reagent Solution	As per IP/BP/USP	240	No	3622.00
	74	Moisture Content Of Sample–Karl Fisher Titrator	As per IP/BP/USP/IS/ASTM	60	No	1753.00
	75	Dissolution Test-Dissolution Test Apparatus	As per IP/BP/USP	360	No	12,622.00
	76	Penetration-Penetro-meter a) Penetro-meter	a) 01–400unit	480	No	1990.00
	77	Flash Point–Flash Point Apparatus(°C) (Abel Cup)	Ambient Temperature to 70°C	60	No	825.00

Note : (#) Testing charges for one sample and excluding GST /Applicable Taxes.

TEST FACILITIES IN SQAE (GS), LAB, KOLKATA -700022

Name of Estt with address, Name of the Nodal officer and contact No Landline Mobile No & E mail	Srl. No	Testing Facilities available	Range of Equipment.	Remarks NABL/ Non NABL	Testing Charges * + Service Tax Extra) (In `)	
GOVT OF INDIA Ministry of Defence (DGQA) SQAE(GS) 5 Commissariat Road, Hastings PO, Kolkata 700022 Contact No Landline 033-22230520 e-mail : sqaegskol- dgqa@nic.in Nodal Officer: Shri Purushottam De JAG (NFSG) QAO Testing Mobile No – 8765730630	MECHANICAL					
	TEXTILES(YARN & CHORD, LINES, TWINES, ROPES)					
	1.	Manual Counting		NABL		
		(i) Construction	1 to 400 No.		150	
		(ii) Pitch	4/m to 1200/m		270	
		(iii) Direction of Twist	Qualitative Test		150	
		(iv) Lay	1 to 30		390	
		(v) Balance of twist	100 m/Kg to 55,000 m/Kg		270	
		(vi) Count	Qualitative Test		270	
		(vii) Turn per metre	4/m to 1200/m		290	
	2	Diameter (Scale or Caliper)			0.5 to 290 mm Dia	150
	3	(i) Length per Kg (Warp Reel & Balance)			10g/m to 1,100 g/m	270
	4	(ii) Linear Density (Warp Reel & Balance)			3 tex to 100 tex & 200 tex (if single ply yarn)	270
	5	Yarn Strength Tester (up to 20 Kg), Various Tensile Tester (Horizontal/ Verticle) 200-39000 N				
				0.1 Kg to 16 Kg for yarn	NABL	290
		(i) Breaking Load & EB%	40 N to 30,000 N for others	1 to 400 No.		
		TEXTILE FABRIC AND COATED FABRIC				
			(ii) Breaking Load	40N to 12740 N	NABL	290
		6	No of threads/Unit length, No of stitches (Manual)	10/cm to 100/cm Above 100/cm		270
7	Length & Width (scale)	1cm to 20m, 0.5 to 300 cm	270			

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	TEXTILE FABRIC AND COATED FABRIC				
	8	Mass/m ² (Scale & Analytical Balances)	20 g/sq mt to 1000 g/sq mt	NABL	270
	9	Pressure head (Pressure Head Test Apparatus)	Qualitative Test		510
	10	(i) Shrinkage relaxation (Scale, Conductivity Meter)	0.5 to 50 %		510
	11	Thickness (Digital Fabric Thickness Gauge)	0.04 to 10 mm	NABL	270
	12	Water proofness Testing Appts (Upto 90 cm water head), Bundesmann Water Repellency Appts, Cone Tester			
		(i) Immersion Test	Qualitative Test	Non NABL	390
		(ii) Absorbency	Qualitative Test		150
		(iii) Water proof ness test	Qualitative Test		510
		(iv) Cone Test	Qualitative Test		390
	13	Measure of Moisture Regain (IJIRA Moisture Meter)	As per specification		270
	RUBBER & LEATHER				
	14	Density	1.0 to 2.5 gm/cm ³	NABL	250
	15	Compression test	3—80%		800
	16	Shore A deg Hardness Tester			
		(i) Rubber Hardness	10° to 90° Shore A deg		250
		(ii) Rubber Hardness (After Ageing) 72 hours			360
		(iii) Rubber Hardness (After Ageing) 168 hours			1020

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	RUBBER & LEATHER			
	17	(Tensile Tester 0-150 Kg)		
		(i) Adhesion Strength	15 to 4000 N	250
		(ii) Accelerated Ageing by Heating Test at (24 hours)	Ageing in Hot Air Ageing Oven at 40 to 225 °C	360
		(iii) Accelerated Ageing by Heating Tes(72 hours)		580
		(iv) Accelerated Ageing by Heating Test (168hours)		1020
		(v) Tensile Strength before Ageing		250
		(vi) Elongation at Break before Ageing	As per specification	
		(vii) Tensile Strength & Elongation at Break after Ageing (24 hours)	TS - 50 to 4000 N EB - 25 to 750%	360
		(viii) T.S & E.B (72 hours)		580
		(ix) T.S & E.B 168 hours)		1020
	18	Resistance to Flexing Crack Growth	100 cycles/min or 300 ± 10 flexing/min	350
	19	thickness of rubber & Leather components (Dial Thickness Gauge 0-10 mm & 0-50 mm ; Digital Thickness Gauge for Leather 0-10 mm)	0 – 10 mm; 0-50 mm	250
	20	Dimension (Dial Calliper 0-150 mm, 0-300 mm; Micrometer 0-25 mm, 25-50 mm)	As per specification	500
	21	Sole Adhesion Test (Sole Adhesion Tester)	0-1000 N	250
	22	Resistance to cold (Cold Chamber)	0 to (–) 40° C	1100

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	FERROUS AND NON FERROUS METAL WAERS, FIBRE BOARD BOXES, TIMBERS, PLASTICS			
	23	Hardness(Rockwell)	20 to 100 HRB 20 to 70 HRC	NABL 750
	24	Air Pressure Test	0.5 kgf/cm ²	Non NABL --
	25	Digital Vernier Caliper 0-150 mm, Dial Caliper 0-150 mm, 0-300 mm, Digimatic Micrometer – 0-25 mm		
		(i) Dimension (Length)	0.7 to 250mm	NABL 50
		(ii) Dimension (Dia)	0.2 to 20 mm	
		(iii) Dimension (Height)	0.7 to 24 mm	
		(iv) Thickness	0.00 to 25 mm	
	26	Bursting Strength Test (Bursting Strength Tester)	Using three gauges i) 0-60 Kgf/cm ² ii) 0-28 Kgf/cm ² iii) 0-3.5 Kgf/cm ²	Non NABL 750
	27	Moisture Content	1 to 30 %	1300
	28	Tensile Strength (Hounsfield Tensometer Type—V)	0-2000 Kg	750
	29	Digimatic Measurement of Tools (Large Tool Maker Microscope)	Qualitative Test	500
	30	(i) Shock Absorption Test (Helmet)	Qualitative Test	250
		(ii) Rigidity Test (Helmet)	Qualitative Test	250
		(iii) Penetration Test (Helmet)	Qualitative Test	250
		(iv) Harness Test (Helmet)	Qualitative Test	250
	31	Identification of Bristle,Cow tell	Qualitative Test	750
	32	Handle Pull Test	Qualitative test	--

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	Various Textiles Items			
	1	pH Value	1-14	250
	2	Loss on Scouring	0.1% to 25 %	500
	3	Oil Content	1% to 25 %	280
	4	Water Soluble Matter Content	0.1% to 10 %	380
	5	Ash Content	0.1% to 20 %	360
	6	Chromium & Iron Content	0.5% to 10%	620
	7	Identification of Material	As per specification	500
	8	% Composition of Fibres (Polyster+Cellulose), (Protein + Non Protein)	1 to 100%	750
	9	Dye Fastness to Washing	1 to 5 Rating	600
	10	Identification of Dyes	Qualitative Test	1500
	11	Melting Point	100 – 300° C	500
	12	Density	As per specification	250
	13	Euflavin Content		500
	14	Copper Content		530
	15	Zink Content		530
	16	Colour Fastness to Rubbing/ Crocking	1 to 5 Rating	250
	17	Colour Fastness to Perspiration	1 to 5 Rating	500
	RUBBER			
	18	Identification	Qualitative Test	3000
	19	Rubber Hydrocarbon Content	1 % -- 96 %	2500
	20	Acetone Extractable Matter Content	0.5 % to 25 %	280
	21	Free Sulphur Content	0.05 % to 5 %	630
	22	Carbon Black Content	0.2 % to 50 %	510
	23	Resistance to Xylene	Qualitative Test	250
	24	Resistance to Acid & Alkali	Qualitative Test	250
	25	Rubber Polymer Content	1-96 %	5000
	26	Filler Content	0.5% to 50%	360

<div>GOVT OF INDIA</div> <div>Ministry of Defence (DGQA) SQAE(GS)</div> <div>5 Commissariat Road, Hastings PO, Kolkata 700022</div> <div>Contact No</div> <div>Landline</div> <div>033-22230520</div> <div>e-mail :</div> <div>sqaegskol- dgqa@nic.in</div> <div>Nodal Officer:</div> <div>Shri Purushottam De</div> <div>P sc O</div> <div>QAO Testing</div> <div>Mobile No – 8765730630</div>	CHEMICAL				
	RUBBER				
	27	Acetone & Chloroform Extractable Matter Content	1 % to 25%	NABL	280
	28	Alcoholic KOH Extractable Matter Content	0.5 % to 10 %		540
	29	Combined Sulphur Content	0.1 % to 10 %		660
	30	Nitrogen as Glue Content	0.5 % to 25%		760
	LEATHER				
	31	Total Ash	0.5 % to 15 %	NABL	360
	32	Solvent Extractable Matter	0.2% to 20 %		280
	33	pH of water soluble	1-14		380
	34	Degree of Tannage	1-90		5000
	35	Sulphated Ash Content	0.1 to 10 %		600
	36	Hide Substance	10 % to 80 %		600
	37	Water soluble matter	1 % to 35 %		380
	38	Solvent Extractable Matter	0.2% to 20 %		270
	39	Chromium Content	0.5 % to 10 %		500
	Non Ferrous Metal Waers				
	40	Copper Content	1% to 99.80%	Non NABL	2600
	41	Lead Content	0.1% to 5 %		2600
	42	Tin Content	0.1 % to 15%		2900
	43	Iron Content	0.02% to 2 %		2200
	44	Copper Content (Pure Metal)	0.1 to 99.99 %		1500
	45	Manganese Content	As per specification As per		2200
	46	Magnesium Content			2900
	47	Silicon Content			2900
	48	Sulphur Content			1500
	49	Phosphorus Content			3650
	50	pH Value of Paper	1-14		370

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	PAINTS				
	51	Drying Time (Manual)	Subjective Test	NABL	2200
	52	Colour (Visual)	Qualitative Test		750
	53	Mass in Kg/10 litre (Metal Pycknometer)	8.2 to 25 Kg/10 litre		750
	54	Scratch Hardness (Scratch Test Apparatus)	Qualitative Test		750
	55	Efflux Time/ Consistency (Flow/ Ford Cup 4)	20 Sec to 300 Sec		750
	56	Wet Opacity (Cryptometer)	50 to 1250 m ² / 10 litre		1500
	57	Resistance to Petrol-Benzol Mixture	Qualitative Test	Non NABL	1500
	58	Application of Paints & Finish	Qualitative Test		500
	59	Particle Size (Fineness of Grind)	Qualitative Test		250
	60	Protection against Corrosion (Corrosion Cabinet)	Qualitative Test		3000
	61	Film Thickness	Upto 0.004		750
	62	Flash Point (Abel Flash Point Apparatus)	65° C (Max)		1500
	63	Flexibility and Adhesion of Paints	Qualitative Test		750
	64	Resistance to Impact	As per specification		750
	65	Gloss (Gloss Meter)	Digital Gloss Meter		750
	66	Gloss & Finish	With 45° & 60° Head AMIL (Brand)		750
	67	Lead Restriction	Qualitative Test		11600
	68	%Pigment Analysis	As per specification		5800
	69	Resistance to Heat, Acid, Alkali, Warm Water	Qualitative Test		5800

	70	Resistance to Salt Spray	Qualitative Test		1500
	71	Accelerated Storage Stability test	Qualitative Test		1500
	72	Durability test	Qualitative Test		750
	73	Water Content	As per specification		1500
	74	Natural outdoor weathering	Qualitative Test		4350

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	PETROLEUM PRODUCTS (LIP SALVE)				
	75	Solubility in Chloroform	Qualitative Test	NABL	370
	76	Lanolin Appendix A of above spcn.	Qualitative Test		370
	77	Saponification Value in mg of KOH/g	1 to 50		1500
	78	Temp. effect at 35°C ± 2°C Appendix C of above spcn.	Qualitative Test		1500
	79	Acid Value Appendix E of above spcn.	0.12 to 10		750
	80	Consistency Appendix F of above spcn.	Qualitative Test		1500
	PETROLEUM PRODUCTS (Antifreeze Coolant) (DAFC 30, DAFC 50)				
	81	Pour Point/Freezing point in °C	-70°C to 0 °C	NABL	3000
	82	Kinematic Viscosity at 37.8°C	2.47 cst to 145.07 cst		750
	83	Foaming Tendency	Qualitative Test		1500
	84	Refractive Index at 20°C	1.3007 to 1.6993		750
	85	Sulphate	Qualitative Test		4350
	86	pH of liquid sample	1-14	Non NABL	1500
	87	Moisture content, Residue on evaporation	160° C & 0 – 5 lb/sq. inch		1500
	88	corrosion test	Qualitative Test		3000
	89	Distillation Test	Qualitative Test		1500
	PETROLEUM PRODUCTS (Special purpose chemicals viz URF etc.)				
	90	Kinematic Viscosity at 37.8°C	As per specification	Non NABL	750
	91	Kinematic Viscosity at 30.0°C	As per specification		750
	92	Kinematic Viscosity at 27.2°C	As per specification		750
	93	Glycerol %	As per specification		1500
	94	Ethyl Alcohol %	As per		1500

			specification		
	95	Sodium Nitrite %	As per specification		1500
	96	Di-Sodium Hydrogen Phosphate %	As per specification		3000
	97	Benzetrizol loss in Weight of panel, mg	Qualitative Test		15500

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	PETROLEUM PRODUCTS (Special purpose chemicals viz URF etc.)				
	98	Chloride %	As per specification	Non NABL	750
	99	pH at 25 °C	1-14		750
	100	Ash %	As per specification		1500
	101	Freezing Point	Up to —60°C		3000
	102	Miscibility with Water	Qualitative Test		250
	103	Resistance to corrosion	Qualitative Test		15500
	PETROLEUM PRODUCTS				
		Grease		NABL	
	104	Drop Point °C	40 to 250 °C		1500
	105	Free Acidity as Oleic Acid (% by Mass)	0.05 to 1.00 %		3000
	106	Free Alkalinity as Ca(OH) ₂ (% by Mass)	0.03 to 0.50 %		
	107	Glycerol Content	0 to 1 %		17500
	108	Copper Strip Corrosion	Qualitative Test		4500
	109	Heat Stability	Qualitative Test		3000
	110	Oil Separation/ Thermal Stability of Grease.	0 to 8 %		950
	111	% Evaporation Loss	0.013 to 10 %		1600
	112	Penetration Number	1 to 399		900
	113	Corrosion Preventive Properties	Qualitative Test	Non NABL	3000
	114	Leakage and Deposit forming tendency test	Qualitative Test		1500
	115	Low Temperature Pumping test	Qualitative Test		3000
	116	Rust Preventive Properties	Qualitative Test		750
	117	Water Content	As per specification		1500
	118	Soap Content	As per specification		17500

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	PETROLEUM PRODUCTS				
		Grease		Non NABL	
	119	Mineral Oil content	As per specification		17500
	120	Graphite Content	As per specification		7250
	121	Sulphated Ash	As per specification		2200
	122	%Molybdenum Disulphide	As per specification		7250
		Fuel		NABL	
	123	Density at 15°C	0.600 to 0.999		250
	124	Silver Strip Corrosion	Qualitative Test		400
	125	Water Reaction	Qualitative Test		750
	126	Flash Point (Abel)	0 °C to 70 °C		1500
	127	Distillation	40 ⁰ C to 399 ⁰ C		1500
	128	Smoke Point	0 to 50 mm		370
	129	Colour (Say bolt)	Qualitative Test		370
	130	C.S. Corrosion	Qualitative Test		390
	131	Doctor test	Qualitative Test	Non NABL	500
	132	Existent Gum(Residue on Evaporation)	Qualitative Test		500
	133	% Carbon Residue by Mass	Qualitative Test		1450
	134	Freezing Point	Qualitative Test		5800
		Lube Oil		NABL	
	135	Phosphorous	0.006 to 1 %		17500
	136	Flash Point (COC)	100°C to 300 °C		1500
	137	Kinematics Viscosity (KV)	2.59 to 145.03 cst		750
	138	Viscosity Index	Calculated from KV		250
	139	Sulphated Ash	0 to 10 %		1500

	140	Acidity mg KOH/g	0 to 1.0 %		750
	141	Sap Value as mg KOH/g of sample	0.1 to 200		750

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	PETROLEUM PRODUCTS			
		Lube Oil		
	142	Foaming Tendencies	Qualitative Test	1500
	143	Emulsion Characteristics	Qualitative Test	1500
	144	Pour Point	Qualitative Test	1500
	145	Rust Prevention Characteristics	Qualitative Test	3000
	146	Evaporation Loss test	Qualitative Test	1100
	147	Homogeneity & Miscibility	Qualitative Test	1500
	148	Colour	Qualitative Test	750
		Protective PX		
	149	Drying Time	Qualitative Test	750
	150	Adhesion & Stickiness	Qualitative Test	750
	151	Protection against Corrosion	Qualitative Test	750
	152	pH Value	1-14	250
	153	Drop Point	0 – 250° C	1500
	154	Flash Point	As per specification	1500
	155	Film Forming Properties	Qualitative Test	750
	156	Presence of Lanolin	Qualitative Test	750
	157	Corrosive action on Lead	Qualitative Test	3000
	158	Corrosiveness on metal	Qualitative Test	3000
	159	Stability	Qualitative Test	3000
	160	Volatile Matter	As per specification	1500

DETAILS OF TEST FACILITIES AT CTH, CQA(GS) KANPUR

(Metal Testing Laboratory)

Sr No	Name of Estt. With address, Name of Nodal Officer	Test Facilities available (Store Name /Specification /Test Facilities available)	Range of Test Equipment	Duration of Test (in Man Hours)	Testing Charge (in Rs.) (Excluding GST)	Remarks
1	Government of India, Ministry of Defence (DGQA),CQA (GS), DGQA Store Complex, Ashok Path, Cantt. Kanpur-208004 Lt Col Ajay Singh Rana Lab DC. Contact. No. 9870209392 0512-2326808 Email- cqagsknp-dgqa@nic.in	Air Pressure Test for Lightening, Heating & metal Containers Samples i.e. Pressure Cooker, Lamp	(0-7 Kg/Cm ²)	3.5	1790	
2		Hydraulic Pressure Test of metal containers various capacity	(0-7 Kg/Cm ²)	3.5	1790	
3		Hardness Test in Rockwell for ferrous Metals	(HRA, HRB, HRC)	3.5	1798	
4		Weighing of Various Samples	(0-60Kg)	1.0	511	
5		Drop Test for Metal Containers, 3/4 way joints etc	Up to 3 mtr Height	4.0	2045	
6		Load Test for various stores i.e. carrier Man Pack, Chain Securing rifle etc	Up to 500 Kg	4.5	2300	
7		Strom Proofness Tester for Oil lamp	(0-70Km/hr)	2.5	1338	
8		Capacity of Metal Containers	Up to 220 Lts	2.5	1278	
9		Thermal Efficiency Test of Heating & cooking Items	NA	6.0	3187	
10		Measurement of Precise Dimensions	2 Micron	1.5	767	
11		Measurement of Linear Dimensions	LC-0.01 mm	3.5	1789	
12		Measurement of Thickness (0-25 mm)	LC-0.01 mm	3.5	1789	
		<u>(Timber Testing Laboratory)</u>	-	-		
13	Government of India, Ministry of Defence (DGQA),CQA (GS), DGQA Store	Moisture content of plywood	220 g	2.5	1474	
14		Glue Shear Strength Test of plywood (Dry)	200 kg	3.5	2079	
15		Glue Shear Strength Test of plywood (Wet)	200 kg	3.5	2079	
16		Glue Shear Strength Test of plywood (Mycological)	200 kg	4.0	2376	

17	Complex, Ashok Path, Cantt. Kanpur- 208004 Lt Col Ajay Singh Rana Lab DC. Contact. No. 9870209392 0512- 2326808 Email- cqagsknp- dgqa@nic.in	Water Resistance of Plywood	up to 100 ° C	3.0	1770	
18		Thickness of Plywood	0 to 150 mm	1.1	647	
19		Bursting Strength of Corrugated /Solid & Paper	0 to 50 Kg/cm ²	2.0	1182	
20		Compression test of Corrugated/Solid Fibre board Box	0 to 1000 kg	1.9	1137	
21		Puncture test of Corrugated/ Fibre Board Box	0 to 1300 BU	1.8	1061	
22		Joint strength test of Corrugated box		0.9	529	
23		Water Absorption test of paper & Corrugated / fibre box		1.8	1060	
24		Substance of paper	220 kg	1.9	1120	
25		Bleeding test of paper		2.8	1646	
26		Tensile Strength of paper	0 to 200 N	1.8	1060	
27		Thickness of paper	0- 12.7 mm	1.1	648	
28		Tear test of paper	0-1000 mN	2.2	1301	
29		Moisture content of paper	0 -220 gm	2.8	1651	
30		Bend test of cane	-	2.3	1352	
31		Identification of timber	-	2.6	1528	
32		Quality of Wood	-	1.9	1117	
33		Impact test of handle	-	1.6	941	
34		Measurement of Linear Dimensions	LC-0.01 mm	3.5	2059	
35		Moisture Content of Timber	0 - 200 gm	2.5	1474	
		<u>(APCL Testing Laboratory)</u>	-	-	-	
36	Government of India, Ministry of Defence (DGQA),CQA (GS), DGQA Store Complex, Ashok Path, Cantt. Kanpur- 208004 Lt Col Ajay Singh Rana Lab DC.	Tensile Strength of abrasive/emery paper	5N -2250N	4.5	2645	
37		Preliminary identification of polymer	0.0	5.5	3233	
38		sub zero temp. test up to - 50degree C	0 to -50 ° C	11.5	6805	
39		Impact test	2Kg.	3.0	1764	
40		Penetration test	1.8Kg.	3.0	1764	
41		Resin Content	0 to 1200 ° C	10.5	6186	
42		Rigidity Test	0 to 100Kg	5.5	3234	
43		Ageing of samples	0 to 300 ° C	3.5	2058	
44		Grain size analyses of abrasive	120µ to 1mm	5.5	3233	

45	Contact. No. 9870209392	Shaking of solution(for Change in Colour)	NA	4.0	2352	
46	0512-2326808	Gloss/optical test of polythene film	0-100%	4.0	2352	
47	Email-cqagsknp-dgqa@nic.in	Weighing of samples/Thickness of samples	5 Kg	4.0	2358	
48		Determination of Melting Point of Nylon Filament	360 ° C	4.0	2352	
49		Flexing /Indentation Test of coir Mattress/PU Mattress	240cycle/min	7.5	4436	
50		Impact Test On Polythene Film	300g wt.	3.5	2065	
51		Hardness Of Rubber 'Shore A'	0-100	3.5	2058	
52		DropTest /Load test of all samples	500kg	6.5	3821	
		Light Transmittance test of snow goggles//Face Mask	0-800nm	8.0	4803	
		Dimensions Of Samples	0-150mm, 0-300mm	8.5	5006	
		Tensile Strength of rubber	0-250 kg	6.5	3821	
53		Capacity Test	0-1000ml	5.5	3233	

Chemical Testing Laboratory

		Chemical Composition of Plane Carbon & Low Alloy Steel				
64	Government of India, Ministry of Defence (DGQA),CQA (GS), DGQA Store Complex, Ashok Path, Cantt. Kanpur-208004 Lt Col Ajay Singh Rana Lab DC. Contact. No. 9870209392 0512-2326808 Email-cqagsknp-	Carbon	As per IS:8811:1998	2.0	2801	
65		Cobalt				
66		Manganese				
67		Nickel				
68		Niobium				
69		Phosphorus				
70		Silicon				
71		Sulphur				
72		Aluminium				
73		Boron				
74		Vanadium				

	dgqa@nic.in					
	DGQA Store Complex, Ashok Path, Cantt. Kanpur- 208004 Lt Col Ajay Singh Rana Lab DC. Contact. No. 9870209392 0512- 2326808 Email- cqagsknp- dgqa@nic.in	Chemical Composition of Carbon & Low Alloy Steel				
75		Carbon	As per ASTM E 415-2021	2.0	3056	
76		Cobalt				
77		Manganese				
78		Nickel				
79		Niobium				
80		Phosphorus				
81		Silicon				
82		Sulphur				
83		Aluminium				
84		Boron				
85		Vanadium				
86		Antimony				
		Chemical Composition of Austenitic Stainless Steel				
87		Carbon	As per ASTM E 1086-2014	2.0	3056	
88		Chromium				
89		Manganese				
90		Nickel				
91		Phosphorus				
92		Silicon				
93		Sulphur				
94		Molybdenum				
		Chemical Composition of Austenitic & Ferrinitic Stainless Steel				
95		Carbon	As per IS:9879:199 8	2.0	2801	
96		Chromium				
97		Manganese				
98		Nickel				
99		Phosphorus				
100		Silicon				
101		Sulphur				
102		Molybdenum				

		Chemical Composition of Copper & Copper Alloys				
103	DGQA Store Complex, Ashok Path, Cantt. Kanpur-208004 Lt Col Ajay Singh Rana Lab DC. Contact. No. 9870209392 0512-2326808 Email- cqagsknp-dgqa@nic.in	Arsenic	As per BS EN 15079 : 2015	2.0	3056	
104		Iron				
105		Lead				
106		Nickel				
107		Phosphorus				
108		Sulfur				
109		Tin				
110		Zinc				
111		Bismuth				
112		Manganese				
113		Silicon				
		Chemical Composition of Aluminium & Aluminium Alloys				
114		Chromium	As per ASTM E 1251-17a	2.0	3056	
115		Copper				
116		Iron				
117		Magnesium				
118		Manganese				
119		Silicon				
120		Titanium				
121		Tin				
122		Vanadium				
123		Zinc				
124		Lead				
125		Nickel				
		Chemical Composition of Wrought Aluminium Alloys				
126		Chromium	As per IS:11035:1984	2.0	2801	
127		Copper				
128		Iron				
129		Magnesium				
130		Manganese				
131		Silicon				
132		Titanium				
133		Zinc				
134		Staining Test		40.0	11865	(01-20 SAMPLES)

		Preece Test		6.0	1350	
136		Identification of nature of coating		0.5	740	
137		Determination of mass of Zn coating on Zn coated Iron and Steel articles		3.0	1440	
138		pH Test	0.01-14	3.0	740	
139		Identification of Nature of Preservatives used in timber & timber products (Cu,Cr & B contents)		1.5	1100	
	Note: The Duration of test may vary depending upon the Nature, Size & critically of Sample					