

## FOREWORD

Indian armed forces have large inventory of aircraft, helicopters, aero engines, and weapon systems etc. which are either bought out, licence produced or ab-initio developed. Long term sustenance of such a diverse fleet is a major challenge as most of the equipments and spares required for MRO activities are sourced from other countries. Non availability of spares, long lead time, exorbitant price and obsolescence are major cause of concern for fleet sustenance. In the past, indigenization effort was mainly aimed at obsolescence management and scope was restricted by economic and infrastructure constraints.



Today, with thrust on Make in India, many MSMEs are taking initiative to develop aeronautical grade materials, components and equipments not only to meet country's requirement but also have large export potential. The industries are mature enough to design, develop and manufacture products as per the stringent requirements stipulated by CEMILAC and even embarking on export potential. CEMILAC has issued 2000 Type approvals (up to Sept 2019) for variety of products which are in production at various Public & Private sector industries, Government establishments like Defence R&D Organisations and Ordnance Factories. This has saved several crores to the Exchequer and is a major step towards self reliance.

Place : Bengaluru

Date : Sept 2019

**APVS Prasad**

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## INTRODUCTION

For last five decades, aircraft, helicopters and aero engines have been manufactured in India under license agreement with several countries to meet India's defence needs. Of late, there has been a shift in the country's aerospace scenario from licensed manufacture to indigenous R&D effort & abinitio development of manned and unmanned Aircraft. Over these years, CEMILAC has been supporting various mission mode projects like LCH, LUH, AEW&C, RUSTOM UAV as well as Aircraft upgrades, modification, missile integration etc. Advanced Light Helicopter (Dhruv) has been designed, manufactured and successfully inducted in to service. Similarly, the most sophisticated Light Combat Aircraft (Tejas) has been successfully developed with indigenously developed products, LRUs and components. Aeronautical systems, the most complex engineering system, demands utmost reliability and safety throughout its service life. Assuring airworthiness to any system involves a total evaluation, right from the raw materials to final components/systems through various manufacturing processes followed by integration and final performance validation that include systematic analysis of rig, ground and flight tests. In fact, the Type Certification is the culmination of systematic evaluation that ensures product performance and reliability during service exploitation.



The first Type Approval was issued during Aug, 1967 to HAL (Engine Division), Bangalore, for Air Starter of aero engine used on a fighter class as well as trainer aircraft which is still in service. Since then, aircraft industries have seen considerable progress due to dedicated efforts put in by RCMA's, DGAQA and various developing agencies which resulted in accreditation to more than 20 varieties of aeronautical Stores/Items/Systems culminating to 2000 Type Approvals as on Sept 2019. In addition to the Type Approvals, as many as 193 firms from Public Sectors, Private Industries and Government Organizations have been accorded with Design Approvals in the field of Electronics, Avionics, Communications, Hardware/Software, Electrical, Mechanical, Aircraft Tyres, Aircraft Structures, Aero engine & Life support System etc. CEMILAC grants Approval to the Design & Development Agencies for their competency to Design and to ensure compliance with all necessary specifications and the Governing design requirements stipulated by the Military Airborne Applications.

Considering such a large number of Type Approvals as well as Design Approvals, a need was felt to come out with a concise compilation as a reference hand book in the form of “Compendium of Type Approvals of Airborne Stores and Design Approval of Firms 2019” where Type Approvals as well as Design Approval/Test House Approvals issued by CEMILAC till Sept 2019 have been compiled.

Shri APVS Prasad (Chief Executive, CEMILAC) has always been motivating force behind making this compendium a reality. In order to complete this daunting task, Smt K. Shunmugapriya, Sc ‘E’, Shri Amarnath Kosgi, Sc ‘D’, Shri V Shankar, TO ‘C’, Thippeswamy. H, TO ‘B’, Shri Pravin Kumar Singh, STA ‘B’ & Shri Sunil Kumar, STA ‘B’ of Technical Co-ordination & Safety Group of CEMILAC have put in their dedicated efforts in collection of data, verification, entry, including proof reading and bringing out the book in the present form. It is expected that, this compendium will serve as ready reckoner for all specialists engaged in the aeronautical field, including development, manufacture and also the operation and maintenance units of Indian Armed Forces. Extreme care has been exercised to make the compendium error free in all respects, to bring out any mistakes/errors, and/or any clarification on the contents, if required CEMILAC may be contacted on Tel. /Fax No. 080-25121400/ 25234765 or by email to [gd.tcs@cemilac.drdo.in](mailto:gd.tcs@cemilac.drdo.in).

Place : Bengaluru

Date : Sept 2019

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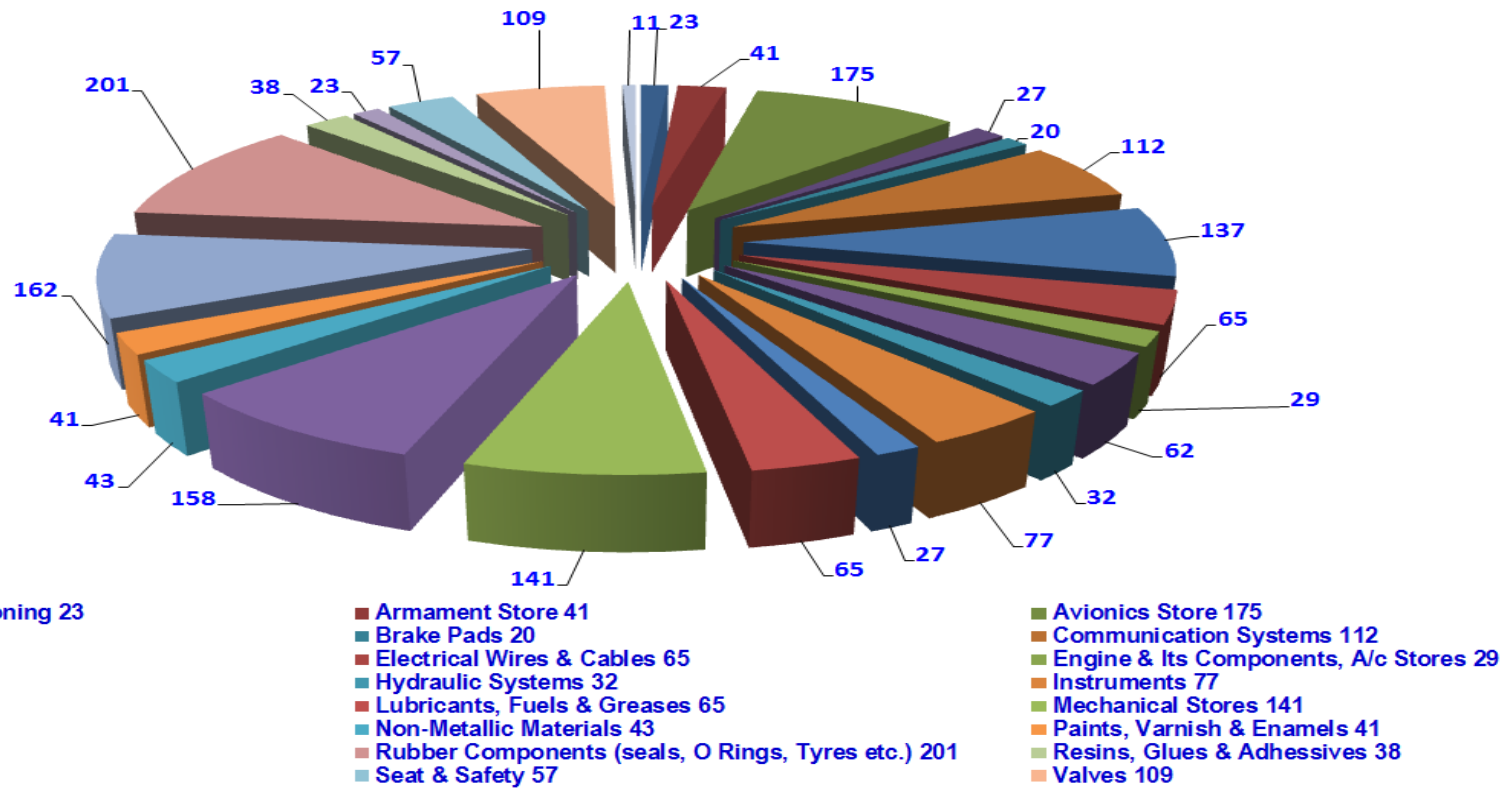
**PART – I.A**  
**GLOSSARY OF ABBREVIATION**

1.	A/C	Aircraft
2.	AA	Air Armaments
3.	ADRDE	Aerial Delivery Research & Development Establishment
4.	AIS	Air Intake Shutter
5.	ASERDC	Aerospace Systems & Equipment Research & Design Centre
6.	ATF	Aviation Turbine Fuel
7.	CASU	Central Audio Switching Unit
8.	CEMILAC	Centre for Military Airworthiness & Certification
9.	CHD	Chandigarh
10.	CIRP	Cartridge Initiator Rocket Pack
11.	CR	Cold Rolled
12.	D&D	Designed & Developed
13.	DEBEL	Defence Bio-Engineering & Electro Medical Lab
14.	DLRL	Defence Electronics Research Laboratory
15.	DES	Designed
16.	DEV	Developed
17.	DMRL	Defence Metallurgical Research Laboratory
18.	DRDL	Defence Research & Development Laboratory
19.	Dwg	Drawing
20.	ECIL	Electronics Corporation of India Limited
21.	ENG	Engines
22.	RCMA: F&F	RCMA :Foundry & Forge – Fuel,Oil, Lubricants
23.	F&HR	Forged & Hot Rolled

24.	GCP	Generator Control Protection
25.	GLCS	Galvanised low carbon Steel
26.	GTRE	Gas Turbine Research Establishment
27.	H/C	Helicopters
28.	HAL	Hindustan Aeronautics Limited
29.	HYD	Hyderabad
30.	IU	Interface Unit
31.	KNP	Kanpur
32.	KOW	Korwa
33.	KPT	Koraput
34.	LKO	Lucknow
35.	MAT	Materials
36.	MFD	Manufactured
37.	MIDHANI	Mishra Dhatu Nigam Limited
38.	MSL	Missiles
39.	MSLR	Multi Seater Life Raft
40.	NBRC	Nitrile Base Rubber Comound
41.	NSK	Nasik
42.	Pt.No.	Part Number
43.	RCMA	Regional Centre for Military Airworthiness
44.	RC	Rubber Compound
45.	TA	Type Approval
46.	UC	Under Carriage
47.	W/D	Withdrawn

**PART- I.B**

**Type Approvals - 2000 Issued till September 2019**

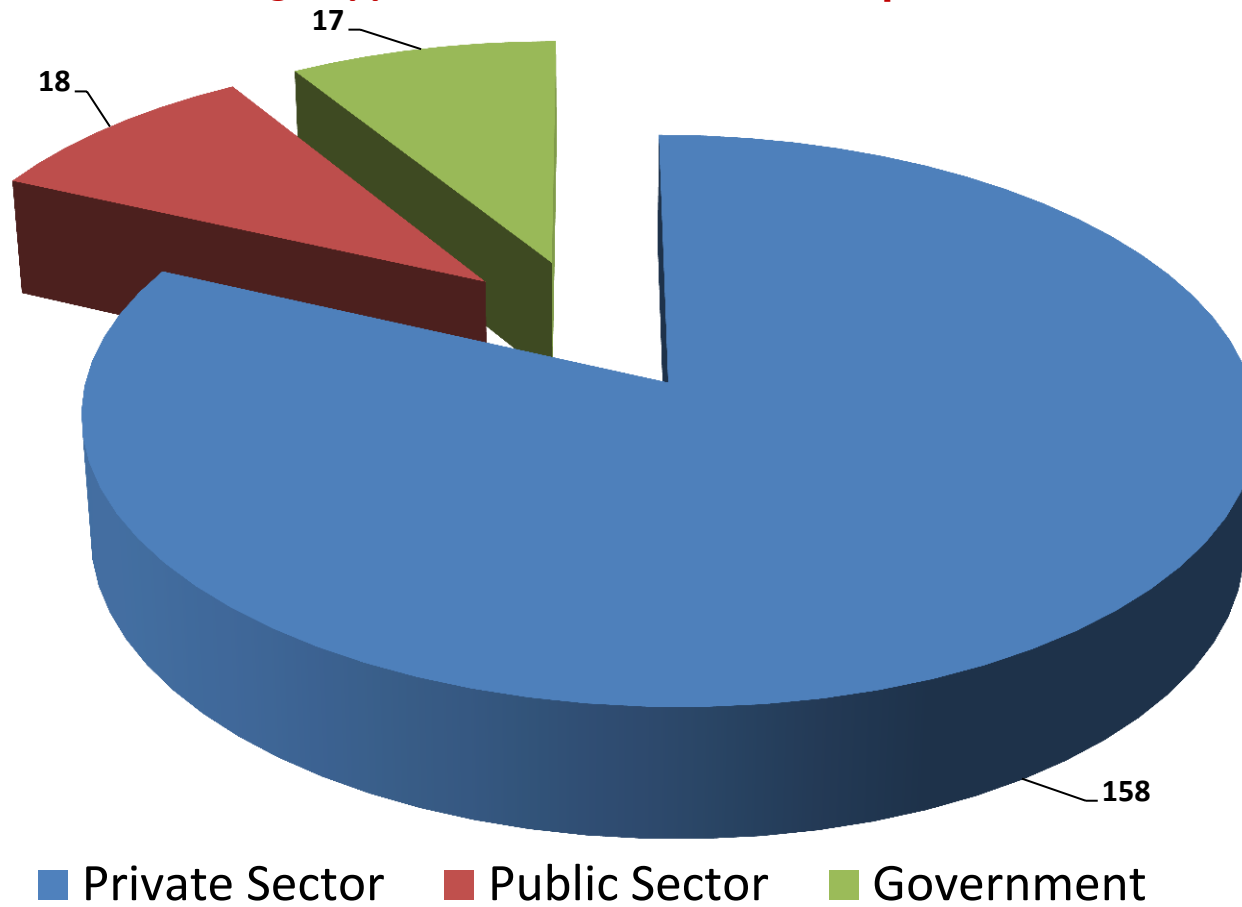


The Type Approval granted by CEMILAC covers a wide Spectrum of Aeronautical Stores Like Metallic and Non Metallic Materials, Instruments, Avionics, etc. 2000 Type Approval have been issued as on Sep 2019 as shown in the chart.



### PART- I.C

#### 193 Design Approval of Firms Issued till September 2019



**PART-I.D List of Type Approved Stores**  
**SECTION 1**  
**Air Pressurisation & Air Conditioning**

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Flow Limiting Venturi Pt.No.120200000	M/s HAL, Lucknow	LKO	205
2.	Cold Air Unit Pt.No.121100000	M/s HAL, Lucknow	LKO	207
3.	Water Extractor Pt.No.122000000	M/s HAL, Lucknow	LKO	259
4.	Flow Venturi Pt.No.120600000	M/s HAL, Lucknow	LKO	282
5.	Flow Limiting Venturi Pt.No.120500000	M/s HAL, Lucknow	LKO	287
6.	Air Pressure Reducer Pt. No. 103600000	M/s HAL, Lucknow	LKO	290
7.	Jet Pump Pt.No.125100000	M/s HAL, Lucknow	LKO	327
8.	Pressure Reducer Pt. No. 130600000	M/s HAL, Lucknow	LKO	356
9.	Mechanically Controlled Pressure Regulator Pt. No. 130200000	M/s HAL, Lucknow	LKO	363
10.	Air Filter Pt.No. 133000000	M/s HAL, Lucknow	LKO	379
11.	Water Injector Pt.No.122900000	M/s HAL, Lucknow	LKO	418
12.	Pressure Reducer Pt. No. 130700000	M/s HAL, Lucknow	LKO	472
13.	Ejector Pt.No.134000000	M/s HAL, Lucknow	LKO	534
14.	Water Extractor Pt.No.122100000	M/s HAL, Lucknow	LKO	536
15.	Flow Limiter Pt.No.120700000	M/s HAL, Lucknow	LKO	591
16.	Bleed Air Filter Pt.No.132900000	M/s HAL, Lucknow	LKO	592
17.	Cold Air Unit Pt.No.121800000	M/s HAL, Lucknow	LKO	597
18.	Hot Air Needle Cock Pt.No.133300000	M/s HAL, Lucknow	LKO	657
19.	Air Filter Pt.No.132800000	M/s HAL, Lucknow	LKO	699
20.	Pneumatic Pressure Reducer with N.R.V. Pt. No. 1447.00.000	M/s HAL, Lucknow	LKO	868

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
21.	Teflon Bellow Pt. No. N327-6110-0059	M/s R.P.M Engineering, Nasik	NSK	1203
22.	Gauge Pressure switch (AIR) Pt. No.1654 00 000	D&D by: ASERDC, HAL, Lucknow; Mfd by: HAL, Accessories Division, Lucknow	LKO	1374
23.	Flow Venturi Pt. No.120900000	M/s HAL, Lucknow	LKO	1385

**SECTION 2**  
**Armament Stores**

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Igniters for Motors, Rocket, 68 mm Type 224/24	Ordnance Factory, Kirkee	AA	45
2.	Explosive Components of A/c Integral Charge Fire extinguisher	ARDE, Pune	AA	46
3.	Knob Breech Lock Assy. Pt. No. 226GT/1516/NIV	No.5 BRD, Suler,Tamilnadu	A/C	109
4.	Cartridge 7.62 mm NATO Ball Ammunition	Ordnance Factory, Varangaon	AA	179
5.	Twin Gun Pod 7.62 mm for Kiran Mk IA A/C	M/s HAL, A/C, Bengaluru	A/C	428
6.	Cartridge ERU Type PK-34-1	Ordnance Factory, Jabalpur	AA	812
7.	Cartridge Seat Ejection Type PK-16	Ammunition Factory, Kirkee	AA	813
8.	Pyrotechnic Igniter Cartridge PV-50	Ordnance Factory, Jabalpur	AA	841
9.	Cartridge Ejector Release Unit No.204 Mk 2 312K/47	Ammunition Factory, Kirkee	AA	842
10.	Cartridge Initiator Rocket Pack-312K /85-4	ARDE, Pune	AA	892
11.	Cartridge Initiator Rocket Pack-312K /85-5	ARDE, Pune	AA	893
12.	Cartridge Shoulder Harness Retraction 312K/85-6	ARDE, Pune	AA	894
13.	Cartridge Seat Ejection Primary 312K/33 & 32 (Secondary)	Ammunition Factory, Kirkee	AA	895
14.	Cartridge PPL-T No.312K/88	Ordnance Factory, Jabalpur	AA	901
15.	Cartridge Relocking Defer -312K/92	ARDE, Pune	AA	911
16.	Cartridge EPK-28-6	ARDE, Pune	AA	916
17.	Cartridge Seat Ejection Drogue	ARDE, Pune	AA	917
18.	Cartridge Squib Operated Cutter R-4 (Sec. Ref.312K /84)	Ordnance Factory, Pune	AA	920
19.	Cartridge Seat Ejection Drogue-312K/90-2	ARDE, Pune	AA	924
20.	Cartridge Rocket Motor 312K/90-5	ARDE, Pune	AA	937
21.	Cartridge Unlocking 312K/90-3	ARDE, Pune	AA	938

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
22.	Cartridge Rocket Motor Initiator 312K/90-4	ARDE, Pune	AA	951
23.	Cartridge Right Hand Firing Handle-312K/90-6	ARDE, Pune	AA	952
24.	Cartridge Harness Automatic Retraction 312K/90-1	ARDE, Pune	AA	953
25.	Cartridge Canopy Jettisoning Set Clamp Steel	ARDE, Pune	AA	954
26.	Cartridge Seat Ejection Primary No.8 Mk-1 (312K/85-1A) & Secondary PMK-1 (312K/85-1B)	ARDE, Pune	AA	961
27.	Cartridge Seat Ejection Guillotine No.3 MK-1 (312K/85-3)	ARDE, Pune	AA	962
28.	Cartridge canopy Jettisoning Primary breech	ARDE, Pune	AA	969
29.	Cartridge electric operated fire extinguisher-312K/41	ARDE, Pune	AA	977
30.	Cartridge squib cable cutter 210 mm 312K/36	Ordnance Factory, Jabalpur	AA	978
31.	Cartridge operating Air intake Shutter PP-9 (312K/80)	ARDE, Pune	AA	985
32.	Igniter Connector Assy. Pt. No. N377-6600-02	M/s MEC Engineers, Bengaluru	NSK	1086
33.	Fuzing Unit (Arming Unit) Pt. No. ME-FU-002	M/s MEC Engineers, Bengaluru	A/C	1120
34.	Cartridge Frangible Pillar (CFP) No.2, Mk 2.	ARDE, Pune	AA	1247
35.	Armour Protection Panels for ALH	D&D by: DMSRDE, Kanpur; Mfd by: M/s Taneja Aerospace & Aviation Ltd., Krishnagiri, Belagondapalli-635114	H/C	1438
36.	Cartridge Manual Separation (CMS)/BTRU	ARDE, Pune	AA	1460
37.	Cartridge Initiator Seat pan (CISP)	ARDE, Pune	AA	1461
38.	LDP Pylon, Pt. No.01L-8H-0060-000-000	D&D by: ARDC, M/s HAL, Bengaluru; Mfd by: M/s HAL, LCA -Tejas Group, Bengaluru	A/C	1801
39.	R-73 dummy missile, Pt. No. 01F-8F-2000-000-00A	D&D by: ARDC, M/s HAL, Bengaluru; Mfd by: M/s HAL, LCA -Tejas Group, Bengaluru	A/C	1802

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
40.	Cartridge PDO-1 Electric Igniter, Pt. No. Sec/Ref. No. 312K/138	ARDE, DRDO,Pune	AA	1885
41.	Ballistic Tail Unit No. TB250 of 250 Kg HSLD Bomb	D&D by: ARDE, Pune Mfd. By: Ordnance Factory,Kolkata	AA	1900

**SECTION 3**  
**Avionic Stores**

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Audio Matching Unit, Pt.No. N24681-A	M/s BEL, Bengaluru	A/C	38
2.	Radio Control & Mixing Box, Pt.No.141-977-12A & 141A-903-35	M/s HAL, A/c, Bengaluru	A/C	57
3.	Radio magnetic indicator Pt. No. 06.01.00.000	M/s HAL, Lucknow	LKO	191
4.	Flasher Unit Type IF-50, Pt.No. AD-141-14	M/s Ava Bhasi Lab., Bengaluru	A/C	219
5.	Blinker (Flasher) unit Type NF 871 for Navigation Lamps	M/s Resa Co., Madras	A/C	278
6.	VHF Ejection Energized Radio Alarm System Type VEER 205	M/s Southern Electronics, Bengaluru	A/C	568
7.	Altitude Switch Pt. No.164900000	M/s HAL, Lucknow	LKO	578
8.	Tail Navigation Light Assembly Pt.No. AHM-05-00A	M/s Arun Hosiery Mills, New Delhi	H/C	665
9.	Altitude Encoder Unit Pt. No.1675-00-000	M/s HAL, Lucknow	LKO	678
10.	Navigation Light Assembly Pt. No. AHM-06-00-01 (Red) & Pt. No. AHM-06-00-02 (Green)	M/s Arun Hosiery Mills, New Delhi	H/C	683
11.	Navigation Light Fitting AHM-06-01A (Red) & 02A (Green)	M/s Arun Hosiery Mills, New Delhi	H/C	730
12.	Altitude Encoder Unit Pt. No.1680.00.000	M/s HAL, Lucknow	LKO	761
13.	Signal Processor unit Pt.No.1720-003-001-87	M/s BEL, Hyderabad	A/C	773
14.	Display unit (DU-2) Pt.No.1720.003.006.72	M/s BEL, Hyderabad	A/C	774
15.	Control Unit-1 Pt.No. 1720.003.007.69	M/s BEL, Hyderabad	A/C	775
16.	Radio Frequency Unit-3 (RFU-3) Pt.No.1720.003.003.81	M/s BEL, Hyderabad	A/C	776
17.	Radio Frequency Unit-1,2&4 Pt.No.1720.003.002.84	M/s BEL, Hyderabad	A/C	777
18.	Multiple output Power Supply Pt.No.1001.025.15	M/s Versabyte Data, Bengaluru	A/C	778
19.	Auxiliary Power Supply Pt.No.1001.028 12	M/s Versabyte Data, Bengaluru	A/C	779
20.	Display Unit-1 Pt.No.1720-003-005-75	M/s BEL, Hyderabad	A/C	780

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
21.	SEL CAL Alarm Unit Pt. No.N144961	M/s HAL, Hyderabad	HYD	810
22.	Altitude Interface Unit Pt. No.HAL-FTC-0182-A/A	M/s HAL, Flight Test Centre, Bengaluru	A/C	854
23.	Amplifier Unit Pt. No.1697 00 000	M/s HAL, Lucknow	LKO	921
24.	Stall Warning Tone Generator Pt. No.ISWG - 940	M/s Integral Systems, Bengaluru	A/C	926
25.	Control Box Unit Pt. No. 2512 00.000	M/s HAL, Lucknow	LKO	935
26.	Compensation Unit 2513.00.000	M/s HAL, Lucknow	LKO	936
27.	Spurious Signal Suppressor Unit Pt. No. SSS. AN-32	M/s Electronic R & D Centre of India,Thiruvananthapuram	A/C	980
28.	Mast moment Signal conditioner Unit MMSC-02	M/s HAL, Fight Test Centre, Bengaluru	H/C	1032
29.	Excitation demodulation Pt. No. SAEDU-20/1	M/s System Aids, Bengaluru	A/C	1080
30.	Low Altitude Audio Warning System Pt. No SA-AAU-001	M/s System Aids, Bengaluru	A/C	1121
31.	Display Processor & Keyboard Micro Module unit Pt.No.AB.250	M/s Comptek, Hyderabad	HYD	1148
32.	Control Panel (Kite) Chetak Pt.No.1720-012-16255	M/s BEL, Hyderabad	HYD	1150
33.	Radio Selector unit , Pt. No. SEERSU72D/1 (Front) & SEERSU74A/1/1 (Rear)	M/s Southern Electronics, Bengaluru	A/C	1156
34.	Control Panel –Kite (Kamov) Pt. No.1720-012-160-61	M/s BEL, Hyderabad	HYD	1159
35.	Front End Receiver Assembly-1720-009-002-29	M/s BEL, Hyderabad	HYD	1161
36.	ESM Processor (Eagle) 1720 009 003 26	M/s BEL, Hyderabad	HYD	1162
37.	RF Unit (Eagle) Pt.No.1720 009 004 23	M/s BEL, Hyderabad	HYD	1163
38.	ESM Processor (Kite) Pt.No. 1720 008 985 80	M/s BEL, Hyderabad	HYD	1164
39.	Signal Monitoring Unit	M/s Kalsi Micro Measurements, Kanpur	KNP	1200
40.	Control Box Pt No. 1663.00.000 for Jaguar Trainer	M/s HAL Accessories Division, Lucknow	LKO	1201
41.	Electronic Module Pt No. CWC-4	M/s Laxtronics Instruments, Nasik	NSK	1202



Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
42.	RAM 1701 AS Pt.No.N146736	M/s HAL, Hyderabad	HYD	1234
43.	Telemetry Transmitter System- 7 Types	M/s Astra Microwave, Hyderabad	HYD	1240
44.	TRAP RF Unit of Tempest System Pt.No.1720 003 381	M/s BEL, Hyderabad	HYD	1243
45.	Solid State Module JNC-3 Assembly Pt.No.KVS-1M(LX-3)	M/s Laxtronics Instruments, Nasik	NSK	1248
46.	Digital Electronics Unit	M/s HAL, Hyderabad	HYD	1251
47.	Display Processor. Pt. No. DP-03020103	M/s HAL, Hyderabad	HYD	1265
48.	Radar Computer-1. Pt. No. RC1-04020103	M/s HAL, Hyderabad	HYD	1266
49.	Radar Computer-2. Pt. No. RC2-05020103	M/s HAL, Hyderabad	HYD	1267
50.	Mission Computer Pt. No. MC-02020103	M/s HAL, Hyderabad	HYD	1268
51.	Transformer Rectifier Unit. Pt. No. 226100000	M/s. HAL, Lucknow	LKO	1269
52.	Solid State Cockpit Voice Recorder-Main Recorder Unit	M/s. Electronic Corp, Hyderabad	HYD	1270
53.	Intermediate Frequency Amplifier (IF. Amplifier)	M/s. Prudent Com., Bengaluru	KNP	1288
54.	Control Box Pt. No. 1664 00 000	M/s. HAL, Lucknow	LKO	1311
55.	VOR/ILS/Marker Receiver Unit ANS1100A	M/s. HAL, Hyderabad	HYD	1315
56.	Combined Map & Electronic Display Screen, Pt. No. AI000014PT	M/s. Astro Optics, Mumbai	KOW	1325
57.	Starter Electronic Control Unit (SECU) Pt. No N145661	M/s. HAL, Hyderabad	HYD	1326
58.	Power Control Unit (PCU) Pt No. N-14 201	M/s. HAL, Hyderabad	HYD	1331
59.	ICU (Rear) Pt No.94-K-00-00-000	M/s. HAL, Korwa	KOW	1337
60.	ICU (Front) Pt No.95-K-00-00-000	M/s. HAL, Korwa	KOW	1338
61.	Tactical Air Navigation T/R Unit No.149901	M/s. HAL, Hyderabad	HYD	1347
62.	Display Unit (AH Meter) Pt. No. 227260000	M/s. HAL Accessories Division, Lucknow	LKO	1384
63.	Frequency Multiplier Unit Pt. No. M45213-1	M/s. Karnataka Tele, Bengaluru	NSK	1427
64.	Linear Frequency Modulation Generator Pt.No. GS2-210-030	M/s. Karnataka Tele, Bengaluru	NSK	1428

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
65.	Modulator Of DME Pt. No. STA/2-081-468 (INDG)	M/s Versabyte Data, Bengaluru	KNP	1433
66.	Accumulator (2.0L) Pt. No. 107300000	M/s HAL Accessories Division, Lucknow	LKO	1435
67.	Store Interface Box-(SIB) Pt. No. 116001346005	Des by: ADA, Bengaluru; Dev & Mfd by: M/s BEL, D&E-EW&A, Bengaluru	HYD	1454
68.	Pylon Interface Box-L (Laser) Pt. No.116001126106	Des by: ADA, Bengaluru; Dev & Mfd by: M/s BEL, D&E-EW&A, Bengaluru	HYD	1455
69.	Pylon Interface Box- (Out Board) Pt. No. 116001126009	Des by: ADA, Bengaluru; Dev & Mfd by: M/s BEL, D&E-EW&A, Bengaluru	HYD	1456
70.	Pylon Interface Box- (PIB)1B/MB/CF Pt. No. 116001125912	Des by: ADA, Bengaluru; Dev & Mfd by: M/s BEL, D&E-EW&A, Bengaluru	HYD	1457
71.	Accumulator Pt. No. 108700000	M/s HAL Accessories Division Lucknow	LKO	1459
72.	MPE-7 Flash Memory Unit 11BRD/LC/Air/11511	M/s AD-Tech, Nasik	NSK	1467
73.	Open Architecture Computer (OAC) for LCA Pt. No. A1K-I5-7200-000-000	M/s ADA, Vimanapura Post, Bengaluru	A/C	1478
74.	Brake Control Hydraulic Engine Electrical Monitoring System	M/s. HAL, Hyderabad	HYD	1481
75.	Altitude Sensor Unit Pt.No. AN 0011 ALTSU V00	M/s Ananya Technologies, Bengaluru	A/C	1487
76.	Cartridge Seat Ejection Guillotine (CSEG) (Sec Ref 312K/22-A)	ARDE, Pashan, Pune	AA	1488
77.	Audio Management Unit AMU1310A Junction Box N149411 & Station Box N144330	M/s HAL, Hyderabad	HYD	1490
78.	Pressure Sensor Unit Pt.No. AN87232282 V01-MOD1	M/s Ananya Technologies, Bengaluru	A/C	1492
79.	DFCC Interface Unit (DIU) Pt. No. ADE-DIU-001	D&D by: ADE, Bengaluru; Mfd by: M/s BEL, Bengaluru	A/C	1512

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
80.	De-icing Current Sensing unit (DCSU) Pt. No. 110002006003	D&D by: ADE, Bengaluru; Mfd by: M/s BEL, Bengaluru	A/C	1523
81.	Ground Power Protection Unit Pt. No.224400000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow	LKO	1536
82.	Cockpit Interface Unit (CIU) Pt. No. CIU-GA-5041 MOD 6	D&D by: ADA, Bengaluru; Mfd by: M/s Spectrum Infotech, Bengaluru	A/C	1537
83.	Interface unit for ATC Pt. No. 180400000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow	LKO	1540
84.	Head Up Display (HUD) Pt. No. 171000175091 MOD-1	D&D by: CSIR-CSIC, Chandigarh; Mfd by: M/s BEL, Panchkula	CHD	1543
85.	Counter Measures Dispensing System (CMDS) Pt. No. 77.03.20.00.00.00.000	M/s BDL, Hyderabad	MSL	1551
86.	Counter Measure Dispensing System (CMDS) Pt. No. 77.03.00.00.00.00.000	M/s BDL, Hyderabad	MSL	1552
87.	Control and Compatibility Unit (CCU)	D&D by: DARE, Bengaluru; Mfd by: M/s BEL, Bengaluru	HYD	1564
88.	Digital Flight Control Computer(DFCC) Pt. No. 09-4633-7071A	D&D by: ADE, Bengaluru; Mfd by:M/s BEL, EW & A, Jalahalli, Bengaluru	A/C	1569
89.	Centralised Warning System (CWS) Pt. No. 2790/GA MOD-1	D&D by: LRDE, DRDO, C.V. Raman Nagar, Bengaluru; Mfd by: M/s HAL, Avionics Division, Hyderabad	HYD	1586
90.	Ground Refueling Panel (GRP) Pt. No. 101 03000 00000 00004	M/s Spectrum Infotech, Bengaluru	A/C	1593
91.	Environmental Control System Control Panel (ECS-CP) Pt.No.ECFM-EU-GA-5013-1	M/s Spectrum Infotech, Bengaluru	A/C	1595

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
92.	Environmental Control & Fuel Monitoring Controller (ECFM-C) Pt.No. 101 03000 00000 00001	M/s Spectrum Infotech, Bengaluru	A/C	1596
93.	Multi Function UP Front Control Panel (MFUFPC) Pt.No.MF-UFCP-101	M/s Deepti Electronics, Bengaluru	A/C	1601
94.	Air Data Computer (ADC) Pt. No. 09-143-7071	D&D by: ADE, DRDO, Bengaluru; Mfd by: M/s BEL, EW & A, Jalahalli, Bengaluru	A/C	1607
95.	Solid State Crash Data Recorder (SSCDR) Pt. No. GC000000-IN20	D&D by: ASERDC, M/s HAL, Korwa; Mfd by:M/s HAL, Avionics Division, Korwa, U.P	KOW	1614
96.	Rudder Pedal Assembly Pt. No.01F-6C-0200-000-00B	D&D by: ARDC, M/s HAL, Bengaluru; Mfd by: M/s HAL, Bengaluru	A/C	1615
97.	Function / Sensor Display Unit (FSDU) Pt.No.1160 013 837 38 MOD1	M/s BEL, Bengaluru	A/C	1617
98.	RAM 1701A T/R unit Pt. No. N141200	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by:M/s HAL Avionics Division Hyderabad	HYD	1618
99.	Modular Stick Assembly Pt. No.01L-6C-2500-000-00C	D&D by: ARDC, M/s HAL, Bengaluru; Mfd by: M/s HAL, Bengaluru	A/C	1619
100.	Wheel Speed Transducer Pt. No. WSS-000B	M/s Transducer, Bengaluru	A/C	1626
101.	DFCC-FTI-RS422 Data Recording Unit Pt.No.A1K-I1-1000-000-00A MOD4	D&D by: ADA, Bengaluru; Mfd by: M/s Compudraw, Bengaluru	A/C	1627
102.	Stores Interface Box (S/B) Pt. No. NPOL-ACL/LCA-SIB/A& ERL-01	M/s Apollo Computing, Hyderabad	HYD	1646
103.	Solid State Cockpit Voice Recorder (SSCVR) Pt.No.MRU-240-28/MRU-240B-28	M/s ECIL, Hyderabad	HYD	1650
104.	RAM 1705A T/R Unit Pt.No.N146910	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by:	HYD	1701

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
		M/s HAL, Avionics Division, Hyderabad		
105.	Standby CWP (IADS), Pt. No.SE-STBYCWP-01(2B2), Version - 2	M/s Southern Electronics, Bengaluru	H/C	1708
106.	Standby CWP (IADS) Pt. No. SE-STBYCWP-01(SHAKTI)	M/s Southern Electronics, Bengaluru	H/C	1709
107.	Solid State Flight Data Recorder (SSFDR) Pt. No.GD100 000	ASERDC, M/s HAL, Amethi	KOW	1718
108.	Centralized warning system CWS-1010A consisting of CWS(EU)-1010A , Pt. No.: N149351 & CWS(DU)-1010A, Pt. No.: N149366	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by: M/s HAL, Hyderabad	HYD	1736
109.	IFF Control unit(1420A), Pt. No.N149326	Hardware D&D, Mfd by: M/s. Datasol, Bengaluru; Software D&D by: M/s HAL, Hyderabad	HYD	1748
110.	Fire warning box, Pt. No.SEFWB-01-ALH	M/s Southern Electronics, Bengaluru.	H/C	1750
111.	GPS Marg 2108 Pt.No.016 10 047 01 00	M/s TATA Consultancy, Bengaluru	A/C	1754
112.	Harpoon controller , Pt. No.N101680	M/s HAL, Avionics Division, Hyderabad	HYD	1752
113.	INCOM-1215A TX RX unit, Pt. No. N146750	M/s HAL, Hyderabad	HYD	1755
114.	Data transfer unit (DTU) , Pt. No.ATS-DTU-01	M/s Auto Tec, Bengaluru	GD (S)	1757
115.	Backup Core Avionics Computer (BCAC) hardware	D&D by: DARE, DRDO, Bengaluru; Mfd by: M/s HAL, Kasaragod, Kerala	HYD	1761
116.	Core avionics computer (CAC)	D&D by: DARE, DRDO, Bengaluru; Mfd by: M/s HAL, Kasaragod, Kerala	HYD	1762
117.	Auto Pilot Panel(APP), Pt. No.A1K-I1-1060-000-00A	D&D by: ADA, Bengaluru; Mfd by: M/s. Compudraw, Bengaluru	A/C	1763
118.	Anti skid control unit, Pt. No.2281 00 000	M/s HAL, Accessories division, Lucknow-226016	LKO	1767

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
119.	Integrally lit cockpit panel (ILCP) Pt. No.1710 003 762 69	M/s BEL,Haryana	CHD	1775
120.	Lighting control panel(LCP) Pt. No.1710 003 838 35	M/s BEL,Haryana	CHD	1777
121.	Solid State Crash Data Recorder Mk II (SSCDR Mk II) Pt.No.GC200000	Mission and combat systems R & D Center, Design complex, HAL, Bengaluru	A/C	1785
122.	Anti skid test unit Pt. No.228500000	M/s HAL, Accessories division, Lucknow	LKO	1786
123.	VOR/ILS Receiver, ANS 2820A (N149241)	M/s HAL, SLRDC, Hyderabad	HYD	1793
124.	Controller and display unit (CDU-2820 A) Pt. No.N149376	M/s HAL, SLRDC, Hyderabad	HYD	1794
125.	Interface unit IFU (ANS-2820A) Pt No. N149390	M/s HAL, Hyderabad	HYD	1795
126.	Incom-1220A Controller unit, Pt. No. N147345	D&D by: SLRDC, HAL, Hyderabad; Mfd by: HAL, Hyderabad	HYD	1796
127.	Switch filter assembly (SFA) of R118 RWR	Des by: DARE, Bengaluru; Dev & Mfd by: M/s BEL, Bengaluru	GD(S)	1799
128.	Signal Processor unit (SPU)	Des by: DARE, Bengaluru; Dev & Mfd by: M/s BEL, Bengaluru	GD(S)	1798
129.	GPS Marg 9801	M/s TATA Consultancy, Bengaluru	H/C	1805
130.	Eagle eye Interface unit of R118 RWR Systems	Des by: DARE, Bengaluru; Dev & Mfd by: M/s BEL, Bengaluru	GD (S)	1806
131.	Solid State Flight Data Recorder (SSFDR) Pt. No.GF000000-01	M/s HAL, Avionic Division, Korwa	KOW	1811
132.	35/MIL 1553B Data Bus Network, Pt. No. HN 300-30	M/s Compupower (Pvt). Ltd. Hyderabad	NSK	1815
133.	Armament Configuration panel Model No. ACP1000HJT Pt.No.E101.01.0000	M/s HAL, SLRDC, Hyderabad	HYD	1828
134.	VOR/ILS/MKR Receiver ANS 1101A Pt.No.N149701	M/s HAL, SLRDC, Hyderabad	HYD	1830



Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
135.	3/4 ATR Chassis of OAC Pt. No.Chasis:ADA-ACL/LCA-3/4ATR/CH/A	M/s Apollo Computing, Hyderabad	HYD	1838
136.	INCOM-1210A Tx/Rx Unit Pt No. N146165	D&D by: M/s SLRDC, HAL, Hyderabad; Mfd by: M/s HAL, Hyderabad	HYD	1839
137.	Solid State Flight Data Recorder (SSFDR) consists of 3 LRU's namely: Data Acquisition Unit (DAU), Recording Unit (RU), Control and Indication Unit (CIU).	For Software Dev: M/s BAeHAL, Bengaluru; For Hardware Dev: M/s SLN Technology, Bengaluru; For Test Rig Dev: M/s Meltronics, Bengaluru. Mfd By: M/s HAL, Avionics Division, Korwa	KOW	1849
138.	Sensor Interface and Processing Unit Pt.No.DP-SIPU-8004-MOD2	M/s. Indus Teqsite, Chennai	A/C	1859
139.	Smart Display Unit (SDU) Pt. No.DP-DSP-8022-MOD3	M/s. Indus Teqsite, Chennai	A/C	1860
140.	TRANS-Receive Electronics with Processor (TRE-P) unit Pt. No.1346100000XX	M/s. Avantel Limited, Hyderabad	HYD	1873
141.	Underfuselage Pylon for Tejas Fighter Aircraft Pt. No.: 01F-8B-0010-000-00C	D&D by: ARDC, M/s.HAL, Bengaluru, Mfd by: M/s.LCA-Tejas Division, HAL, Bengaluru	A/C	1875
142.	Multifunction Upfront Control Panel (MF-UFCP) Pt. No. MF-UFCP 360	M/s Deepti Electronics, Benagaluru	A/C	1880
143.	IFF 2410A Transponder unit (N14945101)	M/s HAL, Avionics Division, Hyderabad	HYD	1883
144.	Link - II (P-8I) System. Pt. No.1100 022 165 90	M/s BEL, Bengaluru	GD(S)	1888
145.	Solid state flight data recorder/Cockpit voice recorder (SSFDR/CVR) Pt. No.GP000000	M/s HAL, Avionics Division, Korwa	KOW	1895
146.	Speech Secrecy System EC4480 for Boeing P-8I	M/s ECIL, Hyderabad	HYD	1897
147.	Navigation Light Controller (NLC) Pt. No.1710 003 83447	M/s BEL, Haryana	CHD	1899
148.	Amber 800A CTK1 Control Unit, Pt. No. C103.04.0000	D&D by: SLRDC, Avionics Division, M/s. HAL, Hyderabad Mfd. By: M/s. HAL Avionics Division,	HYD	1903

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
		Hyderabad		
149.	Missile Launch Detection & Sensor unit for Cheetak Platform	M/s. Alpha Design, Bengaluru	GD(S)	1912
150.	Cable Radio Frequency Flexible Tri-axial 75 ohms	M/s Flu – Tef Industries, Ahmedabad	H/C	1913
151.	Air Data Unit, ADU-2650	M/s HAL, SLRDC, Hyderabad	HYD	1920
152.	Solid State Flight Data Recorder (SSFDR) MKII Pt. No. GE2000000	M/s HAL, Avionics Division, Korwa,	KOW	1923
153.	RAM Altimeter (RAM) Digital Indicator (DI) 1735A, Pt. No. N165110	SLRDC, Radar Division, M/s HAL, Hyderabad	HYD	1930
154.	Jaguar Mission Computer Pt. No. 06030202	D&D by: DARE, DRDO, Bengaluru Mfd by: SCF, M/s HAL, Kerala	HYD	1935
155.	Trans Receive Electronics (TRE) Unit Pt. No. 1342200000XX	M/s Avantel Limited, Hyderabad	HYD	1938
156.	Solid State Cockpit Voice Recorder (SSCVR), MRV-600/600B-28, JBX – 600, CL-28-45	M/s ECIL, Servo System Division, Hyderabad	HYD	1939
157.	TACAN (Tactical Air Navigation) 2901A, Pt. No. N148151	M/s SLRDC, Hyderabad	HYD	1941
158.	Inter Connection Unit (ICU-REAR) Pt. No. LR 000000	M/s HAL, Avionics Division, Korwa Amethi	KOW	1944
159.	Flare Chaff Dispenser (F.C.D) Version-08	M/s BDL, Design & Engineering Division, Hyderabad	MSL	1948
160.	Cabin Shut Off (CBSOV) Pt. No. 1238-00-000	M/s HAL, Accessories Division, Lucknow	LKO	1951
161.	Four Coil Speed Sensor Pt. No. 110-128-000-011	M/s Polynex, Bengaluru	H/C	1952
162.	Identification of friend or Foe Interrogator (IFFI) MKX1 System Pt. No.1430-326-10030	M/s BEL, Ghaziabad	GD(S)	1954
163.	Digital Video Recorder (DVR) Pt. No.062-DVR for Mirage 2000 A/c	M/s MEL Systems, Chennai	A/C	1955



Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
164.	Station Box Pt. No.N149441	M/s HAL, SLRDC, Hyderabad	HYD	1958
165.	Junction Box Pt. No.N149441	M/s HAL, SLRDC, Hyderabad	HYD	1959
166.	RAM 2700A Pt. No. N149650	D&D by: M/s HAL, SLRDC, Hyderabad ; Mfd by: M/s HAL, Avionics Division, Hyderabad	HYD	1964
167.	Pylon interface Box -outboard (Naval) Pt. No. 110002180409	Des by: ADA, Bengaluru, Mfd. By: M/s BEL (EW&A), Bengaluru	HYD	1974
168.	IFFT240A Transponder Pt. No.N149452	D&D by: M/s SLRDC, HAL, Hyderabad; Mfd by: M/s HAL, Avionics Division, Hyderabad	HYD	1976
169.	Tactical Air Navigation (TACAN) 2901AJ Pt. No.N149015	SLRDC, M/s HAL, Hyderabad	HYD	1978
170.	Power Suply System (PSS) of AEW&C - 2 Parts	D&D by: CABS,DRDO, Bengaluru Mfd by: M/s Cornet Technology, Chennai & M/s Versabyte Data, Bengaluru	GD(S)	1979
171.	Active Antenna Array Unit (AAAR) of AEW&C – 8 Parts	D&D by: CABS,DRDO, Bengaluru Mfd by: 1) M/s Mistral Solutions Pvt. Ltd., Bengaluru 2) M/s Astra Microwave Product Ltd., Hyderabad 3) CABS,DRDO, Bengaluru & 4) Versabyte Data, Bengaluru	GD(S)	1980
172.	Operator Work Station (OWS) of AEW&C	D&D by: CABS,DRDO, Bengaluru Mfd by: Alligator Design, Bengaluru	GD(S)	1981

Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
173.	Cabin Altitude Warning (CAW) of AEW&C Pt.No.A03-CAWM-01R	D&D by: CABS,DRDO, Bengaluru Mfd by: Lead Solutions, Bengaluru	GD(S)	1982
174.	Mission System Controller (MSC) of AEW&C – 3 Parts	CABS,DRDO, Bengaluru	GD(S)	1983
175.	Mission Computer-2, Pt. No. M1020200000	M/s MCSRDC, HAL, Bengaluru	A/C	1988

**SECTION 4**  
**Batteries**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Fida A/c Battery Type 12.19/25	M/s Free India, Kolkata	A/C	41
2.	Fida A/c Battery Type 24.19/25	M/s Free India, Kolkata	A/C	42
3.	Silver Oxide Zinc Storage Battery 22.5V 45AH, 1 hr rate Type: SIMEC 56-15-1 Pt.No.15-STSS-45B	M/s. SIMCO Meters Limited, Madras	A/C	342
4.	Silver Oxide Zinc Storage Battery 45AH Type HBL-SZ-45AH	M/s HBL Power, Hyderabad	HYD	605
5.	Nickel Cadmium Battery, 24V-23 AH, Type NC-SP-B-23060	M/s HBL Power, Hyderabad	HYD	726
6.	Battery Secondary Ni Cad Vented Sintered plate 24V, 40AH, 1hr rate Pt.No.NC-001, Cell Pt. No. NC-40 for Jaguar Striker & Trainer A/c	M/s HEB, Tamilnadu	A/C	789
7.	Battery Secondary Ni Cad Vented Sintered plate 24V, 40AH, 1hr rate Pt.No.NC-115, Cell Pt.No.NC-40	M/s HEB, Tamilnadu	A/C	790
8.	Battery Secondary Ni Cad Vented Sintered plate 24V, 40AH, 1hr rate Pt.No.NC-001, Cell Pt.No.NC-40 for Mirage-2000 A/c	M/s HEB, Tamilnadu	A/C	791
9.	Battery Secondary Ni Cad Fibretech Vented Sintered plate 24V, 25AH, 2.5hr Rate, Bat Pt.No.20NK-BN-25-U, Cell Pt.No. SP-C-22150	M/s HEB, Tamilnadu	A/C	792
10.	Battery Secondary Ni Cad Fibretech Vented Sintered plate 24V, 18AH, 1 hr rate Pt.No.5J/3388 Type FT NC-076 & Cell Pt.No. 5J/NIV/K1	M/s HEB, Tamilnadu	A/C	793
11.	Battery Secondary Ni Cad Fibretech Vented Sintered plate 24V, 25 AH Bat Type FTNC-0202(IL 76), Cell Pt.No. NC-SP-C-22150	M/s HEB, Tamilnadu	A/C	795
12.	Primary Lithium Thionyl Chloride Bat Pt. No. LiSoCl <sub>2</sub>	M/s HBL Power, Hyderabad	HYD	1025

13.	Ni CAD Bat 24V,40AH NL-SPB40060A & NCSPB 40060B	M/s HBL Power, Hyderabad	HYD	1033
14.	Ni CAD Bat 24V,25AH, 2.5Hr	M/s HEB, Tamilnadu	CHD	1039
15.	Ni Cad Bat NCSPB-25150-MT, 24V, 25AH	M/s HBL Power, Hyderabad	HYD	1041
16.	Ni Cad Bat for IL-76 A/C, 24V, 25AH	M/s HBL Power, Hyderabad	HYD	1048
17.	Ni Cad Bat for AN-32, 24V, 25AH	M/s HBL Power, Hyderabad	HYD	1049
18.	Lead acid A/C Bat Type 12 AM 28-MTE	M/s Mysore Thermo, Bengaluru	A/C	1112
19.	Ni Cad Bat 24V, 18AH Type FTNC-0160 cell Type FTNC-18	M/s HEB, Tamilnadu	A/C	1123
20.	Ni Cad A/C Bat 24V, 18AH Type SPB: 18060B	M/s HBL Power, Hyderabad	HYD	1132
21.	Ni Cad Bat 24V, 25AH (1Hr rate) – FTNC-0155	M/s HEB, Tamilnadu	NSK	1241
22.	Nickel Cadmium aircraft Battery 24V, 25AH, 2.5 hr rated for An-332 A/c	M/s HEB, Tamilnadu	CHD	1281
23.	Nickel Cadmium aircraft Battery 24V, 16AH, Pt.No. Type NC 250, Cell type NC-16	M/s HEB, Tamilnadu	KNP	1470
24.	Nickel Cadmium aircraft Battery 24V, 27AH type NCSP B 27060	M/s HBL Power, Hyderabad	HYD	1485
25.	Battery Junction Box Pt No. 229700000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by:M/s HAL, Accessories Division, Lucknow	LKO	1621
26.	Nickel Cadmium Aircraft Storage Battery 24V,27AH Type NCSP B 27060M RM	M/s HBL Power, Hyderabad	HYD	1831
27.	Non Rechargeable PRB Battery of SARBE-8 Equipment	M/s BEL,Pune	NSK	1953

**SECTION 5**  
**Brake Pads**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Metal Ceramic Sectors (I) KT-102-42	M/s Mahindra Sintered, Pune	NSK	401
2.	Metal Ceramic Sectors (I) KT-89-81-1M	M/s HAL Hyderabad	NSK	402
3.	HPT-32 Organic Brake Pad Pt.No.HAL 88874 & HAL 88875	M/s HAL (F&F), Bengaluru	A/C	587
4.	Inorganic Brake Pads Pt.No.HF-89028/2 for Kiran MK II	M/s HAL (F&F), Bengaluru	A/C	717
5.	Brake Disc Pt. No. HF-500 2062 for Dornier	M/s HAL (F&F), Bengaluru	KAN	845
6.	Brake Pads ,Islander HF 15B 006-06200, HF 15B 006-06500	M/s HAL (F&F), Bengaluru	F&F	847
7.	Locating Pad Pt. No. 25627	M/s HAL, Lucknow	LKO	864
8.	Insulator Pad Pt. No. HAL 84538	M/s HAL (F&F), Bengaluru	F&F	943
9.	Insulator Pad Pt. No. HAL-83149	M/s HAL (F&F), Bengaluru	F&F	983
10.	Brake Lining Pt. No. 155P-324D-2020-202A	M/s HAL (F&F), Bengaluru	F&F	1000
11.	Brake Pad / Lining Pt. No.9521592-1	M/s HAL (F&F), Bengaluru	F&F	1001
12.	Organic Brake Pads Pt.No.HAL 83741 & HAL 83742	M/s Rane Brake Linings, Chennai	F&F	1138
13.	Brake Pads- 3 Types (Rotor, Stator)	M/s HAL (F&F), Bengaluru	F&F	1206
14.	Brake Pads- 4 Types for Main wheel of MiG-27	M/s HAL (F&F), Bengaluru	F&F	1208
15.	Brake Pads for Nose Wheel of MiG-21 Pt.No.HF-KT-102-42	M/s HAL (F&F), Bengaluru	F&F	1214
16.	Brake Pads for Main wheel & Nose Wheel of MiG-21 (Pt.No.KT89-91M, KT89-94M, KT92-82-01)	M/s HAL (F&F), Bengaluru	F&F	1216
17.	Brake Pads for Pt. No.15801000-113(HF-85859/1)	M/s HAL (F&F), Bengaluru	F&F	1341
18.	Modified Organic Brake Pads for HPT-32	M/s HAL (F&F), Bengaluru	F&F	1348
19.	Carbon-Carbon Brake Discs (MARK-III)Components for LCA (Airforce version)	D&D by: M/s HTCC, DRDO, Hyderabad; Mfd by: M/s Graphite India, Bengaluru	MAT	1712

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
20.	MiG-29 Brake Pads – 3 Types	M/s HAL (F&F), Bengaluru	F&F	1896

**SECTION 6**  
**Communication Systems**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Preset Control Unit, Pt. No. 324-93144	M/s HAL, A/c, Bengaluru	A/C	44
2.	IFF MK III Ground Eqpt.	M/s Physical Research Lab., Ahmedabad	D.Aero	75
3.	Magnetron Type BEL AJ52A	M/s BEL, Bengaluru	HYD	97
4.	Preset Control Unit, Pt. No 324-93198	M/s HAL, A/c, Bengaluru	A/C	117
5.	IFF MK-X (BAT) Airborne Equipment & Control unit (Integrated Version)	M/s HAL Hyderabad	HYD	134
6.	IFF MK-X (BAT) Airborne Equipment & Control unit (Integrated Version)	M/s HAL Hyderabad	HYD	145
7.	Solid State Marker Receiver SSMR-I	M/s HAL Hyderabad	HYD	158
8.	Control Unit (Split Version) For IFF MK-II X (BAT) Equipment	M/s HAL Hyderabad	HYD	162
9.	VHF Control Unit Pt. No. 145-93096	M/s HAL, A/c, Bengaluru	A/C	211
10.	VHF Solid State Selector Pt. No 1100.000.15369	M/s HAL, A/c, Bengaluru	A/C	212
11.	Audio Mixing & Preamplifier Unit (Type No.AMB-1, Pt. No. AD-161-14) for Ajeet A/c	M/s Ava Bhasi Lab. Bengaluru	A/C	213
12.	Preset Control & Programming Unit Pt. No. 324-93039 & 324-93040) for DFA-73 ADF System	M/s HAL, A/c, Bengaluru	A/C	214
13.	Intercom System for Cheetah Helicopter	M/s Southern Electronics, Bengaluru	H/C	229
14.	UHF Sleeve Antenna (Assembly Drg No.DLRL-069)	DLRL, Hyderabad	HYD	239
15.	Radio Set ANPRC-25 (Transistorised)	M/s BEL, Bengaluru	A/C	240
16.	Intercom Unit Type ICU -101	M/s Southern Electronics, Bengaluru	A/C	250
17.	Receiver & Passive Controller of ADF ARC-600A	M/s HAL, Hyderabad	HYD	251

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
18.	Controller Unit & Digit Generator ADF ARC-600A	M/s HAL, Hyderabad	HYD	319
19.	IFF 400AM (JAT) Eqpt.	M/s HAL, Hyderabad	HYD	325
20.	Control Unit Pt. No. 324-63091 & Diode and resistance box Pt. No. 324-63097 Issue "D"	M/s HAL, A/c, Bengaluru	A/C	328
21.	Cyrus equipment	DLRL, Hyderabad	HYD	332
22.	Quadrantal error Corrector & Loop ACE, Susceptiformer, Sense Aerial Cable Equaliser	M/s HAL, Hyderabad	HYD	336
23.	VHF Airborne Transreceiver COM 104A	M/s HAL, Hyderabad	HYD	359
24.	Personal Rescue Beacon PRB-78 (less Battery)	M/s ECIL, Hyderabad	HYD	360
25.	V/UHF Trans receiver VUC 201A	M/s HAL, Hyderabad	HYD	368
26.	Radio Altimeter Transreceiver RAM-700A	M/s HAL, Hyderabad	HYD	374
27.	Radio Altimeter Digital Indicator RAM-700AI	M/s HAL, Hyderabad	HYD	375
28.	Cockpit Voice Recorder Model MRV 101 / CU 101	M/s ECIL, Hyderabad	KNP	378
29.	Control Unit N140390 For COM 104A/COM 150A Eqpt.	M/s HAL, Hyderabad	HYD	388
30.	Control Unit N140397 & Dual controller N140370 For COM 104A/COM 150A Eqpt.	M/s HAL, Hyderabad	HYD	429
31.	Integrated Control Unit CU2/VUC 201A for V/UHF Eqpt. VUC 201A	M/s HAL, Hyderabad	HYD	431
32.	Split Control Unit CUI / VUC 201A For V/UHF Eqpt. VUC 201A	M/s HAL, Hyderabad	HYD	432
33.	VHF for COM Eqpt. COM 105A	M/s HAL, Hyderabad	HYD	434
34.	Control Unit Type N142020 for VHF COM Eqpt. COM 105A	M/s HAL, Hyderabad	HYD	435
35.	Two Digit Channel Indicator "SERVEL"	M/s Servo Electronics, New Delhi	A/C	446
36.	VHF High Pass Filter Type N1404458	M/s HAL, Hyderabad	HYD	460
37.	Audio Interface Unit Type N140363	M/s HAL, Hyderabad	HYD	462



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
38.	Control unit type N140399 (Ajeet) for COM 104A/105A	M/s HAL, Hyderabad	HYD	464
39.	Audio Interface Unit Type N143100	M/s HAL, Hyderabad	HYD	466
40.	Central Audio Switching & Amplification Unit ICAU-10	M/s Integral Systems, Bengaluru	A/C	484
41.	Central Audio Switching & Amplification Unit Type ICAU-10AM	M/s Integral Systems, Bengaluru	A/C	485
42.	Cockpit Voice Recorder Comprising MRU-101 Series & CU-101	M/s ECIL, Hyderabad	HYD	493
43.	ADF ARC 610A System Comprising Receiver Type N140301, CU Type N140340 and IU Type N140320	M/s HAL, Hyderabad	HYD	502
44.	VHF Whip Antenna Type AD-201	M/s Ava Bhasi Lab, Bengaluru	H/C	507
45.	UHF Standby Transreceiver COM-150A Type N143001	M/s HAL, Hyderabad	HYD	523
46.	VHF Guard Receiver VGR-101R Type N141001	M/s HAL, Hyderabad	HYD	535
47.	COM-326A-HF-SSB System, COM-327-HF-SSB System	M/s HAL, Hyderabad	HYD	567
48.	Audio Interface unit Type N140785	M/s HAL, Hyderabad	HYD	602
49.	Audio Interface unit Type N144150	M/s HAL, Hyderabad	HYD	606
50.	Audio Interface unit Type N143105	M/s HAL, Hyderabad	HYD	607
51.	Transponder IFF-405A Type N142190	M/s HAL, Hyderabad	HYD	643
52.	Mike Interface Unit Type N143107	M/s HAL, Hyderabad	HYD	644
53.	Mike Adaptor Unit Type N140778	M/s HAL, Hyderabad	HYD	647
54.	Homing Interface Unit Type N143213	M/s HAL, Hyderabad	HYD	650
55.	UHF Homing System UHS-190A Type N143200	M/s HAL, Hyderabad	HYD	654
56.	Command Switching unit Type N140482	M/s HAL, Hyderabad	HYD	666
57.	Controller Interface Unit Type N140488	M/s HAL, Hyderabad	HYD	674
58.	Controller Interface (HF) Unit Type N144951	M/s HAL, Hyderabad	HYD	679
59.	Intercom System for Chetak H/c consisting of Junction, Control & Filter Boxes	M/s Southern Electronics, Bengaluru	H/C	718

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
60.	Boom Micro Phone Pt. No BM-00-00	DEBEL, Bengaluru	H/C	731
61.	IFF Antenna Type LC-1001	Sameer, Mumbai	HYD	747
62.	V-UHF Antenna Type LC-2001	Sameer, Mumbai	HYD	748
63.	UHF Antenna Type LC-3001	Sameer, Mumbai	HYD	749
64.	C Band Antenna Type LC-4001	Sameer, Mumbai	HYD	750
65.	Cavity backed Spiral Antenna Type SA-218	Dev by: DEBEL, Bengaluru; Mfd by: M/s Advanced Radio, Hyderabad	HYD	784
66.	Common Interface unit Type N 144168	M/s HAL, Hyderabad	HYD	798
67.	Coupled Cavity Traveling wave Tube Pt.No.BCCT2000X	M/s BEL, Bengaluru	A/C	931
68.	Control Unit Pt No.142652	M/s HAL, Hyderabad	HYD	993
69.	IFF 1410A Transponder Unit N142580	M/s HAL, Hyderabad	HYD	1002
70.	Head Set with Boom Microphone Pt. No.9208	M/s Radio Craft, Bengaluru	H/C	1052
71.	Ground Crew Jack Box Pt No.SE GC JB 01	M/s Southern Electronics, Bengaluru	A/C	1079
72.	ADF Loop Aerial Pt. No. JM 708	M/s Verdant Telemetry, Cochin	A/C	1089
73.	Junction Box Pt. No. SEEJB-72D/1	M/s Southern Electronics, Bengaluru	A/C	1095
74.	Radar Altimeter Antenna Pt. No.RAA-01	Sameer, Chennai	A/C	1122
75.	UHF Communication Transreceiver COM 1150A	M/s HAL, Hyderabad	HYD	1209
76.	Dual Redundant Common Interface Unit	M/s HAL, Hyderabad	HYD	1339
77.	Junction Boxes- 3 Types	M/s Southern Electronics,Bengaluru	H/C	1369
78.	Cavity Backed Spiral Antenna (Freq: 0.5-18 GHz) Pt.No.4767 723 501 96	M/s ACD Communication, Hyderabad	HYD	1381
79.	UHF Communication Transceiver Com-1150 A	M/s HAL, Hyderabad	HYD	1423
80.	Cavity Backed Spiral Antenna With Radome (Freq:1-18 GHz)	Dev by: DLRL, Hyderabad & Mfd by: M/s ACD Com., Hyderabad	HYD	1437

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
81.	Speech Secrecy system EC-4480 Pt No 49-20165000	M/s ECIL, Hyderabad	HYD	1458
82.	Central Audio Switching & Amplification Unit Pt No.ICAU-10MKII	M/s Integral Systems, Bengaluru	A/C	1477
83.	Income Antenna Relay Module Pt. No.N.148611	M/s Navanidhi Electronics, Hyderabad	HYD	1496
84.	ADF LOOP Aerial Pt. No JM 705	M/s Verdant Telemetry, Cochin	HYD	1498
85.	Antenna Platform Unit (APU) Pt. No.14-A2-03-00-000	M/s ECIL, Hyderabad	HYD	1511
86.	Signal Processor Unit (SPU) BEL Pt. No. 110001886402	D&D by: DARE, Bengaluru; Mfd by: M/s BEL, Bengaluru	HYD	1563
87.	MMR Antenna Pt. No. LRDE/SK No. 2847/S1	M/s LRDE, DRDO, Bengaluru	HYD	1585
88.	VOR/ILS/Marker Receiver Unit -ANS1100AL Pt. No.N 149200	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by: M/s HAL, Avionics Division, Hyderabad	HYD	1608
89.	IFF-1420AL Transponder Unit Pt. No. 149161	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by: M/s HAL, Avionics Division, Hyderabad	HYD	1610
90.	Transient Suppressor Unit (TSU) Pt. No. TSU-01	D&D by: ADA, Bengaluru; Mfd by: M/s Compupower (P) Ltd, Hyderabad	A/C	1612
91.	Audio Management Unit AMU- 1315A	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by: M/s HAL, Avionics Division, Hyderabad	HYD	1613
92.	Front End Receiver (FERX) Assy. Pt. No. 172100042377	M/s BEL, Hyderabad	HYD	1664
93.	Audio Mangement Unit (AMU): Pt No. N149420, N14743,1 N147432	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by: M/s HAL, Avionics Division, Hyderabad	HYD	1700
94.	X-Band mono-pulse comparator-MMR Antenna, Pt No.SMR(K)/LCA/X-COMP/10	M/s Sameer, Kolkata	HYD	1711
95.	INCOM 1220A Transceiver(TX RX)Unit, Pt. No.N147355	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by: M/s HAL, Hyderabad	HYD	1715

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
96.	VOR/ILS/MKR Receiver ANS2810A	M/s HAL, SLRDC, Hyderabad	HYD	1751
97.	IFF 1420A Transponder	M/s HAL, SLRDC, Hyderabad	HYD	1768
98.	Cavity backed spiral antenna with radome	Designed by: DARE, Bengaluru; Developed & Mfd by: M/s BEL., Bangalore	GD (S)	1797
99.	Advanced Communication System (ACS) 235 TX/RX Unit Pt. No. N 148025	M/s HAL, SLRDC, Hyderabad	HYD	1829
100.	100 Ohms Digital Video Cable Pt. No.1026A2S06-4CS06	M/s Flu – Tef, Ahmedabad	H/C	1851
101.	Master Warning Flasher Unit Pt. No. MWF09-01	M/s. Datasol, Bengaluru	H/C	1855
102.	TACAN Air Navigation T/R Unit TACAN 2915A Pt. No.N165160	M/s. HAL, SLRDC, Hyderabad	HYD	1861
103.	Antenna Unit, Pt. No. 1344100000XX	D&D by: Avantel, Hyderabad Mfd by: Avantel, Vishakapatnam	HYD	1876
104.	AMBER800A CTK1 Tx/Rx Unit, Type No.: C103.05.0000	M/s HAL, SLRDC, Hyderabad	HYD	1914
105.	RAM 1735A T/R Unit, Pt. No. N165100	D&D by: M/s. HAL, SLRDC, Hyderabad Mfd. by: M/s. HAL, Avionics Division, Hyderabad	HYD	1915
106.	MSS Antenna Radome Pt. No. 13542000XXXX	M/s Avantel Limited, Hyderabad	HYD	1927
107.	Primary Radar for EMB 14SI-AEW&C Aircraft	D&D by: LRDE, Bengaluru; Mfd by: i)M/s Mistral Solution, Bengaluru & ii)M/s Astra Microwave, Hyderabad	GD(S)	1940
108.	Secondary Surveillance Radar for AEW&C Aircraft – 2 Units	<u>IFF signal processing and MSc Controller unit:</u> CABS , DRDO , Bengaluru <u>Transmit Receive Unit:</u> D&D by: CABS, Bengaluru & BEL, Ghaziabad Mfd by: M/s BEL, Ghaziabad	GD(S)	1943

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
109.	V/UHF Blade Antenna Pt. No. Verdant JD 370	M/s Verdant, Cochin	GD(S)	1968
110.	Communication System Measure (CSM) of AEW&C – 6 Parts	DLRL,DRDO, Hyderabad	GD(S)	1984
111.	Solid State Flight Data Recorder System, Pt. No. GQ0000000	M/s HAL,Avionics Division, Korwa	KOW	1989
112.	GPS Antenna, Pt. No. S01D101-D6	M/s Spectrum Antenna & Aviation Systems (P) Ltd, Cochin	GD (S)	1994

**SECTION 7**  
**Electrical Wires & Cables**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	High Temperature Electrical Cables	M/s Garg Associates, U.P	A/C	9
2.	Tinned Copper Flexible Cable Braids	M/s Metal Cloth, Bengaluru	A/C	10
3.	Nyvin Type Electrical Cables-16,18, 20 & 22	M/s. Henley Cables, Pune	A/C	12
4.	Cable straps and studs (Flexible Nylon Strapping. CAT No.SC-1 & CAT No.SS3)	M/s Mayfair Electricals, Kolkatta	A/C	14
5.	Pren Type Electrical Cables for Aircraft	M/s Henley Cables, Pune	A/C	15
6.	Flexible Nylon Cable Strapping 12.5 mm, CAT No. SC-2	M/s Mayfair Electricals, Kolkatta	A/C	23
7.	Tinned Copper Flexible Cable Braids	M/s Metal Cloth, Bengaluru	A/C	48
8.	Unipren & Uninyvin Cables	M/s Western Insulated, Pune	A/C	49
9.	Uninyvinmet Cables 14, 12,10 & 8	M/s Western Insulated, Pune	A/C	72
10.	Uninyvin Type Electrical Cables Group 1, Cable sizes 22,20,18 & 16	M/s Western Insulated, Pune	A/C	81
11.	Braided Wire For Electrical Bonding	M/s Metal Cloth, Bengaluru	A/C	140
12.	Para Mini Flex & Para Mini Flexmet Cables of sizes 0.35, 0.75, 1.0, 1.5, 2.5 sq.mm.	M/s Indian Cable, Pune	NSK	380
13.	Aircraft Cables (Pranyvin 500. 600 & 700 series parts)	M/s Indian Cable, Pune	A/C	421
14.	Electrical Cables (Duparanytefmet sheath cables, Triparanytefmet sheath cables)	M/s Indian Cable, Pune	A/C	447
15.	Tinned Copper Flexible Cable Braides	M/s Metal Cloth, Bengaluru	A/C	515
16.	Aircraft Cables – 12 Types	M/s Indian Cable, Pune	A/C	533
17.	Para Tefmet sheath Hex T-200-NPC & Paranyflon T-140-ATC	M/s Indian Cable, Pune	A/C	593

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
	type cables			
18.	Uninyvin Cables Groups I,II,III & IV	M/s Jai Bharat Industries, New Delhi	A/C	667
19.	Kapton Polymide Wires & Cables	M/s Sanghvi Aerospace, Ahmedabad	A/C	673
20.	Light Weight Series Flexible PTFE, PFA/FEA Insulated Cables, UNIFLOR types	M/s Universal Cables, M.P	A/C	767
21.	Electrical Wires MIL-W-22759/80A-To 92A	M/s Sanghvi Aerospace, Ahmedabad	A/C	882
22.	Electrical Wires MIL-W-22758/80-To 92 Cables	M/s Sanghvi Aerospace, Ahmedabad	A/C	883
23.	Electrical Wires & cables, High Tech Polyamide Insulated	M/s Sanghvi Aerospace, Ahmedabad	A/C	884
24.	High Temp & High Voltage Ignition Cables	M/s Jai Bharat Industries, New Delhi	KPT	885
25.	BIN wires & cables Pt. No.JB-777-0035, JB-777-050, JB-777-075	M/s Jai Bharat Industries, New Delhi	KPT	886
26.	PTFE Electrical wires and cables 26-4 AWG	M/s Radiant Cables, Hyderabad	HYD	889
27.	PTFE /Polyimide tape insultated, sintered electrical wires and cables 26-4	M/s Radiant Cables, Hyderabad	HYD	890
28.	PTFE Electrical wires and cables 26-4 AWG	M/s Radiant Cables, Hyderabad	HYD	891
29.	PTFE insulated fiber glass braided and lacquered wires & cables	M/s Sanghvi Wire, Ahmedabad	A/C	896
30.	Aircraft Cables 6 Types	M/s Jai Bharat Industries, New Delhi	NSK	897
31.	Aircraft Cables 4 Types (MGSHV,MGSHVE,MGSHV-1,MGSHVE-1)	M/s Jai Bharat Industries, New Delhi	NSK	898
32.	A/c Cables 4 Types (BPVL,BPVLE,BPVLM,BPVLME)	M/s Jai Bharat Industries, New Delhi	NSK	899
33.	Cables- Radio frequency Co-axial flexible & semi grid with PTFE Dielectric	M/s Flu Tef Industries, Ahmedabad	A/C	918
34.	Fire resistant wires and cables	M/s Sanghvi Aerospace, Ahemedabad	A/C	925



Sl. No	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
35.	PTFE electrical cables 177T, 178T, 1177T & 1178T	M/s Flu Tef Industries, Ahmadabad	A/C	1015
36.	PTFE electrical wires & cables Product No.250NT & 1250NKT	M/s Flu Tef Industries, Ahmadabad	A/C	1016
37.	PTFE electrical wires & cables Product No.140T-24 to 140T-10 (8 types) & 1140T-26-1 to 1140T-14-6 (32 types)	M/s Flu Tef Industries,Ahmedabad	A/C	1017
38.	K Type Thermo Couple Extension wires & cables	M/s Sanghvi Aerospace, Ahemedabad	A/C	1031
39.	Data Bus Cable Pt. No. 10614	M/s Flu Tef Industries,Ahmedabad	A/C	1062
40.	RF Coaxial Pt. No.Fcox 1000 and ADF Cable Pt/N Fcox 1000-4	M/s Flu Tef Industries,Ahmedabad	A/C	1063
41.	PTFE Wires & cables 3 Core (Filotex type ETUDE 19369)	M/s Flu Tef Industries, Ahmedabad	A/C	1064
42.	Polyimide Insulated wires & Cables 40 Types	M/s Sanghvi Aerospace, Ahemedabad	NSK	1068
43.	75 Ohm Tri axial Cable Pt. No. 7528 AT (Triax)	M/s Flu Tef Industries,Ahmedabad	NSK	1087
44.	1553 Data bus Cable Twinax single shield Pt. No. F10612T	M/s Flu Tef Industries,Ahmedabad	NSK	1088
45.	Electrical wires & Cables Type BPGRL	M/s Uniflex Cables, Umbergaon, U.P	NSK	1090
46.	Electrical wires & Cables SA-EQ-MGSHV & SA-EQ-MGSHVE	M/s Sanghvi Aerospace, Ahmedabad	NSK	1117
47.	Electrical wires & Cables Type SA-ER-MGTPL & SA-EQ-MGTPL	M/s Sanghvi Aerospace, Ahmedabad	NSK	1119
48.	RF Coaxial (ADF Cable) 4 core electrical Pt.No.FXOX 1000-4S	M/s Flu Tef Industries,Ahmedabad	A/C	1124
49.	Electrical wires & Cables Type SA-EQ-BIN & SA-EQ-BINE	M/s Sanghvi Aerospace, Ahemedabad	NSK	1126
50.	Twinax Electrical Wire & Cable 120 Ohms Pt.No.2524A2S06	M/s Flu Tef Industries, Ahmedabad	A/C	1180
51.	P.T.F.E Electrical Wires & Cables	M/s Sanghvi Aerospace, Ahmedabad	A/C	1181
52.	Magnet wire Heavy Film Insulated Aeromatic polyimide lacquered	M/s Sanghvi Aerospace, Ahmedabad	A/C	1182



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
	round Cu Wire			
53.	Polymide/PTFE Insulated Electrical wires & Cables	M/s Sanghvi Aerospace, Ahmedabad	A/C	1207
54.	Fuel Gauge Coaxial Cable Pt. No.F4006	M/s Flu Tef Industries,Ahmedabad	A/C	1215
55.	Polymide/PTFE Insulated Electrical wires & Cables	M/s Sanghvi Aerospace, Ahmedabad	NSK	1232
56.	Tin Plated Tubular Copper Braids 7-Types	M/s Sanghvi Aerospace, Ahmedabad	NSK	1256
57.	PTFE+Polymide+Glass Fibre Thread Insulated Ni ElectroPlated Cu electrical wires & cables	M/s Sanghvi Aerospace, Ahmedabad	NSK	1361
58.	PTFE Polyimide Insulated Electrical Wires & Cables	M/s Sanghvi Aerospace, Ahmedabad	NSK	1434
59.	Electrical Wires & Cables Type: SAMS 16/26/36-13/33 SAMSE 16/26/36-13/33 SAMSEO 16/26/36-13/33	M/s Sanghvi Aerospace, Ahmedabad	NSK	1691
60.	Electrical Wires & cables Type: SA-EQ-MS 16/26/36-P & SA-EQ-MSE 26-P	M/s Sanghvi Aerospace, Ahmedabad	NSK	1692
61.	Polymide Wires And Cables-6 Types, Pt. Nos. SABIFM, SABIFM-N, SABIFME, SABIFME-N, SABIFMEZ, SABIFMEZ-N	M/s Sanghvi Aerospace, Ahmedabad	NSK	1841
62.	100 Ohms Digital Video Cable	M/s Flu – Tef Industries, Ahmedabad	H/C	1851
63.	Fluoro Polymer Insulated Radiation Cross Linked Modified ETFE Wires & cables with TIN/silver/Nickel plated Copper Conductors	M/s. Radiant Cables, Hyderabad	HYD	1867
64.	Low loss RF & Microwave Cable Assemblies - 7 types	M/s N.K RF Products & Services Pvt.Ltd., Bengaluru	GD(S)	1877
65.	SAKP 260 Series Wires and Cables	M/s Sanghvi Aerospace, Ahmedabad	A/C	1993

**SECTION 8**  
**Electrical Stores**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Terminal Block-2 way, Box type Pt. No. 5CZ-430	M/s Allied Electronics Corpn, Mumbai	A/C	17
2.	Cable Eye (Ross Courtney Type) Pt. No.5K-2595	M/s Mayfair Electricals, Kolkatta	A/C	18
3.	Flame Trap, Pt. No.C-88-250-C (IND)	M/s. Metal Cloth, Bengaluru	A/C	19
4.	Bonding Strips to HAL Drg No. M 10306	M/s Metal Cloth, Bengaluru	H/C	36
5.	Twenty Position Rotary Drum Selector Switch Pt. No.M26012 & M26012-1	M/s HAL, (Aircraft), Bengaluru	A/C	37
6.	Gun Actuating Power Pack	M/s Mahindra & Mahindra, Mumbai	A/C	87
7.	Cartridge fuses Links "S" Type	M/s Malnad Lab., Mumbai	A/C	135
8.	Terminal Lugs Pt. No.(i) 5X 6518 (ii) 5X-6523	M/s Dowel's Electro Werke, Mumbai	A/C	136
9.	Bonding Braides (P1 & P8 Series)	M/s Metal Cloth, Bengaluru	H/C	167
10.	High Energy Ignition unit Type-HE-175	M/s Southern Electronics, Bengaluru	A/C	169
11.	Anti Collision light Pt. No.3160-S73-31-901 (IND)	M/s Arun Hosiery Mills, New Delhi	A/C	172
12.	Static Discharger Pt. No.AC-SD-001	M/s Metal Cloth, Bengaluru	H/C	190
13.	Generator Control & Protection Unit Pt.No.22-01.00.000	M/s HAL, Lucknow	LKO	192
14.	Static Invertor Type CDIL-100-SSI	M/s Continental Device, Delhi	A/C	193
15.	Contact Bridge Pt. No.324-93402	M/s HAL, A/C, Bengaluru	A/C	197
16.	Time Delay Relay Pt. No.IDT-80	M/s Ava Bhasi Labs, Bengaluru	A/C	204
17.	Auto Transformer Type A-30	M/s Sparkonix (India), Pune	A/C	222
18.	Fuzing Unit Type AHM/02	M/s Arun Hosiery Mills, New Delhi	A/C	270
19.	Quick Release terminal, Cu tongue terminals, Insulated inline connector..	M/s Dowells Electro Werke, Mumbai	A/C	272

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
20.	Low level switch Type LLS-04-1 Pt. No.23-09-00.000	M/s HAL, Lucknow	LKO	279
21.	Auto Selector Unit 4 ways Pt. No. IAS-61077	M/s Integral Electronic, Bengaluru	A/C	280
22.	External Power Plug Pt. No. AD-241-05	M/s Ava Bashi Lab. Bengaluru	A/C	281
23.	Carbon Piles for Voltage regulator (RT/RN-180-SHR-14A)II Series for AN-12 A/c	M/s NPL, New Delhi	KNP	283
24.	EHT & Saturation Transformer (Drg.12307 & 12318)	M/s Southern Electronics, Bengaluru	A/C	289
25.	GCPU Type REG-02 Pt.No 22-0400000	M/s HAL, Lucknow	LKO	306
26.	Static Discharger.Pt. No.AC-SD-002 Issue-D	M/s Metal Cloth, Bengaluru	A/C	310
27.	Solenoid 28V DC Type ASD-23 & Solenoid 12V DC – ASD I5	M/s Sparkonix (India), Pune	A/C	317
28.	Connector Type 2PM42	M/s Allied Electronics, Mumbai	NSK	329
29.	Pressure Relay Pt. No.103800000	M/s HAL, Lucknow	LKO	337
30.	Pressure Relay Pt. No.103700000	M/s HAL, Lucknow	LKO	338
31.	Single Phase Static Invertor Type INV-3 Mk-III Pt. No. 22-03.00.000	M/s HAL, Lucknow	LKO	339
32.	Static Invertor Type INV-2 Mk-III Pt. No. 22-06.00.000	M/s HAL, Lucknow	LKO	340
33.	Plug Connector WP-55 Type-30 Pin (Drg.No.RP-288)	M/s Hitech (India), Hyderabad	A/C	343
34.	Knob Assy. Type M-02363/2(RED), M-02363/3 (AMBER)	M/s R.V. Industries, Bengaluru	A/C	364
35.	Solid State Controller Type 302	M/s Vanamali Engg.Entp., Bengaluru	A/C	430
36.	Cockpit lighting control unit Pt.No.324-6310	M/s HAL (A/c), Bengaluru	A/C	437
37.	Starter Control Panel Type ICP-5310	M/s Integral Systems, Bengaluru	A/C	457
38.	Yaw Damper Control unit Type N140601	M/s HAL, Hyderabad	HYD	458
39.	Carbon Brushes Grade MGS-7	M/s NPL, New Delhi	NSK	461
40.	Fuse Blocks Pt No.121B-75121 (15 Ways),	M/s HAL (BC), Bengaluru	A/C	468

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
	158A-70114 (15 Ways)			
41.	Cu Ring Tongue Insulator Terminal Lugs 7 Types	M/s Dowell's Electro Werke, Mumbai	A/C	487
42.	Altimetric Switch Pt.No.164800000	M/s HAL, Lucknow	LKO	498
43.	Static Inverter Type 1NV-5A Pt.No.22-3200000	M/s HAL, Lucknow	LKO	522
44.	Static Inverter Type INV-6A Pt.No.22-0700000	M/s HAL, Lucknow	LKO	524
45.	Static Inverter Type INV-10 Pt.No.22-1700000	M/s HAL, Lucknow	LKO	525
46.	Static Inverter Type 1NV-5 Pt.No.22-1800000	M/s HAL, Lucknow	LKO	526
47.	Metal Braids in Sizes 2X4, 3X6, 6X10, 10X16, 16X24, 24X30, 40X55	M/s Metal Cloth, Bengaluru	NSK	540
48.	Spike Suppressor unit Type N140463	M/s HAL, Hyderabad	HYD	548
49.	Ring Type Terminal – 14 Categories	M/s Klippon Systems, Kolkata	A/C	553
50.	Super Polyimide Braided Sleeves Pt.No.AC-SP-01	M/s Metal Cloth, Bengaluru	A/C	575
51.	Volt Meter Pt.No.169600000	M/s HAL, Lucknow	LKO	577
52.	Graphite Bush Pt.No.9521852-00 & Graphite Ring Pt.No.9521853-00	M/s Assam Carbon, (AP)	KPT	582
53.	Electric Horn Drg. No. Z007 REV-1	M/s MEC Engineers, Bengaluru	A/C	685
54.	Data Bus Coupler Type CP 3001, CP 3002	M/s Compupower, Hyderabad	HYD	725
55.	Crash trip Pt. No. CT: EW: 12C	M/s East West Sys., New Delhi	A/C	734
56.	Auto Transformer Type -AU-731	M/s VB Electronics, Bengaluru	H/C	744
57.	Suppressor SU 01	M/s VB Electronics, Bengaluru	A/C	804
58.	Connectorised Data Bus Couplers	M/s Compupower, Hyderabad	HYD	811
59.	Inter Connection Unit (ICU) Pt. No.93k.00.00.000	M/s HAL Korwa Division, Korwa	KOW	846
60.	Transformer TR-571	M/s VB Electronics, Bengaluru	A/C	860
61.	Transformer Type TR-271A	M/s VB Electronics, Bengaluru	A/C	873

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
62.	Capsule Block Assembly Pt.No. 1681.00.000	M/s HAL Lucknow Division, Lucknow	LKO	878
63.	Auto Transformer TR-371	M/s VB Electronics, Bengaluru	H/C	919
64.	Power Supply Unit Pt. No.N142648	M/s HAL, Hyderabad	HYD	996
65.	Carbon Brushes MGS 7	M/s Neotech Carbon, Bonmore, MP	NSK	1035
66.	Connectorised Data Bus Coupler	M/s Compupower, Hyderabad	HYD	1051
67.	Carbon Brushes MGS 8	M/s Neotech Carbon, Bonmore, MP	NSK	1061
68.	D.C. Electrical Distribution system	M/s HAL, Lucknow	LKO	1065
69.	Alternator Control & Protection Unit Pt. No.2214 00000	M/s HAL, Lucknow	LKO	1066
70.	Alternator Control & Protection Unit Pt. No.2254 00000	M/s HAL, Lucknow	LKO	1067
71.	Two Pin Connector (Plocket) Pt. No.M20181	M/s MEC Engineers, Bengaluru	A/C	1078
72.	Fire Warning Control Unit Pt. No.3459	M/s Southern Electronics, Bengaluru	A/C	1099
73.	Auxillary Power Supply Pt.No. VDS-1001-055-82	M/s Versabyte Data, Bengaluru	HYD	1140
74.	Multi output Power Supply Pt.No.VDS 1001-056-81	M/s Versabyte Data, Bengaluru	HYD	1141
75.	Surge Suppressor Box Pt.No.1720-012-159-64	M/s BEL, Hyderabad	HYD	1143
76.	Adaptor cable Assembly Type CH-IC-11	M/s Southern Electronics, Bengaluru	H/C	1149
77.	Phase Sequence Detector Pt. No. 2284 00 000	M/s HAL, Lucknow	LKO	1152
78.	P M Fuses- 7 Types	M/s Jai Bharat Industries, New Delhi	NSK	1158
79.	Push Button N377-72-30-197	M/s Integral Systems, Bengaluru	NSK	1160
80.	TWT Power Supply A05605 for MiG-27 aircraft Pt.No.1100 014 20026	M/s BEL, Bengaluru	HYD	1204
81.	AC Electrical Distribution System 5KVA Pt.No.220005000 for ALH	M/s HAL, Lucknow	LKO	1213
82.	AC Electrical Distribution System 10KVA Pt.No.220002000	M/s HAL,, Lucknow	LKO	1224
83.	Filter Transformer Unit Pt. No.228000000	M/s HAL, Lucknow	LKO	1235
84.	Printed Circuit Board (for fire actuating unit) Pt.No.Kalsi-B1-2A	M/s Kalsi Micromasurement, Kanpur	KAN	1250

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
85.	Low Level Float Switch- 2 Types	M/s. Micron Engineers, Bengaluru	A/C	1273
86.	Integrated Generator Control & protection Unit Pt.No.224800000	M/s. HAL Lucknow	LKO	1279
87.	High Pass Filter- 117 MHz	M/s. HAL Hyderabad	HYD	1289
88.	Battery Terminal Box (A.H Meter) , Pt. No. 1098 00 000	M/s. HAL Lucknow	LKO	1312
89.	Taxi/Landing Lighting Box Pt. No. 2267 00 000	M/s. HAL Lucknow	LKO	1314
90.	Air Speed Switch. Pt. No. 165200000	M/s. HAL Lucknow	LKO	1334
91.	D.C Master Box Pt. No. 22-88.00.000	M/s. HAL Lucknow	LKO	1373
92.	Mast moment Signal Condition Pt. No.MMSC-02	M/s Datasol, Bengaluru	H/C	1383
93.	Condenser Pt. No. 41013907-A	M/s Bharat Heavy Plates, Vishakapatnam	LKO	1405
94.	Static Inverter Pt. No.2230 00 000	M/s HAL, Accessories Division, Lucknow	LKO	1451
95.	Power Supply Unit Type TiPS-210	M/s V.B. Electronics, Bengaluru	A/C	1452
96.	Antenna switching Unit Pt. No. N-142638	M/s HAL, Hyderabad	HYD	1472
97.	Power Supply Card Pt. No. 2095-302-001 (CDAC)	M/s CDAC, Thiruvananthapuram	A/C	1491
98.	Altitude Switch Pt. No.174900000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by:M/s HAL, Accessories Division, Lucknow	LKO	1501
99.	Absolute Pressure Switch Pt. No.175500000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by:M/s HAL, Accessories Division, Lucknow	LKO	1503
100.	Pressure Switch (Air) Pt. No. 175200000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by:M/s HAL, Accessories Division, Lucknow	LKO	1504
101.	Thermocouple Extension cable Pt. No.SATE 3320YH 006	M/s Sanghvi Aerospace, Ahmdabad	A/C	1522
102.	Level Switch Probe (Type:F2-T) Pt. No.239000000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by:	LKO	1575



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
		M/s HAL, Accessories Division Lucknow		
103.	Pressure Refuelling/ Defuelling Connector Pt.No.A1K-I5-2045-000-002	D&D by: ADA, Bengaluru; Mfd by: M/s CTTC Orissa	A/C	1597
104.	Threeway Connector (Central Drop Tank) Pt.No.A1K-I5-2065-000-001	M/s CTTC, Orissa	A/C	1604
105.	Threeway Connector (Wing Mounted Drop Tank) Pt.No. A1K-I5-2085-000-001	M/s CTTC, Orissa	A/C	1605
106.	Cap for Refuelling/Defuelling Adapter	D&D by: ADA, Bengaluru; Mfd by: M/s CTTC, Orissa	A/C	1609
107.	Cockpit Panel Flood light Pt. No.OSPL-0501	M/s Pendios, Bengaluru	A/C	1634
108.	Cockpit Panel Flood Light Pt. No. OSPL-0502	M/s Pendios, Bengaluru	A/C	1635
109.	Power Converter 1 $\Phi$ / 3 $\Phi$ Pt. No. VDS100118847	M/s Versabyte Data, Bengaluru	GD (S)	1655
110.	Thermocouple Conditioning Unit Pt. No.iQ286201-0100	M/s IQ Infotech Ltd, Bengaluru	A/C	1656
111.	Lighting Control Unit (LCU), Pt. No.: 2294 00 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division Lucknow	LKO	1695
112.	Multi Channel Dimmer unit(MCDU) Pt. No.229300 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division Lucknow	LKO	1698
113.	Day Night Dimmer Unit (DNDU) Pt. No. 223900 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division Lucknow	LKO	1699
114.	Carbon Brush, Pt. No. N377-7230-200 (555-119)	M/s Neotech Consultants, Gwalior	NSK	1703
115.	Multi output power supply module (PSM) 36SHA05-Optical Locator System (OLS), Pt. No.SUM/36 SHA-05	M/s Versabyte Data, Bengaluru	NSK	1726

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
116.	Multi output power supply module (PSM)36SHA06-Optical Locator System (OLS), Pt. No.SUM/36 SHA-06	M/s Versabyte Data, Bengaluru	NSK	1727
117.	DME 2950AN149071 unit	M/s HAL, Hyderabad	HYD	1737
118.	Multi output power supply unit, Pt. No.: VDS 1001 180 54	M/s.Versabyte Data, Bengaluru	HYD	1739
119.	Thermocouple extension cable, Pt. No.: SATE 3320YH004	M/s Sanghvi Aerospace, Ahmedabad	H/C	1740
120.	Boot strap hydraulic reservoir, Pt. No. 1160 00 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Lucknow	LKO	1744
121.	High voltage power supply cum modulator (HVPSM), Pt. No.4576 725 101 197	M/s LNT Electronics, Hyderabad	HYD	1746
122.	Dimmerstat Pt. No.SE-DS-02(Mod-1)	M/s Southern Electronics , Bengaluru	A/C	1773
123.	Cockpit panel flood light(CPFL) Type-2:171000383156	M/s BEL,Haryana	CHD	1774
124.	Dimmerstat Pt. No.1710 003 833 50	M/s BEL,Haryana	CHD	1778
125.	Electro selector Pt. No.324-79267	D&D by: ASERDC, HAL, Lucknow; Mfd by: M/s HAL, Accessories division, Lucknow	LKO	1780
126.	DC master box Pt. No.227600000	M/s HAL Accessories Division,Lucknow	LKO	1788
127.	Connectors -3 series, A-2RM, A-2RMD,A-2RMDT	M/s. Amphenol Interconnect, Bengaluru	NSK	1790
128.	DC distribution box-2, Pt. No. 228300000	M/s HAL Accessories Division, Lucknow	LKO	1791
129.	DC distribution box-1, Pt. No. 228200000	M/s HAL Accessories Division, Lucknow	LKO	1792
130.	117 MHz High Pass Filter, Pt. No. N149261	M/s HAL, SLRDC, Hyderabad	HYD	1812
131.	Rudder Pedal Adjustment Actuator, Pt. No.1902 00 000	D&D by: ASERDC, HAL, Lucknow; Mfd by: M/s HAL, Accessories division, Lucknow	LKO	1813
132.	Rudder Trim Actuator, Pt. No.1901 00 000	D&D by: ASERDC, HAL, Lucknow; Mfd by: M/s HAL Lucknow	LKO	1814



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
133.	Combined Service Connector (ORK Loom) Pt. No. SE/CAB/ORK/19P-7P-7S	M/s Shakti Enterprises, Haryana	NSK	1822
134.	Battery Junction Box-LCA Pt. No. 2299 00 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL Accessories Division, Lucknow	LKO	1879
135.	Connectors, Pt. No. A – SNTs – 23 Series	M/s Amphenol Interconnect India Pvt. Ltd, Bengaluru	NSK	1990
136.	DC Master Box, Pt. No. 261300000	D&D by: M/s HAL, ASERDC, Lucknow Mfd by: M/s HAL, Accessories Division, Lucknow	LKO	1991
137.	Digital Lox Indicator/ Transmitter, Pt. No. 181800000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL Accessories Division, Lucknow	Lko	1998

**SECTION 9**  
**Engine & Its Components, A/C Stores**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Air Starter H.F.E.S/1	M/s HAL, Engine Division. Bengaluru	ENG	1
2.	Artouste IIIB Engine SL.No. H55007	M/s HAL, Engine Division. Bengaluru	ENG	21
3.	Phase II Extension-I Dart MK-531 Engine	M/s HAL, Engine Division. Bengaluru	ENG	31
4.	Flame Tube of Dart MK-531 Engine	M/s HAL, Engine Division. Bengaluru	ENG	98
5.	Orpheus 703 R Engine Reheat System	GTRE, DRDO, Bengaluru	ENG	101
6.	Components of Orpheus Series Engines	M/s HAL, Engine Division, Bengaluru	ENG	155
7.	Components of Artouste III B Engines	M/s HAL, Engine Division, Bengaluru	ENG	156
8.	Compressor Rotor Blades of Orpheus Engines	M/s HAL, Engine Division, Bengaluru	ENG	269
9.	Igniter Cartridge PV-35 for S22 A/C	ARDE, Pilot Plant (AIR), Pune	AA	313
10.	Jet Trainer KIRAN- MK-II Aircraft	M/s HAL, (B.C) Bengaluru	A/C	517
11.	Basic Piston Engine Trainer-HPT-32 Aircraft	M/s HAL, (B.C) Bengaluru	A/C	518
12.	Orpheus 70105 Engine Change Units	M/s HAL, Bengaluru	ENG	519
13.	Free Power Turbine Rotor FPTR Castings	DMRL, DRDO, Hyderabad	MAT	970
14.	Gas Generator Turbine Stator GGTS Castings	DMRL, DRDO, Hyderabad	MAT	971
15.	Free power Turbine Stator FPTR Castings	DMRL, DRDO, Hyderabad	MAT	972
16.	Gas Generator Turbine Rotor GGTR Castings	DMRL, DRDO, Hyderabad	MAT	973
17.	H.P Compressor Rotor Stage I Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1225
18.	H.P Compressor Rotor Stage II Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1226
19.	H.P Compressor Rotor Stage III Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1227
20.	H.P Compressor Rotor Stage IV Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1228
21.	H.P Compressor Rotor Stage V Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1229

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
22.	LPC Rotor Stage-2C Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1238
23.	HPC Stator Stage-2 Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1239
24.	HPC Stator Stage-1 Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1244
25.	HPC Stator Stage-3 Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1245
26.	HPC Stator Stage-4 Blade Forging	M/s HAL, F & F, Bengaluru	F&F	1246
27.	PTAE.7: Small Gas Turbine Turbojet Engine Pt. No. 5600008	M/s HAL Engine Division. Bengaluru	ENG	1379
28.	Gas Turbine Starter Unit (GTSU): Jet Fuel Starter Type GTSU-110	M/s HAL, Engine Division. Bengaluru	ENG	1380
29.	Drop tank 800 liters GFRP Pt. No. 01L-5F-4010-000-00B	Des by: ADA, Bengaluru; Dev by: ASL,CPDC, DRDO, Hyderabad; Mfd by: M/s.LCA-Tejas Division, HAL, Bengaluru	A/C	1800

**SECTION 10**  
**Fuel/Oil Systems**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Fuel Content Gauging System Pt.No. 23.00.00.000	M/s HAL, Lucknow	LKO	199
2.	Fuel Content Gauging System FCG-14 Pt.No. 23.00.03.000	M/s HAL, Lucknow	LKO	542
3.	Fuel Content Gauging System FCG-13 Pt.No. 23.00.04.000	M/s HAL, Lucknow	LKO	544
4.	3 Micron Filter Pt.No.G4610/A for MGB Oil Circuit	M/s Kirloskar Filters, Pune	H/C	758
5.	Fuel Filler Cap Pt. No.1445.00.000	M/s HAL, Lucknow	LKO	781
6.	Fuel Filler Cap Pt. No. M08530	M/s Micron Engineers, Bengaluru	A/C	874
7.	Tank to Tank Connector 2 Types	M/s Vita Technology, Bengaluru	H/C	986
8.	Fuel Drop tank Float Switch High, Low & Middle Level-3 Types	M/s Micron Engineers, Bengaluru	A/C	1012
9.	Fuel Float Switch Mid Level MEFS-3515-000-192-000	M/s Micron Engineers, Bengaluru	A/C	1013
10.	Fuel Float Switch: MEFS-3515-000-191-000 (Low Level), MEFS-000-190-000 (High Level)	M/s Micron Engineers, Bengaluru	A/C	1014
11.	Fuel Content Gauging (Front Main Tank (FMT) Probe)	M/s HAL, Lucknow	LKO	1351
12.	Fuel Content Gauging (Middle Main Tank (MMT) Probe)	M/s HAL, Lucknow	LKO	1352
13.	Fuel Content Gauging Supply Tank (ST) Probe) Pt.No.235900000	M/s HAL, Lucknow	LKO	1353
14.	Fuel Content Gauging Reference Supply Tank (RST) Sensor Pt.No.236000000	M/s HAL, Lucknow	LKO	1354
15.	Fuel Content Gauging (Front Main Tank (FMT) Probe) Pt.No.236200000	M/s HAL, Lucknow	LKO	1355
16.	Fuel Content Gauging (Rear Tank (RMT) Probe) Pt.No.236400000	M/s HAL, Lucknow	LKO	1356
17.	Fuel Content Gauging (supply Tank (ST) Probe) Pt.No.236500000	M/s HAL, Lucknow	LKO	1357

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
18.	Fuel Float Switch (Low & High Level) Pt.No.MEC-F-2191 & MEC-F-2190	M/s MEC Engineers, Bengaluru	A/C	1358
19.	Fuel Content Gauging (Auxillary Tank (AT) Probe) Pt.No. 23 66 00 000-130 Iss.1A	M/s HAL,Lucknow Division, Lucknow	LKO	1366
20.	Fuel Content Gauging (Rear Main Tank (RMT) Probe) Pt.No.23 58 00 000	M/s HAL,Lucknow Division, Lucknow	LKO	1367
21.	Fuel Content Gauging (Middle Main Tank (MMT) Probe) Pt.No. 23 63 00 000	M/s HAL,Lucknow Division, Lucknow	LKO	1368
22.	Temperature Sensor (Fuel)-1721.00.000	M/s HAL,Lucknow Division, Lucknow	LKO	1370
23.	Absolute Pressure Switch (Fuel) 171500000	M/s HAL,Lucknow Division, Lucknow	LKO	1375
24.	Fuel Sensing Probe (Fuselage Tank Probe) No.239800000	M/s HAL,Lucknow Division, Lucknow	LKO	1396
25.	Fuel Sensing Probe (Wing Tank Probe) Pt. No.239900000	M/s HAL,Lucknow Division, Lucknow	LKO	1397
26.	DFM-Fuel Sensors Pt. No. 237100000 (F1-AFT-Bottom Probe)	M/s HAL, Accessories Division, Lucknow	LKO	1408
27.	DFM- Fuel Sensors Pt. No. 237200000 (F1 for Bottom Probe)	M/s HAL, Accessories Division, Lucknow	LKO	1409
28.	DFM- Fuel Sensors Pt. No 237300000 (F1 AFT- Bottom Probe)	M/s HAL, Accessories Division, Lucknow	LKO	1410
29.	DFM – Fuel Sensors Pt. No. 237400000 (F1 AFT Bottom Probe)	M/s HAL, Accessories Division, Lucknow	LKO	1411
30.	DFM- Fuel Sensors Pt. No. 237500000 (F2 Fore- Top Probe)	M/s HAL, Accessories Division, Lucknow	LKO	1412
31.	DFM – Fuel Sensors Pt. No. 237600000 (F2 Fore Bottom Probe)	M/s HAL, Accessories Division, Lucknow	LKO	1413
32.	DFM- Fuel Sensors Pt. No. 237800000 (F2-AFT Bottom Probe)	M/s HAL, Accessories Division, Lucknow	LKO	1414
33.	DFM- Fuel Sensors Pt. No. 239500000 (F2 AFT Top Probe)	M/s HAL, Accessories Division, Lucknow	LKO	1415
34.	Fuel Low Level Sensed Switch Pt. No.238400000	M/s HAL, Accessories Division, Lucknow	LKO	1429
35.	Fuel High Level Sensed Switch Pt. No. 238500000	M/s HAL, Accessories Division, Lucknow	LKO	1430

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
36.	Pre-cooler Pt. No. 41015301	M/s Bharat Heavy Plate & Vessels Vishakapatnam	LKO	1449
37.	Low Level Float Switch Pt. No.MEFS-3504-100-153-000	M/s Micron Engineers, Bengaluru	A/C	1479
38.	Pressure Switch (Fuel) Pt. No. 175400000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by:M/s HAL, Accessories Division, Lucknow	LKO	1500
39.	Fuel Content Gauge (FCG) F1-A/B Probe Pt. No.187300000	M/s HAL, Accessories Division, Lucknow	LKO	1515
40.	Fuel Content Gauge (FCG) F1-F/T Probe Pt. No.187400000	M/s HAL, Accessories Division, Lucknow	LKO	1518
41.	Fuel Content Gauge (FCG) F1-F/B Probe Pt. No.187200000	M/s HAL, Accessories Division, Lucknow	LKO	1519
42.	Fuel Content Gauge (FCG) F2-F/B Probe Pt. No.187600000	M/s HAL, Accessories Division, Lucknow	LKO	1520
43.	Fuel Content Gauge (FCG) F2-F/T Probe Pt. No.187500000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1525
44.	Fuel Content Gauge (FCG) WT- F/T Probe Pt. No.187900000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1528
45.	Fuel Content Gauge (FCG) F2-A/T Probe Pt.No. 189500000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1529
46.	Fuel Content Gauge (FCG)F2-A/B Probe Pt. No. 187800000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1530
47.	Fuel Content Gauge (FCG) WT-A/I Probe Pt. No. 188100000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1531
48.	Fuel Content Gauge (FCG) F1-F/T Probe Pt. No. 235100000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1532
49.	Fuel Content Gauge (FCG) F1-B Probe Pt. No. 187100000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1533

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
50.	Fuel Content Gauge (FCG) F2-A/T Probe Pt. No. 234900000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1534
51.	Fuel Content Gauge (FCG) F2-F/T Probe Pt. No. 23500000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1535
52.	DFM- Fuel Sensors, W-F/1 Probe Pt. No 238900000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1538
53.	Fuel Content Gauge (FCG) WT-O/T Probe Pt. No. 188000000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1539
54.	Ground Refueling Panel, Pt. No. 2397 00 000	D&D by: ASERDC, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow-226016	LKO	1677
55.	DFM-Fuel Sensors W-F/1 Probe (Wing Tank Fore- immersed probe), Pt. No.239200000	M/s HAL, Accessories division, Lucknow	LKO	1809
56.	Self Sealing Breakway Coupling Pt. No.605-BEMCO-SSB-001 & 606-BEMCO-SSB-002	M/s Bemco Hydraulics, Belgaum	H/C	1818
57.	3 Micron Lube Oil Filter Element Pt. No.MGB-FIL-0003	M/s Mikroflo Filters, Telangana	H/C	1858
58.	Top Mounted Fuel Content Gauging Probe (Fuselage Tank FCG Probe) Pt. No. 232000000	M/s HAL, Accessories Division, Lucknow	LKO	1863
59.	MGB Oil Cooler, Pt. No. PKY1185598 and Engine Oil Cooler	M/s Polynex, Bengaluru	H/C	1911
60.	Fuel Content Gauging Probe (F2-F/T) Pt. No.182100000	M/s ASERDC, HAL, Lucknow	LKO	1969
61.	Lubricating oil pump Pt. No.AE/MGB/LOP/01-00	M/s Aerospace Engineers, Salem	H/C	1977
62.	Lubricating oil pump (AGB) Pt. No POL-370-2380/H	M/s Polynex, Bengaluru	H/C	1986



**SECTION 11**  
**Hydraulic Systems**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Hydraulic pump - HHP/I-4000	M/s HAL (BC), Bengaluru	A/C	121
2.	Purge Door Damper Pt. No. 100100000	M/s HAL, Lucknow	LKO	184
3.	Nose U/C Jack 100300000	M/s HAL, Lucknow	LKO	196
4.	Undercarriage Selector Valve Pt.No.100200000	M/s HAL, Lucknow	LKO	203
5.	Main Undercarriage jack Pt.No.100500000	M/s HAL, Lucknow	LKO	221
6.	Brake Foot Pump Pt.No.100600000 & 100700000	M/s HAL, Lucknow	LKO	230
7.	Shock Absorber AD-7 & AD-8	M/s Ureka Electric, Kolkatta	HYD	271
8.	Absolute Pressure Warning Pt.No.166100000	M/s HAL, Lucknow	LKO	291
9.	Pneumatic pressure switch Pt.No.164100000	M/s HAL, Lucknow	LKO	292
10.	Tray Accumulator Assembly for Canberra A/c Drg No. 25 ED/TECH/01/77-78	No.25ED Airforce, Deolali	NSK	294
11.	Electro Hydraulic Servo Jack Pt.No.104600000	M/s HAL, Lucknow	LKO	456
12.	Filter & Valve Unit Pt.No.100900000	M/s HAL, Lucknow	LKO	564
13.	Shock Absorber Pt. No. BN-310597	M/s HAL, Lucknow	LKO	565
14.	Pressure Reducer Pt.No.130800000	M/s HAL, Lucknow	LKO	590
15.	Hydraulic Reservoir M-08550	M/s HAL (A/c), Bengaluru	A/C	746
16.	Accumulator. Pt. No. 109800 000	M/s HAL, Lucknow	LKO	1313
17.	Nose Undercarriage Door Jack. Pt. No. 105900 000	M/s HAL, Lucknow	LKO	1316
18.	Main Undercarriage Door Jack, LH/RH, Pt. No. 105100 000/105200 000	M/s HAL, Lucknow	LKO	1318
19.	Main Undercarriage Jack. LH/RH, Pt. No. 105700 000/105800 000	M/s HAL, Lucknow	LKO	1319



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
20.	Bootstrap Hydraulic Reservoir. LH/RH, Pt. No. 109600 000/109700 000	M/s HAL, Lucknow	LKO	1320
21.	Electro Selector Valve. Pt. No. 106900 000	M/s HAL, Lucknow	LKO	1321
22.	Electro Selector Valve. Pt. No. 107000 000	M/s HAL, Lucknow	LKO	1322
23.	Electro Selector Valve. Pt. No. 107800 000	M/s HAL, Lucknow	LKO	1323
24.	Solenoid Cock Pt. No. 1072 00 000	M/s HAL, Lucknow	LKO	1377
25.	Electro Selector Pt. No.324-79239	M/s HAL, Lucknow	LKO	1390
26.	Electro Selector Pt. No. 107100000	M/s HAL, Lucknow	LKO	1391
27.	Brake Master Cylinder Pt. No.108400000 (LH) Pt No108800000 (RH)	M/s HAL, Accessories Division, Lucknow	LKO	1424
28.	Demist Valve Pt. No. 124600000	M/s HAL, Accessories Division, Lucknow	LKO	1436
29.	Accumulator, Pt. No.: 1045 00 000	M/s HAL, Lucknow	LKO	1735
30.	Water Injector, Pt. No.41015701	M/s Bharat Heavy Plate & Vessels Ltd., Vishakapatnam	LKO	1776
31.	Hydraulic Power Pack Pt. No.1153 00 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow	LKO	1887
32.	Electronic Motor Driven Hydraulic Pump (EMDP) -11. 5 lpm Pt. No. 113800000	M/s HAL, Accessories Division, Lucknow	LKO	1942

**SECTION 12**  
**Instruments**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Rear View Mirror To HAL Dwg No.324-63026 'A'	IISc, Bengaluru	A/C	63
2.	Water Detecting Device "Jalsuchak"-MK.-II	DRL(M), Kanpur	KNP	102
3.	Anti Vibration Mounting 2 lbs Spring Type	M/s Bharat Instruments, Bengaluru	A/C	126
4.	Rear View Mirror Pt. No.A214670	M/s Spectra Systems, Bengaluru	A/C	127
5.	Static Invertor 3, 115V, 400 Hz, 150VA, Pt. No. 22.02.00.000	M/s HAL, Lucknow	LKO	218
6.	Machmeter Pt. No.16.16.00.000	M/s HAL, Lucknow	LKO	261
7.	Fuel Indicating Meter Type FCG-04-3 for Fuel content gauging system for Kiran Alc	M/s HAL, Lucknow	LKO	296
8.	Fuel Gauging System FCG-04 Pt. No. 23.00.01.000	M/s HAL, Lucknow	LKO	297
9.	Generator over Load & Differential Sensing Unit Pt. No.22-11-00.000	M/s HAL, Lucknow	LKO	314
10.	Indigenous Control Box for IPN Starter System of Hunter Alc	1 BRD, Kanpur	KNP	316
11.	Change over Cock Pt. No.131500000	M/s HAL, Lucknow	LKO	324
12.	Air Pressure Gauge Pt.No. 162100000	M/s HAL, Lucknow	LKO	330
13.	Pressure Warning Switch Pt.No. 164500000,164600000 & 164700000	M/s HAL, Lucknow	LKO	352
14.	Pressure Gauge Pt.No. 162200000	M/s HAL, Lucknow	LKO	353
15.	Solid State Distributor Unit Type ISD-80122	M/s Integral Systems, Bengaluru	A/C	355
16.	Rear View Mirror For Kiran MK.-II Alc Pt.No.324-63 119 Issue 4	M/s Spectra Systems, Bengaluru	A/C	361
17.	Metric Altimeter Pt.No. 160300000	M/s HAL, Lucknow	LKO	362
18.	Pneumatically Controlled Pr. Regulator Pt.No. 130300000	M/s HAL, Lucknow	LKO	381
19.	Pneumatically Controlled Pr. Regulator Pt.No. 130400000	M/s HAL, Lucknow	LKO	382

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
20.	Pressure Regulator Pt.No. 130500000	M/s HAL, Lucknow	LKO	386
21.	Differential Control Unit Pt.No. 132300000	M/s HAL, Lucknow	LKO	406
22.	Cabin Altitude & Pressure Indicator Pt.No. 166600000	M/s HAL, Lucknow	LKO	408
23.	Radio Magnetic Indicator Type: RMI-04 Pt.No. 063000000	M/s HAL, Lucknow	LKO	422
24.	Rate Gyro Unit RGU-01 Pt. No. 250100000	M/s HAL, Lucknow	LKO	425
25.	Emergency Fuel Warning Unit Type LLS-07 Pt.No. 23.22.00.000	M/s HAL, Lucknow	LKO	469
26.	Starter Control Panel Type ICP-5310 MK-II	M/s Integral Systems, Bengaluru	A/C	488
27.	Overloading Warning Unit Pt.No. 165700 000	M/s HAL, Lucknow	LKO	516
28.	Jet Pipe Temperature Indicator Pt.No. 163700000	M/s HAL, Lucknow	LKO	521
29.	Engine Oil Pressure & Temperature Indicator Pt.No.163800000	M/s HAL, Lucknow	LKO	527
30.	Interface Unit Pt.No. 167300000	M/s HAL, Lucknow	LKO	541
31.	Outside Air Temperature Gauge Pt.No.162600000	M/s HAL, Lucknow	LKO	543
32.	Indigenous Fatigue Meter (NAL-G-Meter)	M/s NAL, Bengaluru	A/C	554
33.	Bezel Glass for use on Artificial Horizon Pt. No. 206A/19351-0	M/s Spectra Systems, Bengaluru	A/C	572
34.	Pressure Indicator Pt. No. 171300000	M/s HAL, Lucknow	LKO	603
35.	Digital Clock Cum Timer Type SE-I010	M/s Southern Electronics, Bengaluru	H/C	763
36.	Capsule Assembly Pt. No. AS.1747/LD	M/s HAL, Lucknow	LKO	805
37.	Temperature Switch Pt. No.1723.00.000	M/s HAL, Lucknow	LKO	831
38.	Temperature Sensor Pt. No.1722.00.000	M/s HAL, Lucknow	LKO	832
39.	Temperature Switch Pt. No.1721.00.000	M/s HAL, Lucknow	LKO	834
40.	Pressure Switch Pt. No.1650.00.000	M/s HAL, Lucknow	LKO	835
41.	Pressure Switch Pt. No.1651.00.000	M/s HAL, Lucknow	LKO	836
42.	Radio Magnetic Indicator Pt. No.060 800 000	M/s HAL, Lucknow	LKO	855

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
43.	Vertical Gyro	M/s HAL, Lucknow	LKO	865
44.	Outside Air Temp.Gauge Pt. No.1627 00 000	M/s HAL, Lucknow	LKO	872
45.	Ram Indicator Unit Pt. No.N. 146301	M/s HAL, Hyderabad	HYD	979
46.	Manometric Module Pt. No. 1698 00 000	M/s HAL, Lucknow	LKO	1130
47.	Damper EN-001-01-2002-for MiG series aircraft	M/s Laxtronics Instruments, Nasik	NSK	1205
48.	Rearview Prism Pt. No. N 377-06-03	M/s HSEDC Ltd, Ambala Cantt.	NSK	1261
49.	Control & Conversion Unit	M/s. Prudent Com., Bengaluru	KNP	1280
50.	DC. Master Box. Pt. No. 224600000	M/s HAL, Lucknow	LKO	1282
51.	AC. Master Box. Pt. No. 228900000	M/s HAL, Lucknow	LKO	1283
52.	Standby Magnetic Compass. Pt. No. JC 2B (G) Mark-1	M/s Indian Navigation, Gurgaon	H/C	1290
53.	Tail Rotor Vibration Warning System	M/s Merlinhawk Aerospace, Bengaluru	H/C	1350
54.	Lox Indicator/Transmitter Pt. No.238600000	M/s HAL,Accessories Division, Lucknow	LKO	1387
55.	Display Processor & Key Board Micro Module Unit Pt.No.1720 0180	M/s Comptek, Hyderabad	HYD	1389
56.	Missile Control Panel Pt. No.ICP-384 TS05Y	M/s Integral Systems, Bengaluru	A/C	1442
57.	Fatigue Meter Pt. No. IGM 950 (MOD-1)	D&D by: NAL, Bengaluru; Mfd by: M/s Integral Systems & Components Ltd, Bengaluru	A/C	1499
58.	Pressure Gauge Pt. No.164300000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by:M/s HAL, Accessories Division, Lucknow	LKO	1505
59.	Flight Control Panel (FCP) Pt. No.1100 019 459 60	D&D by: ADE, Bengaluru; Mfd by: M/s BEL, Bengaluru	A/C	1507
60.	Smart Standby Display Unit (SSDU) Pt. No. A1K-I1-1210-000-00A	D&D by: ADA, Bengaluru; Mfd by: M/s Data Patterns, Chennai	A/C	1524

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
61.	Temperature Sensor Pt. No.172200000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by:M/s HAL Accessories Division Lucknow	LKO	1546
62.	'G' Meter, Pt. No.1660 00 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Lucknow	LKO	1675
63.	Accelerometer, Pt. No.1665 00 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Lucknow	LKO	1676
64.	Automatic Temperature Controller, Pt. No.: 180 30 0000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Lucknow	LKO	1688
65.	Controller & Display Unit CDU-1100, Pt. No. N149036	D&D by: SLRDC, M/s HAL, Hyderabad; Mfd by: M/s. HAL, Avionics division, Hyderabad	HYD	1716
66.	Fuel sensor probe (Type: F1B-T), Pt. No.2391 00 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Lucknow	LKO	1743
67.	CMFD 55, Pt. No. MF 1000 000 000	M/s. Samtel -HAL Display Systems Ltd., Ghaziabad.	KOW	1769
68.	CMFD 66, Pt. No.MF 2000 000 000	M/s Samtel -HAL Display Systems Ltd., Ghaziabad	KOW	1770
69.	Integrated Stand by Instrument Systems(ISIS), Pt. No.DSS-09-01	M/s. Datasol, Bengaluru	H/C	1820
70.	Weapon control panel WCP-1020A	M/s HAL, SLRDC, Hyderabad	HYD	1825
71.	Outside Air Temperature (OAT) Probe N165630	M/s. HAL, SLRDC, Hyderabad	HYD	1924
72.	Fuel Sensing Probe (wing tank out board ) Pt. No. 240900000	M/s HAL, ASERDC,Lucknow	LKO	1961
73.	Fuel Content Gauging Probe (F2-A/B) Pt. No.1822 00 000	M/s HAL , ASERDC, Lucknow	LKO	1963
74.	Fuel Content Gauging Probe (F1- F/T) Pt. No. 185100 000	M/s HAL, ASERDC, Lucknow	LKO	1965
75.	Bay Temperature Resistance Temperature Detector Pt.	M/s Heatcon Sensors, Bengaluru	GD(S)	1970

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
	No.BTRTD 150C			
76.	Immersion Type Low Temperature Resistance Detector	M/s Heaton Sensors, Bengaluru	GD(S)	1971
77.	Special Purpose Resistance Temperature Detector	M/s Heaton Sensors, Bengaluru	GD(S)	1972

**SECTION 13**  
**Lamp & Accessories**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Lamp Filament 24V/10W, Pt.No. 5L/9952276/IND	M/s Pradip Lamp Works, Patna	A/C	26
2.	Lamp Filament 28V/3.5W Pt.No.X951273	M/s Pradip Lamp Works, Patna	A/C	27
3.	Lamp Filament 28V/3.5W Pt.No.X995-1284	M/s Pradip Lamp Works, Patna	A/C	28
4.	Lamp Filament 24V/20W Pt.No. 995-4214	M/s Pradip Lamp Works, Patna	A/C	29
5.	Lamp Filament 2.5V/0.5W Pt.No. 995-1122	M/s Pradip Lamp Works, Patna	A/C	30
6.	Panel Lamp Holder (Drg. IE-103040)	M/s Integral Electronics, Bengaluru	H/C	201
7.	Warning Lamp Holder Pt.No.IE-39100-6 (Red),7(Green),8 (Amber)	M/s Integral Electronics, Bengaluru	H/C	249
8.	Midget Lamp Holder Type IE 39230	M/s Integral Systems, Bengaluru	H/C	266
9.	Pillar Lamp Assembly Drg No. 324-75104	M/s HAL (A/C), Bengaluru	A/C	387
10.	Lamp Fittings Type I-SLTSN Red & Green and I-SLTS-51 Red & Green	M/s Integral Systems, Bengaluru	LKO	407
11.	Cockpit Lamp Holder Assemblies Type: B, C, D, E, G & F	M/s HAL, Bengaluru	A/C	433
12.	Light Emergency Pt. No. 205-CA/80090A	M/s Kohinoor Slide Rules, Kanpur	KNP	963
13.	Navigation Lamp Holder Pt. No. I-31-2629-1	M/s Integral Systems, Bengaluru	A/C	1398
14.	Lighting Box Pt. No.228600000	M/s HAL, Accessoreis Division, Lucknow	LKO	1476
15.	Formation Light Pt. No.OSPL-0401	M/s Pendios, Bengaluru	A/C	1636
16.	Wing Navigation Light Pt. No. JSLI-002-000	M/s J S Lamp, Faridabad	A/C	1637
17.	Fin Navigation Light Pt. No. JSLI-003-000	M/s J S Lamp, Faridabad	A/C	1643
18.	Anti Collission Light (ACL) Pt. No. 115000306102	M/s BEL, Bengaluru	A/C	1658
19.	Lamps 6.3-1.4,SM 28 and SM 39	M/s J S Lamp, Faridabad	NSK	1680



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
20.	Lamps -2 Types: SM-30 (28V-4.8W) & SM-31 (28V-2.8W)	M/s J S Lamp, Faridabad	NSK	1685
21.	Lamp SM-22 (28V-28W)/ SM28-28.1	M/s J S Lamp, Faridabad	NSK	1686
22.	Lamp SM 15.I (26V-10W)	M/s J S Lamp, Faridabad	NSK	1694
23.	Lamp SM-37 (28V-1.4W)	M/s J S Lamp, Faridabad	NSK	1696
24.	Lamp-SMK-37 Red (3M-28-1.4W)	M/s J S Lamp, Faridabad	NSK	1697
25.	Taxi/Landing lighting box, Pt. No.2264 00 000	M/S HAL, Accessories division, Lucknow	LKO	1719
26.	Inverter cum dimmer (ICD) Pt. No.1710 003 835 44	M/s BEL, Haryana	CHD	1772
27.	Formation light Pt. No 1710 003 837 38	M/s BEL,Haryana	CHD	1779

**SECTION 14**  
**Lubricants, Fuel & Greases**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Mosil PM-100 (Modified) (Dry Lubricant)	M/s Mosil Lubricants. Mumbai	NSK	147
2.	Mosil TV-54 Compound	M/s Mosil Lubricants. Mumbai	A/C	182
3.	Anti Seize Compound Mosil GG-50	M/s Mosil Lubricants. Mumbai	ENG	254
4.	Servo-Grease NK-50	M/s IOCL, Mumbai	NSK	303
5.	RT Fuel	M/s IOCL, Mumbai	ENG	599
6.	Oil MK-8P (IB)	M/s IOCL, Mumbai	NSK	729
7.	Grease Ciatum-221	M/s MOC, Kanpur	KPT	858
8.	Aviation Turbine Fuel Kerosene Type (K-50)	M/s IOC, Panipat Refinery, Haryana	F&F	876
9.	Aviation Turbine Fuel Kerosene Type (K-50) BIS 1571:1992	M/s Reliance Petroleum Ltd, Jamnagar	F&F	880
10.	Grease Petrol Resistant	M/s MOC, Kanpur	KPT	912
11.	Aviation Turbine Fuel (K-50)	M/s B.P.C.L, Mumbai Refinery	F&F	923
12.	Aviation Turbine Fuel Type (K-50)	M/s Numaligarh Refinery Ltd, Assam	F&F	994
13.	Turbonycoil 13B	M/s AVI-OIL, N.Delhi	F&F	1009
14.	Turbonycoil 210A	M/s AVI-OIL, N.Delhi	F&F	1010
15.	Turbonycoil 3560 GD 100	M/s AVI-OIL, N.Delhi	F&F	1011
16.	Turbonycoil 280 P	M/s AVI-OIL, N.Delhi	F&F	1020
17.	Aviation Turbine Fuel (K-50)	M/s IOC, Mumbai	F&F	1043
18.	Aviation Turbine Fuel (K-50)	M/s HPCL, Mumbai	F&F	1058
19.	Aviation Turbine Fuel (K-50)	M/s Kochi Refineries, Kerala	F&F	1100
20.	Nycolube-03	M/s AVI-OIL, Haryana	F&F	1101

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
21.	Turbonycoil 308	M/s AVI-OIL, N.Delhi	F&F	1102
22.	M-Swastol: Fuel System Icing Inhibitor-AL-41	M/s Swastik Oil, Gujarat	F&F	1103
23.	Turbonycoil-321	M/s AVI-OIL, N.Delhi	F&F	1133
24.	Turbonycoil-312	M/s AVI-OIL, N.Delhi	F&F	1134
25.	Turbonycoil-306	M/s AVI-OIL, N.Delhi	F&F	1137
26.	Aviation Turbine Fuel (K-50)	M/s MRPL, Mangalore	F&F	1142
27.	Nycoprotec-05	M/s AVI-OIL, N.Delhi	F&F	1183
28.	Nycoprotec-04	M/s AVI-OIL, N.Delhi	F&F	1184
29.	Nycoprotec-17	M/s AVI-OIL, N.Delhi	F&F	1186
30.	Turbonycoil 525-2A	M/s AVI-OIL, N.Delhi	F&F	1195
31.	Turbonycoil-600	M/s AVI-OIL, N.Delhi	F&F	1196
32.	Turbonycoil-35M	M/s AVI-OIL, N.Delhi	F&F	1197
33.	Hydraunycoil FH-51	M/s AVI-OIL, N.Delhi	F&F	1198
34.	Thinner RDV to GOST 43399-48	M/s HAL, Nasik	NSK	1211
35.	M-Swassolve Fuel System Icing Inhibitor AL-31	M/s Swastik Oil, Gujarat	F&F	1222
36.	Aviation Turbine Fuel Kerosene Type K-50	M/s IOCL, Mumbai	F&F	1237
37.	Grease (Servogem- XG 285)	M/s. Indian Oil Blending Ltd, Mumbai	H/C	1252
38.	Aviation Turbine Fuel Kerosene Type K-50	M/s IOCL (Haldia Refinery), Mumbai	F&F	1253
39.	Grease (Servogem-XG 284)	M/s. Indian Oil Blending Ltd, Mumbai	H/C	1259
40.	Aviation Turbine Fuel (K-50)	M/s. ONGC, Surat	F&F	1271
41.	Servo OEP-70 (Oil OEP-70)	M/s. Indian Oil Blending Ltd, Mumbai	H/C	1278
42.	Aviation Turbine Fuel (K-50)	M/s. H.P.C.L., Mumbai	F&F	1295
43.	Grease Servo-CIATIM-201	M/s. IOCL, Mumbai	F&F	1297

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
44.	Servo Grease- CIATIM-202	M/s. IOCL, Mumbai	F&F	1298
45.	Aviation Turbine Fuel (K-50)	M/s. IOCL, Gujarat	F&F	1324
46.	Aviation Turbine Fuel (Jet-A1)	M/s. CPCL, Manali, Chennai	F&F	1328
47.	AVI LUBE VNP-6	M/s AVI-OIL India(P) Ltd, N.Delhi	F&F	1335
48.	Servo Grease CIATIM-203 To GOST 8773	M/s. Indian Oil Grease Plant, Mumbai	F&F	1342
49.	Aviation Turbine Fuel: Jet-A1	M/s Essar Oil Limited, Jamnagar,	F&F	1344
50.	Nycogrease GN-67	M/s AVI-OIL, N.Delhi	F&F	1471
51.	Servo Grease Graphite YCCA	M/s Indian Oil Corporation, Faridabad	F&F	1482
52.	Servo GEM XG-271	M/s Indian Oil Corporation, Faridabad	F&F	1484
53.	AviGrease XG-273	M/s AVI-OIL, N.Delhi	F&F	1514
54.	Aviation Turbine Fuel (Jet A-1)	M/s BORL, Bina (MP)	F&F	1717
55.	Turbonycoil 210A	M/s AVI-OIL, N.Delhi	F&F	1804
56.	Turbonycoil 35M	M/s AVI-OIL, N.Delhi	F&F	1807
57.	Turbonycoil 13 B	M/s AVI-OIL, N.Delhi	F&F	1808
58.	Turbonycoil 600	M/s AVI-OIL, N.Delhi	F&F	1837
59.	Aviation Turbine Fuel (ATF) Type Jet A-1	M/s HMEL, Punjab	F&F	1840
60.	Servogrease NK-50	Dev by:M/s. IOCL, Faridabad; Mfd By: M/s IOCL, Mumbai	F&F	1892
61.	Servogrease Svintsol – 01	Dev by:M/s. IOCL, Faridabad; Mfd By: M/s IOCL, Mumbai	F&F	1893
62.	Servogrease ZX-38	Dev by:M/s. IOCL, Faridabad; Mfd By: M/s IOCL, Mumbai	F&F	1894
63.	Minrol Grease No.9 to TU-38-001116-84	M/s. MOC, Kanpur	F&F	1917
64.	Aviation Turbine Fuel(ATF) Jet A1	M/s IOCL, Bongaigaon Refinery	F&F	1967
65.	Aviation Turbine Fuel(ATF) Jet A1	M/s Paradip Refinery, IOCL, Odisha	F&F	1985

**SECTION 15**  
**Mechanical Stores**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Sole Plate & Suspension Lug	M/s HAL (A/c), Bengaluru	A/C	5
2.	Universal Type Compressor Pt.No.ADE/UCVP/300	M/s Basic & Synthetic, Kolkatta	A/C	62
3.	Plain Pipe Clips	M/s Klip Corporation, Mumbai	A/C	82
4.	Lashing Hook & Lashing Buckle	M/s Engineering Devices, Delhi	KNP	178
5.	Compression Spring Pt.No.RT-06/1291-C-50-0.8-10-17 (IND)	M/s Imanes, Mumbai	A/C	183
6.	Split Pins	M/s HAL, Nasik Mfd by: M/s Venus, Mumbai	NSK	232
7.	Rear Shaft Pt.No.0.243.25.104/R	M/s HAL(A/c), Bengaluru	ENG	315
8.	Strap Assembly Pt.No.167600000	M/s HAL, Lucknow	LKO	489
9.	Union Pt.No.167100000	M/s HAL, Lucknow	LKO	504
10.	455 Lt. Incendiary Container Pt. No. 151-648	M/s HAL, A/c, Bengaluru	A/C	512
11.	1200 Lt Metal Drop Tanks	M/s HAL, A/c, Bengaluru	A/C	552
12.	Stainless Steel Spring Pt.No.9521015-02	M/s HAL, Koraput	KPT	580
13.	Stainless Steel Spring Pt.No.9521008-02	M/s HAL, Koraput	KPT	581
14.	Forging Elbow Pt.No.74-4100-06 (Steel 45)	M/s HAL, Koraput	KPT	583
15.	Instrument Mounting Clamp (3ATI) Pt.No.167800000	M/s HAL, Lucknow	LKO	586
16.	Roller for Mi-8/Mi-17 Helicopter	M/s Aeden Al. Fabric. Engg. Co., New Delhi	H/C	638
17.	Leaded Brass Rods (Hex & Round) Gr.LS-59-1	M/s Indoswe Engg., Pune	NSK	687
18.	Rotor Brake Pt No.1509 00 000	M/s HAL, Lucknow	LKO	745
19.	Split Pins 84 sizes	M/s Venus Manufacturing, Mumbai	LKO	833

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
20.	20 Spares of Nitrogen Bottle	M/s Surya Aerotech, New Delhi	A/C	887
21.	Steel Bushes – 8 Types	M/s B.P Engineers, Lucknow	LKO	913
22.	Pin Rivets – 10 Types	M/s B.P Engineers, Lucknow	LKO	914
23.	Helicoil S.S Screw Thread Inserts	M/s Fasteners Manufactures, Kolkata	A/C	987
24.	Magnaglo-14 AM (Wet Fluorescent Magnetic Particles)	M/s ITW Signode, A.P	MAT	1072
25.	Magnaflux 8A RED (Dry Magnetic Particles)	M/s ITW Signode, A.P	MAT	1073
26.	Magnaglo-2410 (Wet Fluorescent Magnetic Particles)	M/s ITW Signode, A.P	MAT	1074
27.	Magnaglo-20B (Wet Fluorescent Magnetic Particles)	M/s ITW Signode, A.P	MAT	1075
28.	Magnaflux-WA-2B (Water bath Conditioner)	M/s ITW Signode, A.P	MAT	1076
29.	Main Drive Flexible Shaft Assembly	M/s HAL H/C Division, Bengaluru	H/C	1091
30.	Riveted Tray Assembly Pt. No. 1720-010-22352	M/s BEL, Hyderabad	HYD	1144
31.	Catridge Holder Assembly (DP-234) Pt. No.11A/PV232-1A	D&D by: M/s 5 BRD, AF, Coimbatore; Mfd by: M/s SK Engg, Coimbatore	F&F	1359
32.	Cable Sub Assy Pt. No. 630-002 (LD)	M/s Premier Auto Cables, Lucknow	LKO	1382
33.	Brake Master Cylinder Pt. No. 108900000	M/s HAL, Accessories Division Lucknow	LKO	1393
34.	Hydraulic oil-IDG oil-Fuel cooler (H.E-1) Pt. No 41013911	M/s Bharat Heavy Plate & Vessels, Vishakapatnam	LKO	1399
35.	Fadec Cooler Pt. No.41015401	M/s Bharat Heavy Plate & Vessels, Vishakapatnam	LKO	1400
36.	GB.Oil Hydraulic Oil –Fuel Cooler (H.E-2) Pt. No. 41013912	M/s Bharat Heavy Plate & Vessels, Vishakapatnam	LKO	1401
37.	Secondary Heat Exchanger Pt. No. 41013910	M/s Bharat Heavy Plate & Vessels, Vishakapatnam	LKO	1402
38.	Regenerative Heat Exchanger Pt. No. 41013906	M/s Bharat Heavy Plate & Vessels,	LKO	1403

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
		Vishakapatanam		
39.	Reheater Pt. No.41013909	M/s Bharat Heavy Plate & Vessels, Vishakapatanam	LKO	1404
40.	Primary Heat Exchanger Pt. No. 41013905	M/s Bharat Heavy Plate & Vessels, Vishakapatanam	LKO	1406
41.	Sealing Strip Pt. No. 5.12.6407.0500.00	M/s Blaze Enterprises, Nasik	NSK	1417
42.	Shoulder Strap Pt. No. 7G.ZAB.9213.640.02	M/s 16 BRD AF, Palam, New Delhi	NSK	1419
43.	Waist Strap Pt. No. 11 BRD/1SC/3668.00&01	M/s 16 BRD AF, Palam, New Delhi	NSK	1420
44.	Brake Unit Pt. No. 153500000	M/s HAL, Accessories Division Lucknow	LKO	1422
45.	Main Wheel Pt. No. 153000000	M/s HAL, Accessories Division Lucknow	LKO	1431
46.	Nose Wheel Pt. No. 153300000	M/s HAL, Accessories Division Lucknow	LKO	1432
47.	Main Wheel Pt. No 153400000	M/s HAL, Accessories Division Lucknow	LKO	1462
48.	Nose Wheel Pt. No.153600000	M/s HAL, Accessories Division Lucknow	LKO	1465
49.	Accumulator (0.5L) Pt. No. 107400000	M/s HAL, Accessories Division Lucknow	LKO	1486
50.	Copper Locking Wires as per GOST 2112-79 (Grade MM)	M/s Bharat Wire, Mumbai	NSK	1493
51.	Stainless Steel Locking Wires Grade AISI -321	M/s Bharat Wire, Mumbai	NSK	1494
52.	Galvanized Low Carbon Steel Locking Wire as per GOST 792-67 (KO type)	M/s Bharat Wire, Mumbai	NSK	1495
53.	Pressure Gauge (Brake Accumulator) Pt. no.164200000	M/s HAL, Accessories Division, Lucknow	LKO	1497
54.	RAM 1750A T/R Unit	M/s HAL, SLRDC, Hyderabad	HYD	1506
55.	Φ50mm Gimbal Joint Pt.No.3G/4948/MB/99-00, Rev-02	D&D by: ADA, Bengaluru; Mfd by: M/s Metallic Bellows, Chennai	A/C	1508
56.	Φ63mm Gimbal Joint Pt.No.3G/5286/MB/2000-2001, Rev.3	D&D by: ADA, Bengaluru; Mfd by: M/s Metallic Bellows, Chennai	A/C	1509



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
57.	Φ32mm Gimbal Joint Pt.No.3G/5287/MB/2000-2001 Rev-04	D&D by: ADA, Bengaluru; Mfd by: M/s Metallic Bellows, Chennai	A/C	1510
58.	Accumulator Pt No.109300 000	D&D by: M/s HAL, ARDC, Bengaluru; Mfd by: M/s HAL, Accessories Division, Lucknow	LKO	1521
59.	TACAN-2901AL Unit	M/s HAL, Hyderabad	HYD	1527
60.	Brake Unit Pt. No.150300000	D&D by: M/s HAL, ARDC, Bengaluru; Mfd by: M/s HAL, Accessories Division, Lucknow	LKO	1541
61.	Nose Wheel Pt. No.150100000	D&D by: M/s HAL, ARDC, Bengaluru; Mfd by: M/s HAL, Accessories Division, Lucknow	LKO	1542
62.	Brake Master Cylinder Pt. No.109400 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division Lucknow	LKO	1548
63.	Brake Master Cylinder Pt. No.106400 000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division, Lucknow	LKO	1549
64.	Ground Charging Coupling Pt. No. A1K-I4-4010-000-001	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1566
65.	Main Wheel Pt. No.154500000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division Lucknow	LKO	1574
66.	Aircraft Mounted Accessory Gear Box (AMAGB) Pt No. AGB-01-0001-Issue-H	D&D by: CVRDE, Avadi, Chennai; Mfd by: M/s HAL, Aero Engine Division, Bengaluru	ENG	1577
67.	Quick Disconnect Coupling Dia16mm Nipple Assembly Pt. No.A1K-I7-1210-000-004	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1578
68.	Self Sealing Coupling (Drop Tank Half) Pt. No. A1K-I5-2020-000-001	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1579
69.	Electro Selector Pt. No.108000000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by:	LKO	1584

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
		M/s HAL, Accessories Division Lucknow		
70.	Carbon Brake (Naval Version) Pt. No. 154600000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division Lucknow	LKO	1587
71.	Nose Wheel Pt. No. 154400000	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Accessories Division Lucknow	LKO	1588
72.	Self Sealing Coupling (Pylon Half) Pt. No. A1K-I5-2035-000-001	D&D by: ADA, Bengaluru; Mfd by: M/s CTTC, Orissa	A/C	1590
73.	Quick Disconnect Coupling (QDC) Dia 25mm Cap Assembly Pt. No. A1K-I7-1225-000-003	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1591
74.	Quick Disconnect Coupling (QDC) Dia 16mm CAP Assy, Pt. No. A1K-I7-1215-000-002	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1592
75.	Quick Disconnect Coupling (QDC) Dia 25mm Socket Assy, Pt. No. A1K-I7-1240-000-003	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1594
76.	Quick Disconnect Coupling Dia 25mm Nipple Half, Pt. No. A1K-I7-1220-000-004	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1599
77.	Hot Air Filter Pt. No. A1K-I5-2140-000-002	D&D by: ADA, Bengaluru; Mfd by: M/s CTTC, Orissa	A/C	1600
78.	Quick Disconnect Coupling (QDC) Dia 14mm Socket Assembly Pt. No. A1K-I7-1232-000-004	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1602
79.	Quick Disconnect Coupling (QDC) Dia 14mm Nipple Assembly, Pt. No. A1K-I7-1235-000-004	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1603
80.	Quick Disconnect Coupling (QDC) Dia 6mm Nipple Assembly, Pt. No. A1K-I7-1146-000-001	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1616

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
81.	Quick Disconnect Coupling (QDC) Dia 6mm CAP Assembly Pt. No. A1K-I7-1149-000-001	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1620
82.	Nose Undercarriage & Main Door Uplock(Type-1), Pt. No.3000-100-000-003	M/s Turbotech Precision, Bengaluru	A/C	1622
83.	Nose Door Uplock (Type -2) Pt. No.3000-200-000-000-P	M/s Turbotech Precision, Bengaluru	A/C	1623
84.	Main Undercarriage Uplock (Type-3) Pt. No.3000-300-000-003	M/s Turbotech Precision, Bengaluru	A/C	1625
85.	Assembly Filter Case Drain (Engine Driven Pump) Pt. No.FIL-05-0001	D&D by: CVRDE, DRDO, Chennai; Mfd by: M/s GTTC, Bengaluru	A/C	1628
86.	Assembly Filter Drain LH&RH (Main) Pt. No. FIL-04-0001 & FIL-08-0001	D&D by: CVRDE, DRDO, Chennai; Mfd by: M/s GTTC, Bengaluru	A/C	1629
87.	Assembly Filter Low Pressure LH & RH (Main) Pt. No. FIL-06-0001 & FIL-09-0001 Iss.E	D&D by: CVRDE, DRDO, Chennai; Mfd by: M/s GTTC, Bengaluru	A/C	1630
88.	Assembly Filter High Pressure (EMDP), Pt. No. FIL-03-0001, Issue F	D&D by: CVRDE, DRDO, Chennai; Mfd by: M/s GTTC, Bengaluru	A/C	1631
89.	Assembly Filter High Pressure (EDP) Pt. No. FIL-02-0001, Issue F	D&D by: CVRDE, DRDO, Chennai; Mfd by: M/s GTTC, Bengaluru	A/C	1632
90.	Assembly Filter High Pressure LH & RH (Main), Pt. No. FIL-07-0001, Issue F & FIL-01-0001, Issue F	D&D by: CVRDE, DRDO, Chennai; Mfd by: M/s GTTC, Bengaluru	A/C	1633
91.	Nose Undercarriage Retraction Jack Pt.No.01F-4B 1020-000-000	D&D by: ARDC, M/s HAL, Bengaluru; Mfd. By: M/s HAL, A/c, Bengaluru	A/C	1638
92.	Nose Landing Gear Assembly Pt. No. 01F 4B 1010 000 000	D&D by: ARDC, M/s HAL, Bengaluru; Mfd. By: M/s HAL, A/c, Bengaluru	A/C	1639
93.	Main Landing Gear Assembly (LH) Pt. No. 01F 4A 1000 000 100	D&D by: ARDC, M/s HAL, Bengaluru; Mfd. By: M/s HAL, A/c, Bengaluru	A/C	1640

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
94.	Main Landing Gear Assembly (RH) Pt. No. 01F 4A 1000 000 200	D&D by: ARDC, M/s HAL, Bengaluru; Mfd. By: M/s HAL, A/c, Bengaluru	A/C	1641
95.	Feed Line Filter Assembly Pt. No.A1K-I5-2150-000-001	D&D by: ADA, DRDO, Bengaluru; Mfd by: M/s Mikroflo Filters,Hyderabad	A/C	1644
96.	Drop Tank 1200 Liters Pt. No.01L-5F-4030-000-00B	D&D by: ADA, DRDO, Bengaluru; Mfd by: M/s HAL, A/c, Bengaluru	A/C	1645
97.	Main Wheel Pt. No.1502 00 000	M/s HAL, Accessories Division, Lucknow	LKO	1652
98.	In-Board Pylon-LH&RH Pt. No. 01F-8C-0010-000-10B/20B	D&D by: ARDC, M/s HAL, Bengaluru; Mfd by: M/s HAL, Bengaluru	A/C	1659
99.	Mid-Board Pylon-LH&RH Pt. No. 01F-8D-0010-000-10A/20A	D&D by: ARDC, M/s HAL, Bengaluru; Mfd by: M/s HAL, Bengaluru	A/C	1660
100.	Out-Board Pylon-LH&RH Pt. No. 01F-8E-0040-000-10A/20A	D&D by: ARDC, M/s HAL, Bengaluru; Mfd by: M/s HAL, Bengaluru	A/C	1661
101.	Carbon Brushes 3 types	Des by: 11 BRD, AF; Dev & Mfd by:M/s Neotech Consultants & Engineers, Morena Dist (MP)	NSK	1663
102.	Pilot Control Stick grip Pt. No. HA-420112C00F	M/s Satluz Engineering, Kanpur	KNP	1670
103.	Temperature Switch, Pt. No.1733 000 00	D&D by: ASERDC, M/s HAL, Lucknow; Mfs by: M/s HAL, Lucknow	LKO	1674
104.	DC Master Box (IJT)	D&D by: ASERDC, M/s HAL, Lucknow; Mfd by: M/s HAL, Lucknow	LKO	1678
105.	MGB Housing Casting ALH, Pt. No.201P-636H-3101-701	M/s HAL, F&F, Bangalore	F&F	1690
106.	Rotor Segment, Pt. No. HF-AHM-5780	M/s HAL, F&F, Bangalore	F&F	1706
107.	Metalloceramic Sector, Pt. No. HF KT 89-81-1M	M/s HAL, F&F, Bangalore	F&F	1707

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
108.	QDC Dia 10mm Nipple assembly, Pt. No. A1K-I7-1200-000-002	D&D by: ADA, Bengaluru; Mfd by: GTTC, Bengaluru	A/C	1713
109.	Quick Disconnect Coupling (QDC) Dia 10 mm Cap Assembly, Pt. No. A1K-I7-1205-000-002	D&D by: ADA, Bengaluru; Mfd by: GTTC, Bengaluru	A/C	1714
110.	Nose wheel, Pt No.1537 00 000	M/s HAL Acessories Division, Lucknow	LKO	1753
111.	Nose door jack, Pt. No.1151 00 000	D&D by:M/s HAL,ASERDC, Lucknow; Mfd by: HAL, Acessories division, Lucknow	LKO	1764
112.	Brake unit, Pt No.154800000	D&D by:M/s HAL,ASERDC, Lucknow; Mfd by: HAL, Acessories division, Lucknow	LKO	1766
113.	Main wheel for Saras upgrade aircraft Pt. No.1547 00 000-110	M/s HAL, Lucknow	LKO	1771
114.	Gimbal assembly with venturi Pt. No.A1K-I4-5015-000-000	ADA, Bengaluru	A/C	1784
115.	Mounting bonded Assembly, Pt. No. LM-307-44-IKV	M/s Mecolam Engineering, Bengaluru	H/C	1810
116.	Quick Disconnect couplings (QDC)- 8 Types	M/s Vita Technology, Bengaluru	H/C	1823
117.	Foldable Strut Assembly Pt. No.POL-FSA-225-1600-S-000	M/s Polynex, Bengaluru	H/C	1852
118.	KIT Pneumatic Hose Assembly Pt. No.AE/F1286216	M/s. Aerospace Engineers, Salem	H/C	1853
119.	Fuel Filler Cap Assembly Pt. No. 10271-18H (AT-FFC-HD-01-00-00)	M/s. AMADO Tools Hyland Industrial Estate, Bengaluru	H/C	1864
120.	Valve Assembly Air Pt. No.06R 5B 1930 000 00F	ARDC, M/s.HAL, Bengaluru	A/C	1886
121.	Retraction Actuator Assembly – Nose Landing Gear (NLG) for HJT-36, Pt. No. 06T4B2000 0000D	D&D by: ARDC, M/s. HAL, Bengaluru; Mfd. By: M/s. HAL, Nasik	A/C	1901
122.	Nose Landing Gear Assembly, HJT-36, Pt. No. 06T4B 1000 000 00H	D&D by: ARDC, M/s. HAL, Bengaluru; Mfd. By: M/s. HAL, Nasik	A/C	1902
123.	Retraction Actuator Assembly – Main Landing Gear (MLG) HJT-36	D&D by: ARDC, M/s. HAL, Bengaluru; Mfd. By: M/s. HAL, Nasik	A/C	1904

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
124.	Metallo Ceramic Sectors Stator Brake Pad -2 types for Hawk A/c, Pt. No. HF85859-3 & HF85859-4	M/s. HAL, F&F Division, Bengaluru	F&F	1908
125.	Main Landing Gear (MLG) Assembly (LH&RH) for HJT – 36 A/c, Pt. No. 06T4A100000010F/20F	D&D by: ARDC, M/s. HAL, Bengaluru; Mfd. By: M/s. HAL, Nasik	A/C	1909
126.	Indigenous Canopy Sealing Nose	M/s. Elastomeric Engineers, Salem	NSK	1910
127.	Flap Switch, Pt. No. DO-228-9196	D&D by: M/s. HAL, TARDC, Kanpur; Mfd. by: M/s. HAL, TAD, Kanpur	KNP	1918
128.	Top Hub Plate and Bottom Hub Plate, Pt. No.: 201C 622H1010 001 'C' & 201C 622H1020 001 'D'	D&D by: RWR&DC, M/s. HAL, Bengaluru; Mfd. by: Aerospace Composite Division, M/s. HAL, Bengaluru	H/C	1921
129.	Support Assembly Casting Pt. No. 865042-13	M/s. HAL, F&F, Bengaluru	F&F	1928
130.	Main Wheel Tyre for SU- 30 MKI Aircraft – Size 1030x350 Aeromuscle Tubeless Tyre	M/s MRF Limited, Medak	NSK	1929
131.	Connector Casting Pt. No. FR 8402056	M/s. HAL, F&F, Bengaluru	F&F	1931
132.	Connector Casting Pt. No. FR 8402057	M/s. HAL, F&F, Bengaluru	F&F	1932
133.	Main U/C Uplock Pt. No. 324-32-30-010-000-013	ARDC, M/s HAL, Bengaluru	A/C	1933
134.	Connector Casting Pt. No. FR 8402055	M/s. HAL, F&F, Bengaluru	F&F	1934
135.	Oil Pump Assembly Pt. No. 03-04-750	D&D by: AERDC, HAL Bengaluru; Mfd by: Engine division, M/s HAL, Bengaluru	ENG	1947
136.	Bolts 4 Type (1) Bolt- Retaining Ring Outer Pt. No.201C623H2000 206 (2) Bolt-Stub Shaft Pt. No. 201C 620H 000 205 (3) Bolt- Hub plate Pt. No. 201C 622H 1000-202 (4) Bolt-pitch Horn (Spline) Pt. No. 201C-622H-0000-201	M/s Ankit fasteners Pvt Ltd, Bengaluru	H/C	1949



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
137.	Cartridge Holder Assembly Pt. No. 11A/PV232-1A	D&D by: 5 BRD, AF, Coimbatore & Mfd By: M/s KMS Suppliers, Coimbatore	F&F	1950
138.	Break off Tube Pt. No. 6D/729	D&D by: 11 BRD Air Force Ojhar Nasik-422221 Mfd by: Aryan Aerospace Fasteners, Nasik	NSK	1956
139.	Filter Housing Assembly Shakti Engine Pt. No. 03-05-090	D&D by: AERDC, M/s HAL Bengaluru; Mfd by: Engine Division, M/s HAL Bengaluru	ENG	1960
140.	Turbofan Cold Air Unit Pt. No.128300 000	M/s ASERDC, HAL, Lucknow	LKO	1962
141.	Nose Wheel, Pt. No. 155100000	M/s ASERDC, HAL, Lucknow	LKO	1999



**SECTION 16**

**Metallic Materials**

**(a. Aluminium Alloys b. Copper Alloys c. Magnesium Alloys d. Nickel Alloys e. Steels f. Super Alloys g. Titanium Alloys)**

**(a) Aluminium Alloys**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Al-alloy with 5% Magnesium	M/s Hindustan Al Corp. U.P	A/C	47
2.	Al-alloy AL-5	M/s HAL, Koraput	KPT	142
3.	Al Sheet Grade INDAL "IS"	M/s Indian Al Co. Ltd., Kolkatta	NSK	347
4.	High Strength Duralumin Rivet Wire Grade V-65	Indian Ordnance Factory, Nasik M/s HAL, Nasik	NSK	348
5.	Extruded Al Rod 'INDAL'-B26SW	M/s Indian Al Co., Kolkatta	NSK	367
6.	Extruded Al alloy Rod 'INDAL-3S-0'	M/s Indian Al Co., Kolkatta	NSK	371
7.	Extruded Al Rods 'INDAL-M57S-O'	M/s Indian Al Co., Kerala	NSK	396
8.	Extruded Al-alloy Rods -'INDAL- 24SW'	M/s Indian Al Co., Kerala	NSK	399
9.	Al-alloy Bars 5052 (ASM)	M/s Hindustan Al Corporation Ltd., U.P	NSK	420
10.	Al-alloy (I) AL-19	M/s HAL, Koraput	KPT	444
11.	Al-Sheet B51S In Condition 'W' & 'WP'	M/s Indian Al Co. Ltd., Belur, West Bengal	A/C	491
12.	Al Sheet '2S' In Condition 'O' & 'HZ'	M/s Indian Al Co. Ltd., Belur, West Bengal	NSK	492
13.	Al-alloy (AK-6) Stampings Pt.No.76-4903-13 & 75-4903-05	M/s HAL, Koraput	KPT	588
14.	Al-alloy HE-15A Extruded Bars (Forging Stock)	Ordnance Factory, Nagpur	F&F	617
15.	Extruded Al-alloy Rods AMG-2	M/s Indian Al Co., Kerala	NSK	688
16.	Extruded Al-alloy Rods AK-4-1	M/s Indian Al Co., Kerala	NSK	689
17.	Al Bronze Rod Gr. BRAZHMIS 10-3-1.5	M/s Indoswe Engg. Ltd., Pune	NSK	690
18.	Extruded Al-alloy Rods AK-8	M/s Indian Al Co., Kerala	NSK	691

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
19.	Extruded Al Bronze Tube Gr BRZHN-10-4.4	M/s Indoswe Engg. Ltd., Pune	NSK	692
20.	Al-alloy HE 15A-ST (Stretched)	Ordnance Factory, Nagpur	F&F	724
21.	Al-alloy HE 20A (Extruded Bars)	Ordnance Factory, Nagpur	F&F	736
22.	AG5MC Al-alloy Extruded Bars	Ordnance Factory, Nagpur	F&F	751
23.	Al Alloy Forgings of HE-15A Alloy	M/s HAL F&F Division, Bengaluru	F&F	950
24.	Al Alloy Extruded Bars 7010A ST	M/s Ordnance Factory, Nagpur	F&F	984
25.	Al Alloy AU4G1, Extruded flats in T351 Condition	M/s Ordnance Factory, Nagpur	F&F	1327
26.	Al alloy 5086 Extruded Bars in H-111 Condition	M/s Ordnance Factory, Nagpur	F&F	1330
27.	MDN 127A (HR Plates & CR Strips)	M/s MIDHANI, Hyderabad	MAT	1453
28.	Aluminium Alloy Al-356 Investment Casting (Pedestal unit & Gimbal box)	M/s Investment & Precision, Gujarat	F&F	1517
29.	Aluminium Alloy HF 15 Forgings IN T652 Condition	M/s Deccan Smiths Pvt Ltd., Hyderabad	MAT	1705
30.	Maraging steel MDN 300A (HR strips)	M/s MIDHANI, Hyderabad	MAT	1710
31.	Aluminium alloy HF15 forgings in T652 condition	M/s Deccan Smiths Pvt. Ltd., Hyderabad	MAT	1728
32.	Aluminium alloy AA 2219 extruded flat & profile in T8511	Ordnance Factory, Nagpur	F&F	1729
33.	Aluminium Alloy HF15 Forgings in T652 Condition	M/s Manjira Machine Builders Pvt Ltd, Andhra Pradesh	MAT	1833
34.	Aluminium Alloy HF 15 forgings in T652 condition	D&D by: Project ASTRA, DRDL, Hyderabad; Mfd by: M/s. Deccan smiths Pvt.Ltd, Hyderabad	MAT	1872

**(b) Copper Alloys**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1	Bronze 5 POC-5-25	M/s HAL, Koraput	KPT	180
2	Cold Rolled Cu Sheet Gr ETP To IS:191/67 & 1S:1972/61	M/s Rashtriya Metal Indus. Ltd., Mumbai	NSK	345
3	Al-Bronze Extruded Tube Gr(I) BRAZHMTS-I0-3-1.5	M/s Indoswe Engg. Pvt. Ltd., Pune	NSK	398
4	Copper Tubes Gr. M-3	M/s Alcobex Metals (P) Ltd., Jodhpur	KPT	499

**(c) Magnesium Alloys**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1	Magnesium Alloy ZM21A Cast Blocks	M/s Super Inducto Castings Pvt Ltd, Hyderabad	MAT	765
2	Magnesium Alloy ZM21A HR Plates	M/s MIDHANI, Hyderabad	MAT	766
3	Magnesium Cast Alloy ML-10	M/s HAL Koraput Division, Sunbeda	KPT	803
4	Dornier control column casting, Pt No. HA-420211A01G	M/s HAL, Sunabeda	KPT	1732

(d) Nickel Alloys

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1	Nickel Base Heat resistant alloy DMRL-Ni-Billets & F/HR Bars	M/s DMRL, Hyderabad	ENG	173
2	Nickel base heat Resistant Alloy AE-602 HR&CR Sheets	M/s MIDHANI, Hyderabad	MAT	1006
3	Nickel base heat Resistant Alloy AE-437A H.R bars (10 to 48mm)	M/s MIDHANI, Hyderabad	MAT	1007
4	Nickel base heat Resistant Alloy AE-437 B Forged HR Bars	M/s MIDHANI, Hyderabad	MAT	1008
5	Nickel Iron Base Heat Resistant Super Alloy-Superni-718A	M/s MIDHANI, Hyderabad	MAT	1291
6	Nickel Base Cast Alloy-ZS6Y-Vi (Remelt Stock)	M/s MIDHANI, Hyderabad	MAT	1292
7	Nickel Base Cast Alloy BZL12Y-VI (REMELT STOCK)	M/s MIDHANI, Hyderabad	MAT	1416
8	Nickel base Cast Alloy SuperCast 247 A (Remelt stock)	M/s MIDHANI, Hyderabad	MAT	1489
9	Electroless Nickel Plating of Maraging Steel Parts (MDN250A)	M/s CECRI, Karaikudi	F&F	1547

(e) Steels

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Chrome Molybdenum Steel SAE/AISI4130	M/s Mysore Iron & Steel, Bhadravathi	A/C	88
2.	Cast iron-XM Sealing Rings	M/s HAL Koraput	KPT	160
3.	Titanium stabilised Austenitic SS, MDN 321A: Billets and Forged Bars	M/s MIDHANI, Hyderabad	MAT	322
4.	C-25 Carbon Steel Rods Hot Rolled and Annealed	M/s Mahindra Ugine Steel, Mumbai	NSK	372
5.	Indigenously Developed Steel Gr (I) 38KHA	M/s Firth India Steel, Mumbai	NSK	384
6.	ESR Quality (Welding Filler Wire) GR(I) 20KH4GMA	M/s Firth India Steel, Mumbai	NSK	385
7.	ESR Quality Alloy Steel Rod Gr(I) 12 KHN-3A	M/s Firth India Steel, Mumbai	NSK	392
8.	Carbon Structural Steel Rods Gr(I) C-45 Hot Rolled & Annealed	M/s Mahindra Ugine Steel, Mumbai	NSK	393
9.	Welding Filler Wire, Steel Gr(I) 18KHMA	M/s Firth India Steel, Mumbai	NSK	394
10.	Flux coated Welding Electrode Tenacito-I8KHMA	M/s Advani Oerlikon, Mumbai	NSK	395
11.	Low Alloy Structural Steel Gr(I) 40KH	M/s Firth India Steel, Mumbai	NSK	397
12.	Ni-Chrome-Steel Wire Gr Steel(I) 16KHSN	M/s Firth India Steel, Mumbai	NSK	400
13.	Carbon Structural Steel Rods to A/c quality Cold drawn & Annealed Gr(I) C-45	M/s Firth India Steel, Mumbai	NSK	412
14.	2.5% Ni-Cr-Mo Steel Bar Forgings to BS-2S-98-1964	M/s Firth India Steel, Nagpur	A/C	423
15.	2.5% Ni-Cr-Mo (High Carbon) Steel Bar to BS-4S-99-1976	M/s Firth India Steel, Nagpur	NSK	424
16.	Low Alloy Steel Gr(I) 30KHGSNA	M/s Mahindra Ugine, Mumbai	NSK	438
17.	Raw Forgings WGI-1257, 1258 & 1259 using Steel (I) 30KHGSNA	M/s W.G.Forge & Allied Indus. Ltd., Mumbai	NSK	440
18.	ESR Quality Chrome-Vanadium Steel Wire Cold Draw Gr (I) 50KHFA	M/s Firth India Steel, Mumbai	NSK	449
19.	ESR Quality Cold Drawn Carbon Steel Gr (I) C-25	M/s Firth India Steel, Mumbai	NSK	455
20.	Niobium Stabilised SS MDN 347A F & HR Bars	M/s MIDHANI, Hyderabad	MAT	545

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
21.	Niobium Stabilised SS MDN347A F & HR Bars	M/s MIDHANI, Hyderabad	MAT	556
22.	Steel Forgings- 30X/CA Pt.No. 76-5555-971, 75-4906-05 & EL-4910-01	M/s HAL. Koraput	KPT	589
23.	Stainless Steel 12%Cr- Martensitic SS AE-961W	M/s MIDHANI, Hyderabad	MAT	614
24.	HR & Annealed Bar SS Steel Grade14KH17N2	M/s Firth India Steel, Nagpur	NSK	615
25.	Carbon Steel Wire Grade Steel 45	M/s Firth India Steel, Nagpur	NSK	616
26.	Ti Stabilised Austenitic SS MDN 321A : Annealed Wires	M/s MIDHANI, Hyderabad	MAT	619
27.	CD & Annealed Hexagon From SS Steel Grade 14KH17N2	M/s Firth India Steel, Nagpur	NSK	620
28.	CD Wire for Cold Upsetting From Steel Grade 20G2	M/s Firth India Steel, Nagpur	NSK	621
29.	CD Hexagon from low alloy Steel Grade 30KHGSA-SSH	M/s Firth India Steel, Nagpur	NSK	622
30.	Alloy Steel Spring Wire Grade 65 S-2 VASH	M/s Firth India Steel, Nagpur	NSK	623
31.	Cold Heading Wire from Steel Grade 30KHGSA-SSH	M/s Firth India Steel, Nagpur	NSK	624
32.	18%Cr-10%Ni, Ti Stabilised Austenitic SS 12X18H10T	M/s MIDHANI, Hyderabad	MAT	626
33.	Alloy Steel Wire for Cold Upsetting Gr Steel -16KHSN	M/s Firth India Steel, Nagpur	NSK	627
34.	CD&HR Steel Round Bar Gr 30KHGSNA-SSH	M/s Firth India Steel, Nagpur	NSK	628
35.	Carbon Steel Wire Gr Steel-15	M/s Firth India Steel, Nagpur	NSK	629
36.	Hot forged Round Bar from Steel Gr 20KH13	M/s Firth India Steel, Nagpur	NSK	630
37.	CD Hexagon Rod from Steel Gr 30KHGSA	M/s Firth India Steel, Nagpur	NSK	631
38.	CD Bar from Carbon Steel Gr Steel-25	M/s Firth India Steel, Nagpur	NSK	632
39.	Carbon Steel Wire Gr Steel-25	M/s Firth India Steel, Nagpur	NSK	633
40.	HR Bar from Steel Gr - 30KHGSA	M/s Firth India Steel, Nagpur	NSK	634
41.	CD Round Bars from Steel Gr 30KHGSA	M/s Firth India Steel, Nagpur	NSK	635
42.	CD & Annealed Structural Steel Bars Gr Steel-45	M/s Firth India Steel, Nagpur	NSK	636
43.	CD & Annealed Hexagon Gr Steel-45	M/s Firth India Steel, Nagpur	NSK	637

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
44.	Case carburising Low Alloy Steel MDN LA1 (12X2H4AW) HR Bars	M/s MIDHANI, Hyderabad	MAT	640
45.	Low Alloy Steel Bars to 15CDV6	M/s Firth India Steel, Nagpur	NSK	641
46.	High Strength Low Alloy Steel 30XGCN2A	M/s MIDHANI, Hyderabad	MAT	642
47.	30NCD16 Alloy Bars	M/s Firth India Steel, Nagpur	NSK	648
48.	16NCD13 Alloy Bars	M/s Firth India Steel, Nagpur	NSK	649
49.	25CD4S Alloy Steel Bars	M/s Firth India Steel, Nagpur	F&F	670
50.	Steel 30CD12 Alloy Steel Bars (Forging stock)	M/s Firth India Steel, Nagpur	F&F	671
51.	XC 18S Alloy Steel Bars	M/s Firth India Steel, Nagpur	F&F	672
52.	Low Carbon Alloy Steel MDN LA2 (16XCH):CD Wires	M/s MIDHANI, Hyderabad	MAT	682
53.	Titanium stabilised Austenitic SS MDN 321-A CR Sheets	M/s MIDHANI, Hyderabad	MAT	693
54.	Maraging Steel MDN-250A Forged Bars	M/s MIDHANI, Hyderabad	MAT	694
55.	Niobium stabilised Austenitic SS MDN 347A Sheets	M/s MIDHANI, Hyderabad	HYD	713
56.	Ti Stabilised Austenitic SS MDN 321A HR Bars	M/s MIDHANI, Hyderabad	MAT	732
57.	Low Alloy Steel Bars (Forging Stock)	M/s Firth India Steel, Nagpur	F&F	737
58.	HR Low Alloy Steel bar Gr.30 KHGSA	M/s Mahindra Ugine Steel, Mumbai	NSK	782
59.	Martensitic Stainless Steel MDN 431A	M/s MIDHANI, Hyderabad	MAT	903
60.	Co-MO-V Nitriding Steel MDN-132A (Forged Bars)	M/s MIDHANI, Hyderabad	MAT	927
61.	Martensitic S.S MDN-431A HR Bars	M/s MIDHANI, Hyderabad	MAT	928
62.	Ti stabilised Austenitic S.S MDN 321A C.D Wires	M/s MIDHANI, Hyderabad	MAT	991
63.	Case Carburising Steel MDN LA1(12X2H4AW) Forged Bars	M/s MIDHANI, Hyderabad	MAT	992
64.	Carbon Structural Steel Grade C-45-Sizes 45 & 70mm	M/s AV Alloys Ltd, Nandigaon	NSK	1118
65.	Carbon Steel Wire rope Galvanized Gr-V Dia-1.8, 2.5, & 3.6 mm	M/s Prakash Engineering, Mumbai	NSK	1129



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
66.	Seamless Stainless Steel Tubes 7 Sizes of ASTM A-269, TP-321	M/s Ratnamani Metals, Ahmedabad	NSK	1135
67.	Seamless SS Tubes 3 types, Size OD 10XWT 1.0 mm	M/s Ratnamani Metals, Ahmedabad	NSK	1136
68.	Low alloy Structural Steel -3 Types from Gd.-30 KHGSA	M/s Rampra Steel, Mumbai	NSK	1147
69.	Low alloy Structural Steel Gd.-30 KHGSA. H.R.bars	M/s MIDHANI, Hyderabad	MAT	1165
70.	S.S MDN-15-5 PH (Forged and HR bars)	M/s MIDHANI, Hyderabad	MAT	1166
71.	Wheel Axel Grade 30 KHGSN2A Pt. No. N429-4101-0003	M/s. HAL, Nasik	NSK	1286
72.	Low Alloy Steel E16NCD13, Forged Bars	M/s MIDHANI, Hyderabad	MAT	1294
73.	MDN 250A (Forged Bars And Flats)	M/s MIDHANI, Hyderabad	MAT	1816
74.	Cadmium plating of Maraging Steel Components using Fluoroborate bath	M/s HAL, ARDC, Bangalore	F&F	1826
75.	Ion Nitriding process for surface hardening of Maraging steel (MDN-250A or MIL-S-466508 Type-IV Gde 250)	M/s HAL, ARDC, Bangalore	F&F	1827
76.	ROD Pt No.11BRD/ISC/644800	D&D by:11 BRD, Nasik; Mfd by: M/s RPM, Nasik	NSK	1874
77.	Corosion Resistant Steel MDN 440C, HR base (for non- weldable application only)	M/s MIDHANI, Hyderabad	MAT	1926
78.	Case Carburising Steel MDN 9201 A (Forged Bars)	M/s MIDHANI, Hyderabad	MAT	1973
79.	Maraging Steel, MDN250A (Extruded Tubes)	M/s MIDHANI, Hyderabad	MAT	1975

(f) Super Alloys

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1				
2	Nickel base Heat Resistant Alloy Superni 75 (Billets & Bars)	M/s MIDHANI, Hyderabad	MAT	495
3	Nickel base Heat Resistant Alloy Superni 75A (Forged Bars)	M/s MIDHANI, Hyderabad	MAT	546
4	Nickel base Heat Resistant Alloy : AE 435 Alloy	M/s MIDHANI, Hyderabad	MAT	566
5	Nickel base Super Alloy AE 868	M/s MIDHANI, Hyderabad	MAT	762
6	Super Alloy Superni-263A-Heat Resistant Forged & HR Bars	M/s MIDHANI, Hyderabad	MAT	904
7	Super Alloy Superni-718A-Feed stock for Forgings) HR Bars	M/s MIDHANI, Hyderabad	MAT	905
8	Super Alloy Superni-718A-Feed stock for compressor Blades	M/s MIDHANI, Hyderabad	MAT	922
9	Super Alloy Superni-263A-Heat Resistant Ni base CR Sheets	M/s MIDHANI, Hyderabad	MAT	929
10	Superfer-696M Iron Base Heat Resistant Alloy H.R Bars & Billets	M/s MIDHANI, Hyderabad	MAT	1005

(g) Titanium Alloys

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1	Titanium Alloy DMRL-OT4-1 F & HR Bars	DMRL, Hyderabad	MAT	508
2	Titanium Alloy DMRL-OT4-1 CR Sheets	DMRL, Hyderabad	MAT	509
3	Alpha-Beta dual phase Heat Resistant Titanium Alloy: BT-3-1 (F & HR Bars)	M/s MIDHANI, Hyderabad	MAT	639
4	Alpha-Beta dual phase Heat Resistant Titanium Alloy BT-9 of Martensitic class	M/s MIDHANI, Hyderabad	MAT	646
5	Titanium Alloy BT-5-1, Heat resistant weldable, single phase Alpha alloy	M/s MIDHANI, Hyderabad	MAT	733
6	Titanium Alloy Titan 23A CR Sheets	M/s MIDHANI, Hyderabad	MAT	906
7	Titanium Alloy Titan 31A F& HR Bars-Feedstock for compressor blades	M/s MIDHANI, Hyderabad	MAT	907
8	Titanium Alloy Titan 31A (Triple Melted )F& HR Bars Feed stock	M/s MIDHANI, Hyderabad	MAT	908
9	Titanium Alloy Titan 31A (Double Melted) Feed stock for forgings	M/s MIDHANI, Hyderabad	MAT	909
10	Titanium Alloy Titan 23A F & HR Bars	M/s MIDHANI, Hyderabad	MAT	910
11	Titanium Alloy-TITAN-26A Forged & Machined Bars as Feed Stock	M/s MIDHANI, Hyderabad	MAT	1293
12	Shape Memory Alloy (SMA) & Ferrule Ring-5 sizes (20Φ, 25Φ, 32Φ, 40Φ, 50Φ, )	M/s HAL, F&F, Bengaluru	F&F	1657
13	Titanium alloy Titan 29A (Triple melted) forged bars as feedstock for forgings compression disc	M/s MIDHANI, Hyderabad	MAT	1782
14	Titanium alloy Titan 29A HR bars for compression blades	M/s MIDHANI, Hyderabad	MAT	1783

**SECTION 17**  
**Non-Metallic Materials**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Nylon Cordage 400 lbs Type BR / NY /10	M/s Best Cotton Ropes Mfg. Co. Mumbai	A/C	43
2.	Fibre Glass Cloth "Glass King"	M/s INDO Glass Pvt. Ltd., Mumbai	A/C	84
3.	Champion Super Metallic Style-54	M/s Asbestos & Jointing P. Ltd Mumbai	NSK	161
4.	Wooden Propeller Pt. No.121-56002 Issue B for HT-2(A/c)	M/s HAL, A/C, Bangalore	A/C	170
5.	Glass Cloth	M/s Montex Industries, Mumbai	A/C	177
6.	Silica Glass Tube (Coring glass as per Cat. H13)	M/s Borosil Glass Works Ltd., Mumbai	A/C	226
7.	Elastic Cotton Fabric (as per quality TTP 4524 Grey 18" Dia)	M/s Borivli Hosiery Mills, Mumbai	NSK	237
8.	Murarka Fibre Glass Tape Unvarnished	M/s Murarka Pvt. Ltd., Ahmedabad	NSK	241
9.	Maltoprene Blocks (Rigid PU foam) 'REGITHERM'	M/s U Foam Ltd., Hyderabad	H/C	248
10.	Leather Full Chrome, Black, Goat	M/s Gordon Woodroffe & Co. Pvt. Ltd., Madras	NSK	252
11.	Champion Style 59-Oil Special Asbestos (Non metallic gasket material)	M/s Asbestos & Jointing Mfg. Co. P Ltd, Mumbai	KPT	274
12.	Fiber Glass Cloth Trade Name "INSUGLASS"	M/s Hatim Dielectric P Ltd., Kolkatta	H/C	302
13.	Hose Sleeve Pt.No.86-7806-85-3ND Sutt Ventilation and Anti 'G' Hose Pt. No.S-22-7801-0 IND	M/s HAL, Nasik	NSK	346
14.	Indigenous Flux "Tapadia GR-80"	M/s Tapadia Eng & Traders Pvt.Ltd., Raipur	NSK	391
15.	Insulator Bush, Sleeve and Washer (PRP 15-03, PRP 15-04, PRP 15-11)	M/s Plastic Products Engg.Co., Ahmedabad	NSK	439
16.	Fused Flux INDARC-BRD-1	M/s Indian Oxygen Ltd., Mumbai	NSK	441
17.	Antimony Free Tin Lead Solder (I) POSK 50-18 Dia 1.6 mm	M/s Saru Smelting Pvt.Ltd., U.P	NSK	451
18.	Acrylic Cement ISRO MM7	M/s HAL, Nasik	NSK	453
19.	Rigid Polyurethane Foam	M/s Industrial Foam Pvt Ltd., New Delhi	A/C	497

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
20.	Glass Ceramic/Crystallised Enamel FRIT (CG-ABK-I3)	CECRI, Karaikudi	KPT	557
21.	Heat Insulation K-400 Coating	M/s HAL, Koraput	KPT	584
22.	Cooling System Hoses Pt.No.31606910810, 31306900904	M/s Fenner (India) Ltd, Madurai, T.N	H/C	800
23.	Graphite Sealing Ring Pt. No. 470450164 & Graphite Bush	M/s Assam Carbon, Patancheru	KPT	808
24.	Metal Ceramic Insert H.No. 9504590-02	M/s ATS Tools, Hyderabad	KPT	1026
25.	Moltoprene Blocks (Rigid Polyurethane Foam)	M/s U Foam, Hyderabad	H/C	1097
26.	Moltoprene Blocks (Rigid Polyurethane Foam)	M/s U Foam, Hyderabad	H/C	1098
27.	Plexiglas GS-249	M/s ROHM Chemische Fabrik, Germany	NSK	1111
28.	Acrylic Sheet (55"X53"X0.472")	M/s Spartech Poly Cast, USA	NSK	1113
29.	Teflon Hoses 4 Types	M/s Titeflex. Europe SA France	NSK	1114
30.	Fabric-500	M/s Tulsi Rubber Products, Pune	NSK	1263
31.	Graphite Seal castings	M/s HAL, Koraput Division, Sunabeda	KPT	1336
32.	Canopy side Glass (Port), (STBD)	11 BRD Air Force station , Nasik	NSK	1362
33.	Glass wool Mat GUJWOOL- 3-5, 3-10,3-15,3-20	M/s Gajara Glass, Mumbai	NSK	1372
34.	Carbon- Carbon Brake Discs (Mark-III) components	M/s (HTCC), DRDO Hyderabad	HYD	1407
35.	Free Length Rubber Hoses (Pt. No. 4OU4-13 Blaze & 4OU6-13 Blaze)	M/s Blaze Enterprizes, Nasik	NSK	1418
36.	Anti Skid Controller Pt. No. 228700000	M/s HAL Accessories Division Lucknow	LKO	1425
37.	Carbon Brake Pt. No. 153100000	M/s HAL Accessories Division Lucknow	LKO	1426
38.	Brake Piston Insulator	M/s DMRL, DRDO, Hyderabad	MAT	1648
39.	EMI/EMC shielding gasket materials, Pt. No. 888 (Type 'A' Blue Colour) & 999 (Type 'E' Grey Colour)	M/s SSD Polymers, Machilipatnam	HYD	1667
40.	Carbon-carbon brake discs (MARK-III) components for Tejas A/c (Navy Version)	D&D by: HTCC, DRDO, Hyderabad; Mfd by: M/s GIL, Bengaluru	MAT	1734

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
41.	Aviation Grade Carbon Brushes Gr.MGS-7	M/s. NeoTech Consultants & Engg Pvt. Ltd., Madhya Pradesh	NSK	1857
42.	Fibre Glass Fabric Type S2/34 (Variety 6)	M/s. Urja Products Pvt. Ltd., Ahmedabad	F&F	1881
43.	Polytetrafluoroethylene (PTFE) – AE6564	M/s Aerospace Engineers, Salem	F&F	1882

**SECTION 18**  
**Paints, Varnishes & Enamels**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	ORION -516: Heavy Duty Carbon and Paint Remover	M/s Oriental Chemical Works, Kolkata	A/C	3
2.	ORION 19P Penetrant Dye -233C/131 with Remover, Developer	M/s Oriental Chemical Works, Kolkata	A/C	4
3.	ORION 5005 Liquid Cleaning Compound	M/s Oriental Chemical Works, Kolkata	A/C	8
4.	Rain Repellant DRL(M)	DRL (M), Kanpur	A/C	107
5.	High Heat Resisting Enamel DROC4/1517/78	DRL (M), Kanpur	A/C	129
6.	Duel Mix Cement PT A & B	DRL (M), Kanpur	A/C	139
7.	High Temperature Vitreous Enamel CG-B-55A	M/s CGCRI, Kolkatta.	KPT	143
8.	Alucoat Process	M/s Srinivasa Industrial, Bengaluru	A/C	185
9.	Pentaphthalic Varnish RDL-919	M/s Asian Paints (India) Ltd., Mumbai	NSK	242
10.	Apcolite red oxide zinc chromate primer SS-1089	M/s Asian Paints (India) Ltd., Mumbai	NSK	243
11.	Insulating Varnish 1126	M/s Hardcastle & Waud, Mumbai	NSK	246
12.	Shalimar Erosion resistant enamel	M/s Shalimar Paints Ltd. Kolkatta	KPT	383
13.	Silicone base Varnish SSAV-007	M/s Star Paint & Oil Industries, Mumbai	NSK	414
14.	Silicone base Varnish SSAV-005	M/s Star Paint & Oil Industries, Mumbai	NSK	415
15.	Southlac Antichill thinner	M/s Southfield Paints, Bengaluru	A/C	417
16.	Southlac Thinner to DEF-1216A	M/s Southfield Paints, Bengaluru	A/C	427
17.	Etch Primer DEF 1408	M/s Southfield Paints, Bengaluru	A/C	454
18.	Star Triplex Insulating Varnish SSEV 601	M/s Star Paint & Oil Industries, Mumbai	KPT	505
19.	Southlac Finish coat Paint material for Cellulose finishing scheme on metal surfaces to DTD 899A	M/s Southfield Paints, Bengaluru	A/C	520
20.	Star Heatex (Al) Varnish SSAV-002	M/s Star Paint & Oil Industries, Mumbai	KPT	559



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
21.	Epoxy primer Yellow (Stoving) to DTD-5567A	M/s Southfield Paints, Bengaluru	A/C	569
22.	Epoxy Matt Black Paint to DTD-5567A	M/s Southfield Paints, Bengaluru	A/C	570
23.	Acrylic Paint (Dark Green) to DTD-5599A	M/s Southfield Paints, Bengaluru	A/C	571
24.	High Temp. Enamel CG-B 55A (Modified)	M/s HAL, Koraput	KPT	579
25.	MEC-20B Powder	M/s Metallising Equipment, Jodhpur	KPT	802
26.	Chromium carbide Ni Cr coating process	M/s HAL, Engine Division, Bengaluru	ENG	809
27.	Polish Perspex	M/s A.R Chemical Industries, Kanpur	KNP	829
28.	Southtuff Polyurethane Paint to DTD5580A	M/s Southfield Paints, Bengaluru	H/C	853
29.	Chelmok 220 with primer 205	M/s Lord India, Nasik	NSK	1092
30.	Pentadur Epoxy Primer	M/s Bombay Paints, Mumbai	NSK	1257
31.	ISO Propanol/ ISO Propyl Alcohol (SQ)	M/s Thermoelectron, Mumbai	NSK	1647
32.	Southgard Epoxy black glossy paint, hardener & thinner	M/s Southfield Paints, Bengaluru	F&F	1720
33.	Southgard Epoxy Primer/Filler Grey, Hardener & thinner	M/s Southfield Paints, Bengaluru	F&F	1721
34.	Southgard Antiskid paint black (Type II)	M/s Southfield Paints, Bengaluru	F&F	1803
35.	Cold Curing Epoxy Primer	M/s Toyo Paints, Bengaluru	A/C	1834
36.	Pre Treatment Etching Primer to DEF-1408	M/s Toyo Paints, Bengaluru	A/C	1835
37.	Cold Curing Polyurethane Paint to DTD 5580A	M/s Toyo Paints, Bengaluru	A/C	1836
38.	Southprime ETCH Primer Southgard Yellow Primer & Southane High Solid Polyurethane Paint (3 Types)	M/s Southfield Paints, Bengaluru	H/C	1878
39.	Cellulose Finish Paint DTD-899A (Golden Yellow)	M/s Toyo Paints, Bengaluru	A/C	1889
40.	Cellulose Finish Paint DTD-899A (White)	M/s Toyo Paints, Bengaluru	A/C	1890
41.	Thinner for Cellulose Nitrate Paints DEF-1216A	M/s Toyo Paints, Bengaluru	A/C	1891

**SECTION 19**  
**Rubber Compounds**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Swastik Rubber Compound 724, 802, 1026 & 1046	M/s Swastik Rubber Products, Pune	A/C	89
2.	Rubber Compound NPM -1078	M/s Hilton Rubbers, Haryana	NSK	186
3.	DRL (M) Compound "A" Issue-2	M/s Aliga Rubber Works, Kanpur	KNP	200
4.	Di Butyl Phthalate (DBP)	M/s Indo Nippon Chemicals, Mumbai	NSK	235
5.	VT-I Rubber Compound (Fluro Carbon base)	M/s Swastik Rubber Products, Pune	KPT	247
6.	Silicon Rubber Compound SI-109	M/s Swastik Rubber Products, Pune	NSK	258
7.	Nitrile Rubber Compound SMD-1813	M/s Swastik Rubber Products, Pune	NSK	341
8.	Rubber Compound MV-3075 LC66	M/s Machard Industrial, Mumbai	KPT	389
9.	Rubber Compound 1305	M/s Speciality Elastomers, Mumbai	KPT	531
10.	Rubber Compound SEN-1001 (Nitrile Base)	M/s Speciality Elastomers, Mumbai	KPT	532
11.	Rubber Compound Haltrile-01	M/s HAL, F&F, Bengaluru	A/C	558
12.	Nitrile Base Rubber Compound SEN 1010	M/s Speciality Elastomers, Mumbai	KPT	560
13.	Silicone Base Rubber Compound VKS-2004	M/s Vee-Kay Rubber, Mumbai	KPT	561
14.	Silicone Base Rubber Compound VKS-2005	M/s Vee-Kay Rubber, Mumbai	KPT	562
15.	Silicone Base Rubber Compound VKS-2002	M/s Vee-Kay Rubber, Mumbai	KPT	594
16.	Silicone Base Rubber Compound VKS-2003	M/s Vee-Kay Rubber, Mumbai	KPT	595
17.	Silicone Base Rubber Compound VKS-2001	M/s Vee-Kay Rubber, Mumbai	KPT	596
18.	Rubber Compound HA-I609	M/s HAL, Nasik	NSK	608
19.	Rubber Compound HA-7614	M/s HAL, Nasik	NSK	609
20.	Rubber Compound HA-4411	M/s HAL, Nasik	NSK	610
21.	Rubber Compound HA-2513	M/s HAL, Nasik	NSK	611

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
22.	Rubber Compound HA-4417	M/s HAL, Nasik	NSK	612
23.	Rubber Compound HA -4501	M/s HAL, Nasik	NSK	613
24.	Rubber Compound SPN-6	M/s Polymer Enterprises, Nasik	NSK	659
25.	Rubber Compound Polysil-5	M/s Polymer Enterprises, Nasik	NSK	663
26.	Rubber Compound Haltrile-04	M/s HAL, F&F, Bengaluru	F&F	675
27.	Rubber Compound HA-1818	M/s HAL, Nasik	NSK	700
28.	Rubber Compound HA-1821	M/s HAL, Nasik	NSK	701
29.	Rubber Compound HA-1620C	M/s HAL, Nasik	NSK	702
30.	Rubber HA-1819	M/s HAL, Nasik	NSK	703
31.	Rubber HA-1825	M/s HAL, Nasik	NSK	704
32.	Rubber HA-1805	M/s HAL, Nasik	NSK	705
33.	Rubber Compound HA-4415	M/s HAL, Nasik	NSK	714
34.	Rubber Compound HAL-203B	M/s HAL, Nasik	NSK	715
35.	Rubber Compound TAPS-1	M/s HAL, Nasik	NSK	716
36.	Rubber Compound HA-7610	M/s HAL, Nasik	NSK	719
37.	Rubber Compound HA-2607	M/s HAL, Nasik	NSK	720
38.	Rubber HA-1608	M/s HAL, Nasik	NSK	721
39.	Rubber Compound Haltrile-05 to HM 4885	M/s HAL, F&F, Bengaluru	F&F	738
40.	Rubber Compound Haltrile-19 to HM 4886	M/s HAL, F&F, Bengaluru	F&F	739
41.	Rubber Compound Haltrile-02 to NFL-17-101A-23B7	M/s HAL, F&F, Bengaluru	F&F	740
42.	Rubber Compound Haltrile-07 to HM-4888	M/s HAL, F&F, Bengaluru	F&F	741
43.	Rubber Compound Haltrile -03 to NFL-17-101A-21A7	M/s HAL, F&F, Bengaluru	F&F	742
44.	Rubber Compound Haltrile-16 to NFL-17-101A-21B4	M/s HAL, F&F, Bengaluru	F&F	743

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
45.	Rubber Compound Haltrile-13 to NFL-17-120B-20A9	M/s HAL, F&F, Bengaluru	F&F	752
46.	Rubber Compound Haltrile-06	M/s HAL, F&F, Bengaluru	F&F	753
47.	Rubber Compound Haltrile-17 to HM 4889	M/s HAL, F&F, Bengaluru	F&F	754
48.	Rubber Compound Haltrile-09	M/s HAL, F&F, Bengaluru	F&F	755
49.	Rubber Compound Haltrile-01	M/s HAL, F&F, Bengaluru	F&F	756
50.	Rubber Compound Haltrile-08	M/s HAL, F&F, Bengaluru	F&F	759
51.	Rubber Compound Haltrile-10	M/s HAL, F&F, Bengaluru	F&F	760
52.	NPE-3 Nitrile Base Rubber Compound	M/s Polymer Enterprises, Nasik	KPT	764
53.	Rubber Compound Halprene-01	M/s HAL, F&F, Bengaluru	F&F	768
54.	Rubber Compound Halprene-15	M/s HAL, F&F, Bengaluru	F&F	769
55.	Rubber Compound Haltrile-20	M/s HAL, F&F, Bengaluru	F&F	770
56.	Rubber Compound Halprene-03	M/s HAL, F&F, Bengaluru	F&F	771
57.	Rubber Compound Halprene-21	M/s HAL, F&F, Bengaluru	F&F	772
58.	Silicone Rubber Compound SH 70±5 to HM 4924	M/s Veekay Rubber Products, Mumbai	F&F	785
59.	Silicone Rubber Compound SH 60±5 to HM 4923	M/s Veekay Rubber Products, Mumbai	F&F	786
60.	Silicone Rubber Compound SH 50±5 to HM 4922	M/s Veekay Rubber Products, Mumbai	F&F	787
61.	Fluoro Carbon R.C. - SH 75±5 to HM 4921	M/s Speciality Elastomers, Mumbai	F&F	788
62.	Rubber Compound Haltrile-11	M/s HAL, F&F, Bengaluru	F&F	796
63.	Rubber Compound Haltrile-22	M/s HAL, F&F, Bengaluru	F&F	797
64.	Rubber Compound SEN-1683	M/s Speciality Elastomers, Mumbai	KPT	806
65.	Silicone Base Rubber Compound Polysil-1	M/s Polymer Enterprises, Nasik	KPT	837
66.	Silicone Base Rubber Compound Polysil-2	M/s Polymer Enterprises, Nasik	KPT	838
67.	Silicone Base Rubber Compound Polysil-4	M/s Polymer Enterprises, Nasik	KPT	839

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
68.	Fluorocarbon base Rubber Compound PV-1	M/s Polymer Enterprises, Nasik	KPT	840
69.	Rubber Compound Viton-1316 (Brown)	M/s Speciality Elastomers, Mumbai	KPT	856
70.	Rubber Compound BP-V-50	M/s B.P Engineers Pvt Ltd, Lucknow	LKO	859
71.	Rubber Compound BP-1 (Nitrile Base)	M/s B.P Engineers Pvt Ltd, Lucknow	LKO	861
72.	Rubber Compound BP-12 (Nitrile Base)	M/s B.P Engineers Pvt Ltd, Lucknow	LKO	862
73.	Nitrile Base Rubber Compound SENV-500(Green)	M/s Speciality Elastomers, Mumbai	KPT	871
74.	Rubber Compound-Hypalon	M/s HAL, F&F, Bengaluru	F&F	902
75.	Rubber Compound NPE-1	M/s Polymer Enterprises, Nasik	KPT	945
76.	Rubber Compound KPT/ST/201	M/s HAL Koraput Division, Sunabeda	KPT	946
77.	Silicone Base Rubber Compound KPT/SR/201	M/s HAL Koraput Division, Sunabeda	KPT	949
78.	Fluro Silicone Rubber Compound Grade 60	M/s Bangalore Rubber, Bengaluru	F&F	981
79.	Fluro Silicone Rubber Compound Grade 70	M/s Bangalore Rubber, Bengaluru	F&F	982
80.	Silicone Base Rubber Compound VKS-1338	M/s Veekay Rubber products, Mumbai	KPT	988
81.	Ethylene Propylene Diene Monomer (EPDM)	M/s HAL (F&F) Division, Bengaluru	H/C	995
82.	Rubber Compound DRL(M) A6	M/s Ailga Rubber Works, kanpur	KNP	999
83.	Silicone base Rubber Compound Polysil-6	M/s Polymer Enterprises, Nasik	KPT	1029
84.	Rubber Compound RA 594	M/s Blaze Enterprises, Nasik	NSK	1108
85.	Polysulphide Sealant (RDL-945)	M/s Chocksey Chemicals, Mumbai	NSK	1109
86.	Rubber Compound NPE-1	M/s Polymer Enterprises, Nasik	NSK	1110
87.	Rubber Compound NPE-3	M/s Polymer Enterprises, Nasik	NSK	1115
88.	Rubber Compound EE-3826 (Calendar Rubber Sheet)	M/s Elastomeric Engineers, Salem	NSK	1116
89.	Nitrile Base R.C Haltrile-23 to NFL 17.121A.2138	M/s HAL, F&F, Bengaluru	F&F	1151
90.	Nitrile Base R.C Haltrile-12 to DTD-560 Gde B, Quality P	M/s HAL, F&F, Bengaluru	F&F	1153

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
91.	Neoprene base R.C Halprene-02 to HM-4929 Issue 'A'	M/s HAL, F&F, Bangaluru	F&F	1154
92.	Neoprene Base R.C Halprene-04 to NFL-17-131A-31B4	M/s HAL, F&F, Bangaluru	F&F	1155
93.	Natutral Base R.C Halnat-01 to HM4931-Issue 'A'	M/s HAL, F&F, Bangaluru	F&F	1157
94.	Silicone Base R.C EE-4923 to HM 4923	M/s Elastomeric Engineers, Salem	F&F	1167
95.	Silicone Base R.C EE-5531 to DTD 5531 Gr-70	M/s Elastomeric Engineers, Salem	F&F	1168
96.	Fluro carbon Base rubber Compound EE-4920	M/s Elastomeric Engineers, Salem	F&F	1169
97.	Fluro carbon Base rubber Compound EE-61D6	M/s Elastomeric Engineers, Salem	F&F	1170
98.	Silicone Base R.C EE-4922	M/s Elastomeric Engineers, Salem	F&F	1171
99.	Nitrile Base R.C EE 560 Gr B Quality P	M/s Elastomeric Engineers, Salem	F&F	1172
100.	PolyChloroprene Base R.C EE-31-B4	M/s Elastomeric Engineers, Salem	F&F	1173
101.	Nitrile Base R.C EE 458A-Gr-A Gr-1	M/s Elastomeric Engineers, Salem	F&F	1174
102.	Chloroprene base R.C EE 31B6 to NFL-17-131A-31B6	M/s Elastomeric Engineers, Salem	F&F	1175
103.	Nitrile Base R.C EE 4885 to HM 4885 Issue-C	M/s Elastomeric Engineers, Salem	F&F	1176
104.	Nitrile Base R.C Elastonitrile-01 to DTD 560 Gr-C Qly P	M/s Elastomeric Engineers, Salem	F&F	1177
105.	Nitrile Base R.C Elastonitrile-02 to MIL-R-6855 class 1 Gr 60	M/s Elastomeric Engineers, Salem	F&F	1178
106.	Styrene Butadyne base R. C Elast SBR-01	M/s Elastomeric Engineers, Salem	F&F	1179
107.	2,6 Di Tertiary Butyl 4-Methyl Phenol	M/s Quality Industries, Maharastra	F&F	1210
108.	Calender Rubbers UT-203B, UT-3826 & Rubberised Fabric	M/s Unirub Techno India, Pune	NSK	1212
109.	Natural Base R.C HA-4712 to TUMKH-P-1428 54 R	M/s HAL, Nasik Division, Ojhar	NSK	1217
110.	Fluro Silicon Base R.C- FS 14	M/s Filtrum Polymer, Pune	NSK	1221
111.	Fluro Silicon Base R.C PFS-1	M/s Polymer Enterprises, Nasik	KPT	1231
112.	Fluro carbon Base rubber Compound PV-2	M/s Polymer Enterprises, Nasik	NSK	1236
113.	Nitrile Base R.C. NPE-2 to TY38-005-1166-73	M/s Polymer Enterprises, Nasik	KPT	1249



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
114.	Rubber Compound DMS FE-75 (Fluoro Elastomer base RC)	M/s Ailga Rubber Works, Kanpur	KNP	1260
115.	Rubber Compound HA -1824 (Gd.IRP-1054)	M/s HAL, Nasik	NSK	1262
116.	Rubber Compound EE-24 B7	M/s Elastomeric Engineers, Salem	F&F	1274
117.	Rubber Compound EE-21 A7	M/s Elastomeric Engineers, Salem	F&F	1275
118.	Fluoro Silicone Base Rubber Compound to MIL-R-25988 Class 1 Gr.60	M/s Elastomeric Engineers, Salem	F&F	1276
119.	Polychloroprene Base Rubber Compound EE-31 B5	M/s Elastomeric Engineers, Salem	F&F	1277
120.	Fluoro Silicone Base Rubber Compound AMS-33 26C	M/s. Sujan Industries, Mumbai	F&F	1284
121.	Neoprene Base Rubber Compound HM-4930	M/s. Sujan Industries, Mumbai	F&F	1285
122.	Nitrile Base Rubber Compound Summrub-01-600	M/s. Summit-Tech, Bengaluru	F&F	1308
123.	Nitrile Base Rubber Compound NPE-8	M/s. Polymer Enterprises, Nasik	NSK	1310
124.	Fluorocarbon Base Rubber Compound EE-64C8	M/s Elastomeric Engineers, Salem	F&F	1329
125.	Nitrile Base Rubber Compound DRL(M) A10	M/s. Ailga Rubber Works, Kanpur	KNP	1332
126.	Nitrile Base Rubber Compound EE-20 B9	M/s Elastomeric Engineers, Salem	F&F	1333
127.	Nitrile Base Rubber Compound HM-4888	M/s. Sujan Industries, Mumbai	F&F	1343
128.	Rubber Compound PNR-01	M/s. Polymer Enterprises, Nasik	NSK	1376
129.	MTL-8 Indigenous sponge rubber cord dia- 8mm	M/s Motilal Dulichand Pvt Ltd, Kanpur	NSK	1378
130.	Silicone Base Rubber Compound EE-50D7	M/s Elastomeric Engineers, Salem	F&F	1441
131.	Fluorocarbon Base Rubber Compound EE-/FKM-01	M/s Elastomeric Engineers, Salem	F&F	1443
132.	Fluro Silicone Base Rubber Compound (Blue) SI/FSR/6-18-35	M/s. Sujan Industries, Mumbai	F&F	1447
133.	Nitrile Base Rubber Compound HM-4889	M/s. Sujan Industries, Mumbai	F&F	1448
134.	Rubber Compound HA-4802A	M/s HAL, Nasik Division, Ojhar	NSK	1466
135.	Nitrile Base Rubber Compound EE-560 Gr.A Qly.R	M/s Elastomeric Engineers, Salem	F&F	1474
136.	Butyl Rubber Compound EE40B7	M/s Elastomeric Engineers, Salem	F&F	1475



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
137.	Nitrile Base Rubber Compound AE-4934	M/s Aerospace Engineers, Salem	F&F	1483
138.	Fluoro Carbon Rubber (Viton) Compoud HM4919	M/s Specialty Elastomers, Mumbai	F&F	1562
139.	Natural Rubber Compound ARLO2 (HAL NAT O2)	M/s Agarwal Rubber, Hyderabad	F&F	1649
140.	Fluorosilicone Base Rubber Compound, AE 61D6	M/s Aerospace Engineers, Salem	F&F	1672
141.	Fluorocarbon base Rubber (VITON) Compound EE 4921	M/s Elastomeric Engineers, Salem	F&F	1673
142.	FluroSilicone Base Rubber Compound AE MIL-R-25988B Class-I Gr. 60	M/s Aerospace Engineers, Salem	F&F	1665
143.	Indigenous Rubber Compound NPE-13	Developed by: 11 BRD, AFS, Nasik; Mfd by:M/s Polymer Enterprises, Nasik	NSK	1666
144.	Fluorosilicone Rubber Compound BP-FS-25	M/s B.P Engineers Pvt. Ltd., Lucknow	LKO	1704
145.	Nitrile base rubber compound BP-22	M/s B.P Engineers Pvt. Ltd., Lucknow	LKO	1722
146.	Neoprene base rubber compound NFL-17-131-31B5	M/s Sujan Industries, Mumbai	F&F	1723
147.	Neoprene base rubber compound NFL-17-131-31B6	M/s Sujan Industries, Mumbai	F&F	1724
148.	Neoprene base rubber compound NFL-17-131-31B8	M/s Sujan Industries, Mumbai	F&F	1725
149.	Nitrile base rubber compound BHL-721	D&D by: 11 BRD, AF, Nasik; Mfd by: M/s Blaze Enterprises, Ambad, Nasik	NSK	1733
150.	Neoprene base rubber compound NFL-17-131-31B4	M/s Sujan Industries, Mumbai	F&F	1745
151.	Nitrile base rubber compound B14-1	M/s IRMRA, Thane	NSK	1747
152.	Nitrile Base Rubber Compound NPE-12	M/s Polymer Enterprises, Nasik	NSK	1843
153.	Silicone Base Rubber Compound AE-5531 Gr-70	M/s Aerospace Engineers, Salem	F&F	1905
154.	Silicone Base Rubber Compound AE-4922	M/s Aerospace Engineers, Salem	F&F	1906
155.	Silicone Base Rubber Compound (AE-50D7) to NFL-17-101A-50D7	M/s Aerospace Engineers, Salem	F&F	1919
156.	Silicone Base Rubber Compound AE 4923 to HM4923	M/s Aerospace Engineers, Salem	F&F	1922

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
157.	Polychloroprene Base Rubber Compound AE 31B6	M/s Aerospace Engineers, Salem	F&F	1925
158.	Silver pated Copper filled Fluorosilicone Elastomer material Type C (888F)	M/s S.S.D Polymers, Machilipatnam	HYD	1936
159.	Pure Silver filled Fluorosilicone Elastomer material (999F)	M/s S.S.D Polymers, Machilipatnam	HYD	1937
160.	Fluorocarbon Base Rubber Compound (AE-4920) to HM-4920 Issue A	M/s Aerospace Engineers, Salem	F&F	1946
161.	Fluorocarbon Base Rubber Compound PV-9 (ERP -1305)	M/s Polymer Enterprises, Nasik	KPT	1966
162.	Fluro Carbon Base Rubber Compound PV-7	M/s Polymer Enterprises, Nasik	KPT	1987

**SECTION 20**

**Rubber Components (Seals, 'O' Rings, Tyres etc.)**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Rubber Seals (DTD 458A-Gde A)	3, BRD, Chandigarh	KNP	32
2.	Rubber Seals, Pt. No. 2609C 52-6-1.5, 2619C52-13-2)	3, BRD, Chandigarh	KNP	33
3.	Rubber Seals (126 BG/B 1232W Packing, 128P/AN-6227-8 Packing 'O' ring & 126BG/51-58101-17 Gasket)	3, BRD, Chandigarh	KNP	34
4.	Rubber Seals (63 types)	3, BRD, Chandigarh	KNP	50
5.	Rubber Seals-IPN Seals & IPN Starter System	M/s Ailga Rubber Works, Kanpur	KNP	51
6.	Rubber Seals-Avon Engine	M/s Ailga Rubber Works, Kanpur	KNP	52
7.	Rubber Seals-Swastik Compound Gde-802	3, BRD, Chandigarh	KNP	64
8.	Rubber Seals-Swastik Compound 1046, 1026	3, BRD, Chandigarh	KNP	65
9.	Rubber Seals-Swastik Compound Gde 1007,1026,1046	3, BRD, Chandigarh	KNP	66
10.	Rubber Seals-DRL(M) Compound 'A'	No. 4 BRD Air Force, Kanpur	KNP	67
11.	Rubber Seals	M/s ASI, Pune	KNP	68
12.	Rubber Seals-DRL(M) Compound 'A'	M/s Ailga Rubber Works, Kanpur	KNP	69
13.	Rubber Seals-Swastik compound	3, BRD, Chandigarh	KNP	71
14.	Rubber Seals-DRL(M) Compound 'A'	No. 4 BRD Air Force, Kanpur	KNP	73
15.	Rubber Seals-DRL(M) Compound 'A'	M/s ASI, Pune	KNP	74
16.	Rubber Seals-DRL(M) Compound 'A'	M/s Ailga Rubber Works, Kanpur	KNP	76
17.	Rubber Seals	3, BRD, Chandigarh	KNP	77
18.	Rubber Seals -DRL(M) Compound 'A'	M/s Auto Steel Industries, Pune	KNP	78
19.	Rubber Seals-DRL(M) Compound 'A'	No. 4 BRD Air Force, Kanpur	KNP	79
20.	Rubber Seals-DRL(M) Compound 'A'	M/s Ailga Rubber Works, Kanpur	KNP	80

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
21.	Rubber Seals	M/s Ailga Rubber Works, Kanpur	KNP	83
22.	Rubber Seals	3, BRD, Chandigarh	KNP	85
23.	Rubber Seals	No. 4 BRD Air Force, Kanpur	KNP	86
24.	Rubber Seals	3, BRD, Chandigarh	KNP	93
25.	Rubber Seals	3, BRD, Chandigarh	KNP	94
26.	Rubber Seals	No.4 BRD Air Force Station, Kanpur	KNP	95
27.	Rubber Seals-Swastik Compound 1046 SMA-1026	3, BRD, Chandigarh	KNP	103
28.	Rubber Seals- DRL(M) Compound 'A'	No.4 BRD Air Force Station, Kanpur	KNP	106
29.	Rubber Hose with O.D. of 11mm, I.D. of 4mm	M/s Pioneer Rubber Mills Pvt. Ltd	A/C	110
30.	Rubber Seals-Swastik Compound 802, SMB 1007	3, BRD, Chandigarh	CHD	112
31.	Rubber Seals	M/s Ailga Rubber Works, Kanpur	KNP	113
32.	Rubber Seals (5UE/SPE/10268 Sealing ring)	M/s Ailga Rubber Works, Kanpur	KNP	114
33.	Rubber Seals- DRL(M) Compound 'A'	No.4 BRD Air Force Station, Kanpur	KNP	116
34.	Rubber Seals	3, BRD, Chandigarh	CHD	118
35.	Rubber Seals	3, BRD, Chandigarh	KNP	122
36.	Rubber Seals	3, BRD, Chandigarh	CHD	124
37.	Rubber Seals- DRL(M) Compound 'A'	4 BRD, Kanpur	KNP	125
38.	Rubber Seals	M/s Ailga Rubber Works, Kanpur	KNP	128
39.	Rubber Seals	3, BRD, Chandigarh	CHD	130
40.	Rubber Seals	4 BRD, Kanpur	KNP	131
41.	Rubber Seals	3, BRD, Chandigarh	KNP	132
42.	Rubber Seals	3, BRD, Chandigarh	KNP	137
43.	Rubber Seals	4 BRD, Kanpur	KNP	138

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
44.	Rubber Seals	3, BRD, Chandigarh	CHD	144
45.	Rubber Seals- DRL(M) Compound 'A'	M/s Ailga Rubber Works, Kanpur	KNP	149
46.	Rubber Seals- DRL(M) Compound 'A'	4 BRD, Kanpur	KNP	150
47.	Rubber Seals	3, BRD, Chandigarh	KNP	151
48.	Rubber Seals	3, BRD, Chandigarh	KNP	152
49.	Rubber Seals	4 BRD, Kanpur	KNP	153
50.	Rubber Seals	3, BRD, Chandigarh	KNP	159
51.	Rubber Seals	3, BRD, Chandigarh	KNP	163
52.	Rubber Seals	4 BRD, Kanpur	KNP	164
53.	Rubber Seals	3, BRD, Chandigarh	KNP	166
54.	Rubber Seals	3, BRD, Chandigarh	KNP	168
55.	Rubber Seals	4 BRD, Kanpur	KNP	171
56.	Rubber Seals	3, BRD, Chandigarh	KNP	175
57.	Rubber Seals	3, BRD, Chandigarh	KNP	181
58.	Rubber Seals	3, BRD, Chandigarh	KNP	187
59.	Rubber Seals	4 BRD, Kanpur	KNP	188
60.	Rubber Seals	3, BRD, Chandigarh	KNP	194
61.	Rubber Seals	M/s. Ailga Rubber Works, Kanpur	KNP	198
62.	Rubber Seals	3, BRD, Chandigarh	KNP	202
63.	Rubber Seals	3, BRD, Chandigarh	KNP	206
64.	Rubber Seals	3, BRD, Chandigarh	KNP	215
65.	Rubber Seals	3, BRD, Chandigarh	KNP	220

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
66.	Rubber Seals	3, BRD, Chandigarh	CHD	224
67.	Rubber Seals	4 BRD, Kanpur	KNP	225
68.	Rubber Seals	3, BRD, Chandigarh	CHD	228
69.	Rubber Seals	3, BRD, Chandigarh	KNP	233
70.	Rubber Seals	4 BRD, Kanpur	KNP	234
71.	Rubber Seals	3, BRD, Chandigarh	KNP	236
72.	Rubber Seals	4 BRD, Kanpur	KNP	238
73.	Rubber Seals	3, BRD, Chandigarh	KNP	244
74.	Rubber Seals	3, BRD, Chandigarh	KNP	253
75.	Rubber Seals	4 BRD, Kanpur	KNP	255
76.	Rubber Seals	4 BRD, Kanpur	KNP	256
77.	Rubber Seals	3, BRD, Chandigarh	KNP	265
78.	Rubber Seals	3, BRD, Chandigarh	KNP	268
79.	Rubber Seals	3, BRD, Chandigarh	CHD	288
80.	Rubber Seals	3, BRD, Chandigarh	CHD	295
81.	Rubber Seals	3, BRD, Chandigarh	CHD	299
82.	Rubber Seals	3, BRD, Chandigarh	CHD	301
83.	Rubber Seals	3, BRD, Chandigarh	CHD	307
84.	Rubber Seals	3, BRD, Chandigarh	CHD	321
85.	Rubber Seals	3, BRD, Chandigarh	CHD	416
86.	Rubber Seals	3, BRD, Chandigarh	CHD	471

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
87.	Rubber Seals	3, BRD, Chandigarh	CHD	490
88.	Rubber Pistons of Main & After Burner Fuel pumps	M/s Sujan Industries, Mumbai	KPT	555
89.	Rubber Sealing Ring Pt. No.2619C52-12-2G	M/s Veekay Rubber Products, Mumbai	KPT	563
90.	Corrugated Branch Pipe Pt. No.0257427 for R11F Series, Pt.No.1655001 for R25 Series	M/s Specialty Elastomers, Mumbai	KPT	576
91.	Rubber Sealing Ring Pt.No.1650165	M/s Veekay Rubber Products, Mumbai	KPT	585
92.	Sealing Ring 2262A-168-2L	M/s Sujan Industries, Mumbai	KPT	600
93.	Cup Seal Pt. No. ACO 8845/LDI	M/s HAL, Lucknow	LKO	604
94.	Rubber Gasket & Sealing Rings	M/s Veekay Rubber Products, Mumbai	KPT	652
95.	Rubber Sealing Rings	M/s Sujan Industries, Mumbai	KPT	653
96.	'O' Rings (4 Parts)(Pt.No.902004009-304...)	M/s HAL, Lucknow	LKO	655
97.	Sealing rings / Glands	CISC, Kanpur	KNP	658
98.	'O' Rings Pt.No. 902019003-304	M/s HAL, Lucknow	LKO	686
99.	Rubber Sealing Rings (VITON-1305) K400-149A	M/s HAL, Koraput	KPT	695
100.	Rubber Sealing Rings (SEN-1001) – 6 Types (Pt.No. 2609C52-10-2,....)	M/s Veekay Rubber Products, Mumbai	KPT	696
101.	Rubber Sealing Rings (SEN-1001) – 6 Types (Pt.No. 2609C52-32-2.5,....)	M/s Sujan Industries, Mumbai	KPT	697
102.	Hub Seal Pt.No.N377-4004-0011 (from Rubber SPN-6)	M/s Polymer Enterprises, Nasik	NSK	708
103.	Rubber Sealing Rings (VITON 1305)	M/s Veekay Rubber Products, Mumbai	KPT	709
104.	Rubber Sealing Rings (SEN 1001) – 7 Types (Pt.No.2262A-21-2,...)	M/s Sujan Industries, Mumbai	KPT	710
105.	Rubber Sealing Rings (SEN-1001) - 3 Types (Pt.No.2262A-12-2, ...)	M/s Veekay Rubber Products, Mumbai	KPT	711



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
106.	Rubber Sealing Rings (VKS-2002) Pt.No.2266A-17-2, 22661-19-2	M/s Veekay Rubber Products, Mumbai	KPT	712
107.	Hub-Seal Pt No.N377-4004-008 from Rubber SPN-6	M/s Polymer Enterprises, Nasik	NSK	723
108.	Rubber sealing Rings -4 Types	M/s Sujan Industries, Mumbai	KPT	807
109.	Sealing Rings -5 Types from SEN-1001	M/s Sujan Industries, Mumbai	KPT	815
110.	Sealing Rings -3 Types from SEN-1001	M/s Veekay Rubber Products, Mumbai	KPT	816
111.	Silicone Gasket Pt No.AΦT-306-001 from RC VKS-2004	M/s Veekay Rubber Products, Mumbai	KPT	817
112.	Rubber Sealing Rings 3 Types from VITON-1305	M/s Veekay Rubber Products, Mumbai	KPT	818
113.	Rubber Sealing Rings Pt. (a) to (o) from R.C VITON-1305	M/s Sujan Industries, Mumbai	KPT	819
114.	Rubber Sealing Rings Pt. Nos.(a) to (s) from SEN-1001	M/s Sujan Industries, Mumbai	KPT	820
115.	Rubber Sealing Rings Pt. No.I to VI from Viton-1305	M/s Sujan Industries, Mumbai	KPT	821
116.	Rubber Sealing Rings Pt. No.I to VI from Viton-1305	M/s Veekay Rubber Products, Mumbai	KPT	822
117.	Rubber Sealing Rings 15 Types from SEN-1001	M/s Veekay Rubber Products, Mumbai	KPT	823
118.	Rubber Sealing Rings 3 Types from Viton-1305	M/s Sujan Industries, Mumbai	KPT	824
119.	Rubber Sealing Rings 6 Types from SEN-1001	M/s Veekay Rubber Products, Mumbai	KPT	825
120.	Rubber Sealing Rings from SEN-1001	M/s Veekay Rubber Products, Mumbai	KPT	826
121.	Rubber Sealing Rings from SEN-1001	M/s Sujan Industries, Mumbai	KPT	827
122.	Rubber Sealing Rings 4 Types from SEN-1001	M/s Sujan Industries, Mumbai	KPT	828
123.	Rubber Sealing Rings 3 Types from SEN-1001	M/s Veekay Rubber Products Mumbai	KPT	843
124.	Rubber Sealing Rings 3 Types from SEN-1001	M/s Sujan Industries, Mumbai	KPT	844
125.	Rubber Sealing Rings Pt. No. DSTN-44-076	M/s Veekay Rubber Products, Mumbai	KPT	848
126.	Rubber Sealing Rings 12 Types From SEN-1001	M/s Sujan Industries, Mumbai	KPT	849
127.	Rubber Sealing Ring 1 Type From SEN-1001	M/s Sujan Industries, Mumbai	KPT	850
128.	Rubber Sealing Rings 11 Types From Polysil-01	M/s Polymer Enterprises, Nasik	KPT	851

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
129.	Rubber Sealing Rings 14 Types From Polysil-02	M/s Polymer Enterprises, Nasik	KPT	852
130.	Rubber Pistons 2 Types from R.C Viton-1216	M/s Sujan Industries, Mumbai	KPT	857
131.	Rubber Sealing Rings 7 Types From BP-1	M/s HAL, Lucknow	LKO	863
132.	Rubber Seals 2 Types from BP-1305	M/s HAL, Lucknow	LKO	866
133.	Nitrile Base Rubber Seals-6 Types From BP-1	M/s HAL, Lucknow	LKO	875
134.	Corrugated Branch Pipes from SEN-V-500	M/s Sujan Industries, Mumbai	KPT	877
135.	Fluorocarbon base Rubber seals 2 Types from Viton 1305	M/s HAL Lucknow Division, Lucknow	LKO	879
136.	Rubber Sealing Rings 2 Types from Nitrile base R.C. NPE-3	M/s Polymer Enterprises, Nasik	KPT	881
137.	Nitrile base Rubber Seals 5 Types from BP-1	M/s BP Engineers Pvt Ltd, Lucknow	LKO	888
138.	Rubber Sealing Rings 2 Types from SEN-1001	M/s Sujan Industries, Mumbai	KPT	915
139.	Rubber Sealing Rings 2 Types from PV-1-(Fluorocarbon base)	M/s Polymer Enterprises, Nasik	KPT	932
140.	Rubber Sealing Rings 6 Types From PV-1	M/s Polymer Enterprises, Nasik	KPT	933
141.	Rubber Sealing Ring From NPE-3 R.C.	M/s Polymer Enterprises, Nasik	KPT	934
142.	Rubber Sealing Rings 24 Types from NPE-3 Nitrile base	M/s Polymer Enterprises, Nasik	KPT	939
143.	Rubber Sealing Rings 33 Types from PV-1 Fluorocarbon base	M/s Polymer Enterprises, Nasik	KPT	940
144.	Rubber Sealing Rings 2 Types From Polysil-2	M/s Polymer Enterprises, Nasik	KPT	941
145.	Rubber Sealing Rings 2 Types From NPE-3	M/s Polymer Enterprises, Nasik	KPT	942
146.	Rubber Sealing Rings 2 Types of PV-1	M/s Polymer Enterprises, Nasik	KPT	944
147.	Rubber Sealing Rings 14 Types From NPE-1	M/s Polymer Enterprises, Nasik	KPT	947
148.	Rubber gasket from NPE-3	M/s HAL, Koraput Division, Sunabeda	KPT	948
149.	Rubber Sealing Rings 6Types from SEN-1001	M/s Sujan Industries, Mumbai	KPT	955
150.	Rubber Sealing Rings 3 Types From Viton 1305	M/s Sujan Industries, Mumbai	KPT	956
151.	Rubber Sealing Ring 2609-C5214-15 of SEN -1001	M/s Sujan Industries, Mumbai	KPT	957

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
152.	Rubber Sealing Ring 5125A-8-2 of NPE-3	M/s Polymer Enterprises, Nasik	KPT	958
153.	Rubber Gasket K-IND-284 of Polysil-2	M/s Polymer Enterprises, Nasik	KPT	959
154.	Rubber Sealing Ring of NPE-3 Pt No. 0257623	M/s Polymer Enterprises, Nasik	KPT	960
155.	Rubber Sealing Rings 7 Types of Viton 1305	M/s Sujan Industries, Mumbai	KPT	964
156.	Rubber Sealing Rings 3 Types of PV-1	M/s Polymer Enterprises, Nasik	KPT	965
157.	Rubber Sealing Rings Pt No.025-7107L	M/s Sujan Industries, Mumbai	KPT	966
158.	Rubber Pistons & Sealing Rings of Viton 1316	M/s Sujan Industries, Mumbai	KPT	967
159.	Rubber Sealing Rings 2 Types of PV-1	M/s Polymer Enterprises, Nasik	KPT	974
160.	Rubber Sealing Ring of PV-1	M/s Polymer Enterprises, Nasik	KPT	975
161.	Rubber Sealing Rings 3 Types of PV-1	M/s Polymer Enterprises, Nasik	KPT	976
162.	Rubber Tubes 5 Types of VKS-1338	M/s Veekay Enterprises, Mumbai	KPT	990
163.	Rubber Sealing Rings of Polysil-2	M/s Polymer Enterprises, Nasik	KPT	997
164.	Rubber Sealing Rings of PV-1	M/s Polymer Enterprises, Nasik	KPT	998
165.	Rubber Sealing Rings 17 Types of BP-V-50	M/s BP Engineers, Lucknow	LKO	1003
166.	Rubber Sealing Rings 24 Types of BP-V-50	M/s BP Engineers, Lucknow	LKO	1004
167.	Gaskets 5 Types of VITON 1316	M/s Sujan Industries, Mumbai	KPT	1023
168.	Rubber Sealing Rings 60 Types of VITON-1305	M/s Sujan Industries, Mumbai	KPT	1024
169.	Rubber Sealing Rings and gaskets-14 Types	M/s Polymer Enterprises, Nasik	KPT	1028
170.	Rubber Sealing Rings 5 Types of BP-V-50	M/s BP Engineers, Lucknow	LKO	1030
171.	Rubber Sealing Rings 7 Types of SEN-1683	M/s Sujan Industries, Mumbai	KPT	1036
172.	Rubber Sealing Rings 14 Types of BP-12	M/s BP Engineers, Lucknow	LKO	1040
173.	Rubber Sealing Rings 3 Types of PV-1	M/s Polymer Enterprises, Nasik	KPT	1056
174.	Rubber Gaskets of Polysil-4	M/s Polymer Enterprises, Nasik	KPT	1059

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
175.	Rubber 'O' Rings 40 Types of BP-V-50	M/s B.P Engineers, Lucknow	LKO	1071
176.	Neoprene base rubber bush Pt. No.201P656H3000203/H	M/s HAL, F&F, Bengaluru	F&F	1264
177.	Rubber Sealing Rings- 2 Types made of Haltrile -19	M/s HAL, F&F, Bengaluru	F&F	1340
178.	Gland Seal Pt No. N8K-037-091	M/s Vako Seals, Mumbai	NSK	1349
179.	Cup seal Pt No. 11 BRD/ISC/M/4026.00	M/s Vako Seals, Mumbai	NSK	1363
180.	Collar (Rubber Washer) Pt. No. 11 BRD/ISC/4023.00	M/s Vako Seals, Mumbai	NSK	1364
181.	Cup seal Pt No. 11 BRD/ISC/M/4021.00(495A/06A)	M/s Vako Seals, Mumbai	NSK	1365
182.	Rubber Gland Seal Pt. No. 11 BRD/ISC/M/4024.00	M/s Vako Seals, Mumbai	NSK	1371
183.	Rubber 'O' Rings-ThreeTypes (Pt.No. AN6227-35/H, AN6227-41/H,AN6227-43/H)	M/s HAL, F&F, Bengaluru	F&F	1473
184.	Seal Rubber, Pt. No.: SI45 Z/H	M/s HAL, F&F, Bengaluru	F&F	1668
185.	Seal Rubber, Pt. No.: SE45 Z/H	M/s HAL, F&F, Bengaluru	F&F	1669
186.	Nose wheel inner tube size-6.00-4, Pt .No.ARPL-M-039	M/s Agarwal Rubber, Hyderabad	A/C	1730
187.	Aero muscle tube tyre (tube less) Size 355 x 150 – 4PR	M/s MRF Limited, Chennai	H/C	1731
188.	Rubber seal, Pt. No. ACO 22095-1/H	M/s HAL, Overhaul division, Bengaluru	F&F	1756
189.	Metal bonded rubber seal-3 types	Des by: M/s HAL, Lucknow; Dev & Mfd by: M/s B.P Engineers Pvt. Ltd., Lucknow	LKO	1759
190.	Metal bonded rubber seal	Des by: M/s HAL, Lucknow; Dev & Mfd by: M/s B.P Engineers Pvt. Ltd., Lucknow	LKO	1789
191.	Sealing Ring (MI-818-1910-609)	3 BRD, Chandigarh	CHD	1821
192.	O Ring seals & spacer for SARBE-8 Equipment	11 BRD, Nasik	NSK	1824
193.	Rubber 'O' Rings Pt. No. HTE 7300-S13-022/H	D&D by: M/s HAL, Overhaul, Bengaluru; Mfd by: M/s HAL, F&F, Bengaluru	A/C	1832

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
194.	Rubber 'O' Ring, Pt. No. SP900-7/H	D&D by: M/s HAL, Overhaul Division, Bengaluru; Mfd By: M/s HAL, F&F, Bengaluru	A/C	1844
195.	Rubber 'O' Ring, Pt. No. HTE 7300-S13-014/H	D&D by: M/s HAL, Overhaul Division, Bengaluru; Mfd By: M/s HAL, F&F, Bengaluru	A/C	1845
196.	Rubber 'O' Ring Pt. No.GD 1801-8/H	D&D by: M/s HAL, Overhaul Division, Bengaluru; Mfd By: M/s HAL, F&F, Bengaluru	A/C	1850
197.	Rubber 'O' Rings Pt. No. HTE/880/H	M/s. HAL, Overhaul Division, Bengaluru	A/C	1854
198.	Main & Nose Wheel Inner Tube Pt. No. ARL-M-105	M/s. Agarwal Rubber Limited, Hyderabad	H/C	1856
199.	Flurosilicone Hoses - 3 Types i) AE/201C717H0000211 ii) AE/201C717H0000212 iii) AE/201C717H0000213	M/s Aerospace Engineers, Salem	H/C	1865
200.	Sealing rings DAS 2124-29/H & DAS 2124-40/H	D&D by: M/s. HAL, A/c, Bengaluru; Mfd. by: M/s. HAL, F&F, Bengaluru	A/C	1916
201.	'O' Ring Seals	D&D by: 11 BRD, Nasik; Mfd by: M/s Polymer Enterprises, Nasik	NSK	1945

**SECTION 21**  
**Resins, Glues & Adhesives**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Permacel Self Adhesive Tapes - 4 Types	M/s Johnson & Johnson, Mumbai	A/C	2
2.	Resorcinol Resin Glue, RS-216M & Catalyst RXS-8"17"	M/s Allied Resins & Chemicals, Kolkata	A/C	16
3.	Araldite / Redux Softner	M/s HAL, A/C, Bengaluru	A/C	100
4.	Protective Fluid Protoseal LX.IS	M/s Protochem Inds., Mumbai	A/C	115
5.	Adhesive CRRP-150	DRL(M), Kanpur	NSK	146
6.	Glue-CLR-33.5	DRL(M), Kanpur	KNP	165
7.	Adhesive CR-RP-150	M/s Ailga Rubber Works, Kanpur	NSK	276
8.	Nitrocellulose Glue	M/s Addisons Paints, Chennai	NSK	344
9.	Primer Self Sealing-82	DMSRDE, Kanpur	KNP	366
10.	Flux Grade AF-4a (SL)	M/s HAL, Nasik	NSK	373
11.	Epoxy Resin ATA-6 & Hardner-758	M/s Dr. Beck & Co., Pune	NSK	403
12.	Glue Hycatrol Cement NBR-RP-50 Part A & B	DMSRDE, Kanpur	NSK	409
13.	ISRO-PN-1005 TopCoat Material for Fuel Tanks	M/s HAL, Nasik	NSK	443
14.	Polysulphide Sealant RDL-934	M/s Asian Paints, Mumbai	A/C	445
15.	Glue ISRO-PN-15 ( Grade Glue VKR-15 )	M/s HAL, Nasik	NSK	475
16.	Glue ISRO-PN-6-18 (Grade Glue KP-6-18)	M/s HAL, Nasik	NSK	476
17.	Glue ISRO-PN-32-2 (Grade Glue BK-32-2)	M/s HAL, Nasik	NSK	477
18.	ISRO-EP-I (Grade Carbinol Glue)	M/s HAL, Nasik	NSK	478
19.	ISRO-EP-2 (Grade Glue BF-2)	M/s HAL, Nasik	NSK	479
20.	ISRO-EP4 (Grade USSR Glue L-4)	M/s HAL, Nasik	NSK	480
21.	ISRO-EP40 (Resin for USSR Glue L-4)	M/s HAL, Nasik	NSK	481



22.	ISRO-NR-7 (Grade Glue BKP-7)	M/s HAL, Nasik	NSK	482
23.	ISRO-NC-20 (Grade Nitro Glue AK-20)	M/s HAL, Nasik	NSK	483
24.	Polysulphide Sealant RDL - 840B	M/s Hindustan Minerals Products, Mumbai	A/C	500
25.	Indigenous Glue K-300-61(i)	M/s HAL, Koraput	KPT	645
26.	ISRO-PN-4-18B (Modified I) (Grade Glue VI-4-18b)	M/s HAL, Nasik	NSK	660
27.	Adhesive HAL-NK-VKR-16	M/s HAL, Nasik	NSK	661
28.	Glue SL-VKT-2	M/s HAL, Nasik	NSK	662
29.	Adhesive CR-RP-15	M/s HAL, Nasik	NSK	684
30.	Sealant Anabond 673(Orange)	M/s Anabond Pvt Ltd, Chennai	KPT	735
31.	Polysulphide Sealing Compound RDL-840	M/s Choksey Chemicals, Mumbai	NSK	814
32.	Thread Locker Grade Fevicol ANR-136	M/s Pidilite Industries Ltd, Mumbai	KPT	930
33.	Silicon Sealant DMS-IV	M/s DMSRDE, DRDO, Kanpur	KPT	989
34.	High Temp Lubricating Coating KC-103	M/s HAL Koraput Division, Sunabeda	KPT	1027
35.	Resin Lord 305-1 & Hardener Lord 305-2	M/s Lord India Chemicals, Nasik	NSK	1094
36.	Adhesive-SL-VK-3 for MiG-21 & MiG-27 A/c	M/s HAL, Nasik	NSK	1230
37.	Glue Mavicoat-2	M/s Narendra Udyog, Nasik	NSK	1258
38.	Polysulphide Sealant Pt. No.Techseal RDL 214-S	M/s Choksey Chemicals, Mumbai	F&F	1842



**SECTION 22**  
**Parachutes & Arresters**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	Brake Parachute for S-22 A/c	ADRDE, Agra Cantt.	A/C	91
2.	Brake Parachute PT -21 UK For MiG-21 A/c	ADRDE, Agra Cantt.	A/C	111
3.	Brake Parachute MK IV for GNAT A/c	ADRDE, Agra Cantt.	A/C	133
4.	Brake Parachute For HF-24 MK1 / Hunter A/c	ADRDE, Agra Cantt.	A/C	148
5.	Shackle 15D/721 For Brake Parachute for Hunter/ HF24 Mk-1A/c	ADRDE, Agra Cantt.	A/C	154
6.	Parachute -Back Type For Rohini Glider	ADRDE, Agra Cantt.	A/C	195
7.	27L /3502 Drogue Withdrawal Line (Ind)	ADRDE, Agra Cantt.	A/C	277
8.	Brake Parachute for Jaguar A/c	ADRDE, Agra Cantt.	A/C	513
9.	Drogue Withdrawal Line (27L/2597) (MBEU-23008) for Hunter A/c	ADRDE, Agra Cantt.	A/C	625
10.	Multiple Element Net Assembly Type 30	ADRDE, Agra Cantt.	A/C	651
11.	Brake Parachute Type-24 for Vijay/Rakshak A/c (MiG-23)	ADRDE, Agra Cantt.	NSK	706
12.	Brake Parachute System for GURUD (MiG 25) A/c	ADRDE, Agra Cantt.	NSK	707
13.	Parachute Seat Type MK-10	ADRDE, Agra Cantt.	A/C	727
14.	Brake Parachute Mirage-2000 A/c	ADRDE, Agra Cantt.	A/C	757
15.	Brake Parachute (Nylon) Pt.No.ADRDE/1235 for MiG 29 A/c	ADRDE, Agra Cantt.	NSK	1233
16.	Pilot Parachute BMK-41 for Kiran A/c	M/s OPF, Kanpur	KNP	1866
17.	Pilot Parachute for Jaguar A/c	ADRDE, Agra & M/s OPF, Kanpur	KNP	1868
18.	Pilot Parachute PSH-3,4,& 5	ADRDE, Agra & OPF, Kanpur	KNP	1869
19.	Pilot Parachute PSU-36	ADRDE, Agra & OPF, Kanpur	KNP	1870

20.	Pilot Parachute Assembly for Mirage 2000 & Sea Harrier A/c	ADRDE, Agra & OPF, Kanpur	KNP	1871
21.	Brake Parachute for SU – 30 MKI Aircraft	ADRDE, Agra & OPF, Kanpur	KNP	1884
22.	Aircraft Arrestor Barrier system for Su-30 A/c (40 ton class)	D&D by: ADRDE, Agra; Mfd by: M/s John Galt International, Mumbai	KNP	1898
23.	Parachute System (Fixed Wing) for AT1ME Torpedo	D&D by: Naval Armament Inspectorate, Armapur; Mfd. By: OPF, Kanpur	KNP	1907

**SECTION 23**  
**Seat & Safety**

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1	Cotton Duck KHAKI Water Repellant Fabric	M/s Buckingham & Carnatic Co. Ltd., Chennai	A/C	13
2	Oxygen Reducer Pt. No. 330200000	M/s HAL Lucknow	LKO	538
3	Cushion Head Rest Pt. No. 226GT/1516-595	No.5 BRD, Suler Tamil Nadu	A/C	123
4	Single Head Fire Extinguisher Bottle (Type 12A)	M/s HAL (A/C), Bengaluru	A/C	141
5	Passenger Seat Belt Assembly	M/s Bond Safety Belts, Mumbai	KNP	174
6	Seat Belt Assembly. No. HA-7503-GA	M/s Engg Devices & Controls Pvt. Ltd, Delhi	KNP	189
7	Anti "G" Suit-ABEU MK-I (Stores Ref: 322/172 To 183).	M/s Bengal Water Proof Works Ltd, Kolkatta	A/C	208
8	Helmet Flying Outer Protective ABEU Mk-II	M/s Praga Industries Pvt. Ltd., Coimbatore	A/C	209
9	Gloves Flying Mk II (Stores Ref: 322C)	M/s Tradex Corporation, Chennai	A/C	216
10	Survival Pack of H4HA Ejection Seat For KIRAN A/c	M/s HAL, A/C, Bengaluru	A/C	217
11	Jacket to House Sarbe Assy. Mk I	M/s Bengal Water Proof, Kolkata	A/C	260
12	Quick Release Coupling For Oxygen Mask for ISKRA A/c	M/s Flyyat Pvt Ltd. Bengaluru	A/C	311
13	Oxygen Hose for ISKRA A/c	M/s Bengal Water Proof, Kolkata	A/C	312
14	Protective Helmet For Parachute Jumping Instructors	M/s Fibreglas Reinforced Plastics, Bengaluru	A/C	326
15	Anti "G" Suit Mk-II (Cutaway Type)	M/s Bengal Water Proof, Kolkata	A/C	349
16	Pressure Breathing Oxygen Mask MK-I & MK-II (Regular) for Kiran A/c & (Modified) for HPT-32 A/c	M/s Murali Engg. & Press Metals, Bengaluru	A/C	351
18	Non Ejection Locking Piece to Drg PRG-01-09	M/s Southern Electronics(Bangalore) Pvt. Ltd., Bengaluru	A/C	459
19	Adapter Anti - "G" Mk III	M/s Nigoka Engg. Works Pvt. Ltd, Bengaluru	A/C	463

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
20	Garter leg Restraint MK-II	M/s Bengal Water Proof, Kolkata	A/C	494
21	Jacket for Man Mounted Oxygen Regulator	M/s Bengal Water Proof, Kolkata	A/C	496
22	PSP Lowering Line for use on Martin Baker MK-H4-HA for Kiran Ejection Seat	ADRDE, Agra Cantt.	A/C	528
23	PSP Lowering line, Pt.No.327/ADRDE/3186 for Kiran A/c	M/s HAL,Overhaul Division, Bangalore	A/C	656
24	Integrated Helmet Drg. No. IH-00-00	M/s Concord Arai Pvt. Ltd., Chennai	A/C	676
25	Integrated Helmet Drg.No. IH-00-00	M/s Praga Industries, Coimbatore	A/C	677
26	PSP Lowering Line Pt. No. MBEU-3002-DP-IND	ADRDE, Agra Cant	A/C	680
27	Safety Belt for Islander A/c Drg.No. ADRDE/1042(C)	ADRDE, Agra Cant	A/C	681
28	Inflating Equipment Pt.No. MI-SSIE-44 for Single Seater Life Raft	M/s Meridian Inflatable, Mumbai	A/C	722
29	Operating Head Assy. for GMS CO <sub>2</sub> Cylinder Pt.No.6 (IND)/1624	DEBEL, Bengaluru	A/C	728
30	Extender Strap Pt.No.327C/ADRDE/MBEU-51480	ARDE, Agra Cantt, Agra	A/C	799
31	Leather Boots - 4 Types	M/s Unix Instruments, Bengaluru	H/C	870
32	PSN-1 Life Raft Pt. No.327c/PSN-1	M/s Meridian Inflatable, Mumbai	NSK	1093
33	Life Raft Type 4, MEN-L (Without CO <sub>2</sub> Bottle)	M/s Meridian Inflatable, Mumbai	NSK	1125
34	Dinghy Single Seater Type MLAS-01(B) Modified	M/s Meridian Inflatable, Mumbai	NSK	1131
35	10U Life Raft without CO <sub>2</sub> Bottle	M/s Meridian Inflatable, Mumbai	NSK	1145
36	CO <sub>2</sub> Bottle	M/s Meridian Inflatable, Mumbai	NSK	1146
37	Dinghy & Deflation Valve for Single Seater Life raft Type B1,B2,B4	M/s Meridian Inflatable, Mumbai	A/C	1287
38	Aircraft Arrester Barrier System Pt. No. AAS-00-000 (c)	ADRDE, Agra Cant	A/C	1388
39	Lanyard	D&D by: 11 BRD, AF, Nasik; Mfd by: M/s Tanwala & Co, Mumbai	NSK	1439

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
40	Brass Operating Head For Multi Seater Life Raft	M/s Meridian Inflatable, Mumbai	A/C	1480
42	Fire Detection and Warning System (FDWS) Pt. No. SE-FDWS-MK-1, MOD-1	M/s Southern Electronics, Bengaluru	A/C	1513
43	Fire Extinguisher Bottle Pt. No.A1K-I3-7000-000-000	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Rajaji Nagar, Bengaluru	A/C	1545
44	Canopy Severance System (CSS)	Jointly by: ARDE, Pune & HEMRL, Pune	AA	1582
45	Brake Parachute (Hybrid) Pt. No.1.3.01.00 (b)	ADRDE, Agra Cant	A/C	1642
46	10 Men Reversible Life Raft (HELIRAF) Pt. No. MI 1420 A&B	M/s Meridian Inflatable, Mumbai	KNP	1662
47	Leg Restraint Rope (Strap), Pt. No. SUM/3-17343-04	16 BRD AF, Palam, New Delhi	KNP	1671
48	Harness, Pt. No. MBZ/EPS-72	16 BRD AF, Palam, New Delhi	KNP	1681
49	Inflation equipment (modified) for single seater life raft	M/s Meridian Inflatable, Mumbai	A/C	1682
50	Auxiliary Parachute, Pt. No. JAG/MBEU-5972 PA	16 BRD AFS, Palam, New Delhi	KNP	1683
51	Flame Retardant Overall Flying MK-II Pt. No. FRO-R-01-0A to FRO-R-08-0A & FRO-B-01-0A to FRO-B-08-0A	D&D by: DEBEL, Bangalore, Mfd by: Aeronav Industrial Safety Appliances, Noida	A/C	1687
52	Harness for BMK-41 Pilot parachute, Pt. No. 15A/1317	16 BRD AF, Palam, New Delhi	KNP	1689
53	Canopy Severance System (CSS)	Jointly by ARDE, Pune & HEMRL, Pune	AA	1702
54	Upgrade Nato Suit DEB-UN-01-00 to DEB-UN-08-00 (Eight Sizes)	D&D by: DEBEL, Bengaluru, Mfd by: M/s AISA, Noida & M/s Next Millenium, Delhi	A/C	1995
55	FR Gloves MK-I DEB-FRG MK-I-01-00 to DEB-FRG MK-I-14-00 (Fourteen Sizes)	D&D by: DEBEL, Bengaluru, Mfd by: M/s AISA, Noida & M/s AFT Pvt. Ltd, Delhi	A/C	1996
56	Boots Flying B -01-00	D&D by: DEBEL, Bengaluru, Mfd by: M/s AISA, Noida & M/s Liberty Shoes Ltd, Haryana	A/C	1997
57	FR Anti G Suit MK-IV (PU Bladder) 5 Variants	D&D by: DEBEL, Bengaluru, Mfd by: M/s AFT Pvt. Ltd, Delhi	A/C	2000

### SECTION 24

#### Valves

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
1.	High Pressure Valve Type ADE/HPV/I00	M/s Vanaz Engg. P.Ltd., Mumbai	A/C	56
2.	High Pressure Valve Type ADE/HPV/I00/1	M/s Vanaz Engg.P.Ltd., Mumbai	A/C	90
3.	Flow Restrictor Valve Pt. No 100400000	M/s HAL, Accessories Division, Lucknow	LKO	223
4.	Collapse Valve Pt. No 100800 000	M/s HAL, Accessories Division, Lucknow	LKO	231
5.	Non return Valve Pt. No 100201000	M/s HAL, Accessories Division, Lucknow	LKO	262
6.	Non Return Valve Pt. No 104100000	M/s HAL, Accessories Division, Lucknow	LKO	273
7.	Emergency Valve Pt. No.131300000	M/s HAL, Accessories Division, Lucknow	LKO	285
8.	Non Return Valve Pt. No 104000000	M/s HAL, Accessories Division, Lucknow	LKO	286
9.	Non Return Valve. Pt. No 131600000	M/s HAL, Accessories Division, Lucknow	LKO	300
10.	Non Return Valve Pt. No 104200000	M/s HAL, Accessories Division, Lucknow	LKO	304
11.	Electro Hydraulic Valve Pt. No 103100000	M/s HAL, Accessories Division, Lucknow	LKO	305
12.	Non Return Valve Pt. No 126200000	M/s HAL, Accessories Division, Lucknow	LKO	308
13.	Non Return Valve Pt. No 126300000	M/s HAL, Accessories Division, Lucknow	LKO	309
14.	Anti "G" Valve Pt. No 131000000	M/s HAL, Accessories Division, Lucknow	LKO	318
15.	Charging Valve Pt. No 133100000	M/s HAL, Accessories Division, Lucknow	LKO	320
16.	Charging Valve Pt. No 133200000	M/s HAL, Accessories Division, Lucknow	LKO	323
17.	Relief Valve Pt. No 103500000	M/s HAL, Accessories Division, Lucknow	LKO	331
18.	Quick Disconnecting Valve Pt. No 104300000	M/s HAL, Accessories Division, Lucknow	LKO	333
19.	Quick Disconnecting Valve Pt. No 104400000	M/s HAL, Accessories Division, Lucknow	LKO	334
20.	Non Return Valve Pt. No 131700000	M/s HAL, Accessories Division, Lucknow	LKO	335
21.	On - Off Valve Pt. No 132400000	M/s HAL, Accessories Division, Lucknow	LKO	350

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
22.	Non Return Valve Pt. No 126400000	M/s HAL, Accessories Division, Lucknow	LKO	354
23.	Non Return Valve with T-Piece Pt. No 330600000	M/s HAL, Accessories Division, Lucknow	LKO	357
24.	Electro Hydraulic Valve Pt. No 103200000	M/s HAL, Accessories Division, Lucknow	LKO	365
25.	Electro Hydraulic Valve Pt. No 103400000	M/s HAL, Accessories Division, Lucknow	LKO	369
26.	Solenoid Valve Pt. No 143200000	M/s HAL, Accessories Division, Lucknow	LKO	370
27.	Emergency Valve Pt. No 131200000	M/s HAL, Accessories Division, Lucknow	LKO	376
28.	Emergency Valve Pt. No.131400000	M/s HAL, Accessories Division, Lucknow	LKO	377
29.	Solenoid Valve Pt. No 143300000	M/s HAL, Accessories Division, Lucknow	LKO	404
30.	Oxygen Shut off Valve Pt. No 330100000	M/s HAL, Accessories Division, Lucknow	LKO	405
31.	Electro Pneumatic Valve Pt. No 331100000	M/s HAL, Accessories Division, Lucknow	LKO	410
32.	Solenoid Valve Pt. No 143100000	M/s HAL, Accessories Division, Lucknow	LKO	413
33.	Safety Valve Pt. No 126100000	M/s HAL, Accessories Division, Lucknow	LKO	442
34.	Solenoid Valve Pt. No 143000000	M/s HAL, Accessories Division, Lucknow	LKO	452
35.	1" In line Valve Pt. No 124100000	M/s HAL, Accessories Division, Lucknow	LKO	465
36.	Solenoid Valve Pt. No 143600000	M/s HAL, Accessories Division, Lucknow	LKO	470
37.	Brake Servo Valve Pt. No 132100000	M/s HAL, Accessories Division, Lucknow	LKO	473
38.	Electro Pneumatic Valve Pt. No 132000000	M/s HAL, Accessories Division, Lucknow	LKO	474
39.	Safety & Inwards Relief Valve Pt. No. 124300000	M/s HAL, Accessories Division, Lucknow	LKO	501
40.	Safety & Inwards Relief Valve Pt. No. 124400000	M/s HAL, Accessories Division, Lucknow	LKO	503
41.	Electro Hydraulic Valve Pt. No. 103000000	M/s HAL, Accessories Division, Lucknow	LKO	506
42.	2" In line Valve Pt. No.124200000	M/s HAL, Accessories Division, Lucknow	LKO	510
43.	Balance Cock Pt. No. 101000000	M/s HAL, Accessories Division, Lucknow	LKO	511
44.	Balance Cock Pt. No.101100000	M/s HAL, Accessories Division, Lucknow	LKO	514



Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
45.	Electro Hydraulic Valve Pt: No.103300000	M/s HAL, Accessories Division, Lucknow	LKO	529
46.	Electro Pneumatic Valve Pt. No. 132200000	M/s HAL, Accessories Division, Lucknow	LKO	530
47.	Drain Valve Pt. No.144100000	M/s HAL, Accessories Division, Lucknow	LKO	539
48.	Inward Vent Valve Pt. No 145200000	M/s HAL, Accessories Division, Lucknow	LKO	698
49.	Non Return Valve Pt. No.330800000	M/s HAL, Accessories Division, Lucknow	LKO	783
50.	Pressure Relief Valve Pt.No.1448.00.000	M/s HAL, Accessories Division, Lucknow	LKO	867
51.	Solenoid Valve Pt. No. 1449.00.000	M/s HAL, Accessories Division, Lucknow	LKO	869
52.	Pressure Relief Valve. Pt. No. 107900 000	M/s HAL, Accessories Division, Lucknow	LKO	1317
53.	Valve Air Charging Unit(DP-585) Pt. No.227Q/A-189 Mk-3	D & D by: 5BRD IAF, Mfd by: M/s. Bashi Aerospace Pvt Ltd, Bengaluru	F&F	1360
54.	Non return Valve Pt. No. 1266 00 000	M/s HAL, Accessories Division, Lucknow	LKO	1386
55.	Brake control Valve Pt. No. 1090 00 000	M/s HAL, Accessories Division, Lucknow	LKO	1392
56.	Parking Valve Pt. No.1091 00 000	M/s HAL, Accessories Division, Lucknow	LKO	1394
57.	Non Return Valve (25mm) Pt. No.1271 00 000	M/s HAL, Accessories Division, Lucknow	LKO	1395
58.	Non Return Valve (80mm) Pt. No. 1269 00 000	M/s HAL, Accessories Division, Lucknow	LKO	1440
59.	Ground Connection Pt. No.1270 00 000	M/s HAL, Accessories Division, Lucknow	LKO	1444
60.	Ram Air Valve Pt. No.123400000	M/s HAL, Accessories Division, Lucknow	LKO	1445
61.	Pressure Reducing Valve Pt. No.108600000	M/s HAL, Accessories Division, Lucknow	LKO	1463
62.	Brake Control Valve Pt. No.108500000	M/s HAL, Accessories Division, Lucknow	LKO	1468
63.	11.5 lpm Electric Motor Driven Hydraulic Pump Pt. No.113600000	M/s HAL, Accessories Division, Lucknow	LKO	1469
64.	Pressure Reducing Valve Pt. No. 109200000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by:M/s HAL, Accessories Division, Lucknow	LKO	1502
65.	Cold Air Unit Pt. No. 121300000	M/s HAL, Accessories Division, Lucknow	LKO	1526

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
66.	Non Return Valve (NRV) Dia 20mm Pt. No A1K-I5-1070-000- 001	D&D by: ADA, Bengaluru; Mfd by: M/s CTTC, Orissa	A/C	1544
67.	Non Return Valve (NR) Dia 10mm Pt. No. A1K-I5-1090-000-002	D&D by: ADA, Bengauru; Mfd by: M/s CTTC, Orissa	A/C	1550
68.	Non Return Valve (NRV) Dia 10mm Pt. No.A1K-I4-1090-000-001	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1553
69.	Non Return Valve (NRV) Dia 12mm Pt. No.A1K-I7-1170-000-002	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1554
70.	Charging Valve Pt. No. A1K-I7-1440-000-003	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1555
71.	Non Return Valve (NRV) Dia 6mm Pt. No.A1K-I7-1140-000-003	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1556
72.	Non Return Valve (NRV) Dia 10mm Pt. No.A1K-I7-1160-000-003	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1557
73.	Non Return Valve (NRV) Dia 8mm Pt. No. A1K-I7-1150-000-003	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1558
74.	Non Return Valve (NRV) Dia 16mm Pt. No.A1K-I7-1180-000-003	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1559
75.	Non Return Valve (NRV) Dia 20mm Pt. No.A1K-I7-1190-000-003	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1560
76.	Non Return Valve (NRV) Dia 50mm Pt. No. A1K-I5-1020-000-003	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1561
77.	Inward/ Outward Relief Valve 51.8 kPa, Pt. No. A1K-I5-2040-000-003	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1565

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
78.	Inward/Outward Relief Valve 86 kPa, Pt.No. A1K-I5-2050-000-001	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1567
79.	Hot Air Non Return Valve (NRV) Dia-25mm, Pt. No. A1K-I5-1060-000-002	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1568
80.	Non Return Valve (NRV) Dia 40mm (Fuel), Pt. No. A1K-I5-1080-000-003	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1570
81.	Hydraulic Release Valve (HRV) Pt. No. A1K-I7-1270-000-001	D&D by: ADA, Bengaluru; Mfd by:M/s GTTC, Bengaluru	A/C	1571
82.	Check Valve Dia 40mm, Pt. No.A1K-I5-1089-000-001	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1572
83.	Inward/Outward Relief Valve-15kPa Pt. No A1K-I5-2030-000-002	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1573
84.	Shuttle Valve Dia 8mm Pt. No. A1K-I7-1126-000-000	D&D by: ADA, Bengaluru; Mfd by: M/s GTTC, Bengaluru	A/C	1576
85.	Shuttle Valve Dia 8mm Pt. No. A1K-I7-1125-000-001	D&D by: ADA, Bengaluru; Mfd by:M/s GTTC, Bengaluru	A/C	1580
86.	Shuttle Valve Dia 6mm Pt. No. A1K-I7-1110-000-002	D&D by: ADA, Bengaluru; Mfd by:M/s GTTC, Bengaluru	A/C	1581
87.	2 Inch Non Return Valve Pt. No.324-92031	D&D by: ARDC, M/s HAL, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1583
88.	Water Drain Valve Pt. No. A1K-I5-2100-000-003	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1589
89.	Defuelling Valve Pt. No.A1K-I5-2120-000-002	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1598

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
90.	Condensate Drain Valve Pt. No. A1K-I5-2090-000-003	M/s CTTC, Orissa	A/C	1606
91.	Fuel Drain Valve Pt. No. A1K-I5-2080-000-003	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1611
92.	Motorized De-Pressurization Cock Pt. No.A1K-I5-2220-000-003	D&D by: ADA, Bengaluru; Mfd by:M/s CTTC, Orissa	A/C	1624
93.	Fuel Air Valve Pt. No. M21428	Designed by: M/s HAL Aircraft Division Bengaluru: Dev & Mfd jointly by M/s HAL& M/s Dakshin Udyog, Bengaluru	A/C	1653
94.	Brake Control Valve Pt. No. 1095 00 000	D&D by: M/s HAL, ASERDC, Lucknow; Mfd by:M/s HAL Accessories Division Lucknow	LKO	1654
95.	Ejector Shut Off valve, Pt. No.1236 00 000	M/s Hindustan Aeronautics Limited Lucknow	LKO	1684
96.	Temperature control valve, Pt. No.1235 00 000	D&D by: SERDC, HAL, Lucknow; Mfd by:M/s HAL, Accessories division, Lucknow	LKO	1741
97.	Seal inflation deflation valve, Pt. No.1247 00 000	M/s HAL Accessories Division, Lucknow	LKO	1742
98.	Air valve assembly(Punkah lower)/ Air nozzle Pt.No.AC 2230-EB/H	M/s. Polynex, Bengaluru	A/C	1758
99.	Sequence valve, Pt. No.1152 000 00	M/s ASERDC, HAL, Lucknow	LKO	1760
100.	Low pressure relief valve for LCA Navy	M/s HAL, Accessories Division, Lucknow	LKO	1765
101.	Two position flap valve Pt. No. A1K-I5-2060-000-003	D&D by: ADA, Bengaluru; Mfd by: CTTC, Orissa	A/C	1781
102.	Drain Valve Assembly Pt. No. BEMCO-DRV-000	M/s Bemco Hydraulics Ltd., Belgaum.	H/C	1817
103.	Vent Valve Assembly Pt. No. BEMCO-VNTV-000	M/s Bemco Hydraulics Ltd., Belgaum	H/C	1819
104.	Inward/ Outward Relief Valve (35 kPa) Pt. No.A1K-I5-2041-000-000	D&D by: ADA, Bengaluru; Mfd By: CTTC, Orissa	A/C	1846

Sl. No.	Nomenclature	Name of the Firm (D&D / Mfd)	RCMA	TA No.
105.	Non Return Valve (NRV) Dia 25mm Pt. No.A1K-I5-1050-000-001	D&D by: ADA, Bengaluru; Mfd By: CTTC, Orissa	A/C	1847
106.	Two Position flap Valve (Central Drop Tank) A1K-I5-2180-000-001	D&D by: ADA, Bengaluru; Mfd By: CTTC, Orissa	A/C	1848
107.	Chip Detector with Self Closing Valve Pt. No. ACD-01-GA	M/s. Vita Technology, Bengaluru	H/C	1862
108.	De-Fuelling Valve, Pt. No.1458 00 000	ASERDC, M/s HAL, Lucknow	LKO	1957
109.	Solenoid Valve, Pt. No. IE 1054	M/s Indo Electrosats Pvt. Ltd, Kolar Dist	H/C	1992

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**PART-II.B**  
**Address of TA Holders**

Sl. No.	Firm	TA No.
1.	ACD Communication (P) Ltd. IDA, Phase-1, Cheralapally, Hyderabad-500051	1381, 1437
2.	Addisons Paints & Chemicals Ltd. PB No. 851, Huzur Gardens, Sembiam, Chennai - 600 011	344
3.	AD-Tech System L-45, MIDC, Ambad, Nasik -422 010	1467
4.	Advanced Radio Masts Ltd, Hyderabad-500 007	784
5.	Advani Oerlikon Ltd Lal Bahadur Sastry Marg, Bhandup, Mumbai - 400 073	395
6.	Aeden Aluminum Fabricators Engineering Company, New Delhi	638
7.	Aerial Delivery R&D Establishment, (ADRDE) PB. No.51, Station Road, Agra Cantt, Agra-282001	91, 111, 119, 120, 133, 148, 154, 195, 277, 513, 528, 625, 651, 680, 681, 706, 707, 727, 757, 799, 1233, 1388, 1642, 1868, 1869, 1870, 1871, 1884, 1898
8.	Aeronautical Development Agency (ADA), PB No.1718, Vimanapura Post,	1454, 1455, 1456, 1457, 1478, 1508, 1509, 1510, 1524, 1537, 1545, 1544, 1550, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560,



Sl. No.	Firm	TA No.
	Bengaluru--560017	1561, 1565, 1566, 1567, 1568, 1570, 1571, 1572, 1573, 1576, 1578, 1580, 1581, 1589, 1590, 1591, 1592, 1594, 1597, 1598, 1599, 1600, 1602, 1603, 1606, 1609, 1611, 1624, 1612, 1616, 1620, 1627, 1644, 1645, 1713, 1714, 1763, 1781, 1784, 1800, 1846, 1847, 1848, 1974
9.	ADE, DRDO, Suranjandas Road C V Raman Nagar, Bengaluru - 560093	1507, 1512, 1523, 1569, 1607
10.	Aerospace Engineers The Salem Aero Park, NH-7, Ammapalayam Village, Mallur , Salem – 636 203	1483, 1665, 1672, 1853, 1865, 1882, 1905, 1906, 1919, 1922, 1925, 1946, 1977
11.	Aeronav Industrial Safety Appliances E-24, Sector-VII, Noida, Uttar Pradesh	1687
12.	Agarwal Rubber Ltd. Plot No.C8-C11, IDA, Phase -1, Patancheru, Medak District (A.P), Hyderabad-502 320	1649, 1730, 1856
13.	Aliga Rubber Works 84/8, Fazalganj, Kanpur - 208 012	51, 52, 69, 76, 80, 83, 113, 114, 128, 149, 176, 198, 200, 227, 276, 999, 1260, 1332
14.	Alcobex Metals (P) Ltd. Jodhpur	499
15.	Alligator Design Pvt. Ltd. Bengaluru - 560058	1981

Sl. No.	Firm	TA No.
16.	Allied Electronics Corporation 94, Kansara Chawl, Kalbadevi Road, Mumbai - 400 002	17, 329
17.	Allied Resins & Chemicals Ltd. Hide Road Extension, Kolkatta - 700 027	16
18.	Alpha Design Technologies Pvt. Ltd No.9, Interface Accolade Building, Service Road, HAL 2 <sup>nd</sup> Stage Bengaluru – 560 008	1912
19.	Amphenol Interconnect India Private Limited 61, Keonics electronic city, Hosur Road, Bengaluru-560100	1790, 1990
20.	Amado tools Hyland Industrial Estate 11 <sup>th</sup> Km, Hosur Road, Bommanahalli, Bengaluru – 560 038	1864
21.	Anabond Pvt Ltd. 3A, 3rd Floor, 2 Adyar Bridge Road, Adyar, Chennai - 600 020	735
22.	Ananya Technologies Pvt Ltd., No. 257/A, 2 <sup>nd</sup> B Main Road, Giri Nagar 1st Phase, Bengaluru-560 085	1487, 1492

Sl. No.	Firm	TA No.
23.	Ankit Fasteners Pvt. Ltd. 297, Haragadde Village, Road No. 4, Jigani Industrial Estate, Phase – I, Bengaluru – 560 105	1949
24.	Apollo Computing Lab (P) Ltd. 12-13-197/403-495, Pavani Anasuya Tower, Tarnaka, Hyderabad-500 017	1646,1838
25.	Armament Research & Development Establishment (ARDE), DRDO, Armament Post ,Pashan, Pune-411 021	46, 298, 313, 801, 892, 893, 894, 911, 916, 917, 924, 937, 938, 951, 952, 953, 954, 961, 962, 969, 977, 985, 1247,1460, 1461, 1488, 1582,1702, 1885, 1900
26.	Arun Hosiery Mills, D-16/2. Okhla industrial Area, II Phase, New Delhil - 110 020	172, 270, 665, 683, 730
27.	Aryan Aerospace Fasteners, M-79, MIDC, Ambad, Nasik – 422 010	1956
28.	A.R Chemical Industries 125/18 'V' Block, GovindNagar, Kanpur - 208006	829
29.	Asbestos & Jointing Manufacturing Company (P) Ltd Parsi Panchayat Road. Andheri (E), Mumbai - 400 069	161, 274
30.	Asian Paints (I) Ltd.	242, 243, 445

Sl. No.	Firm	TA No.
	"NIRMAL." 5th Floor, Nariman Point, PB No. 1946, Mumbai - 400 021	
31.	ASTRA Micro Wave Products Ltd, 6-3-639/640, 303,3rd Floor, Golden Edifice Building, Khairabad, Hyderabad - 500004 AP.	1240, 1940, 1980
32.	Assam Carbon Products Ltd. 2, Industrial Development Area, Phase-I, Dist. Medak, Patancheru (AP), 502 319	582, 808
33.	ASTRO OPTICS Pvt Ltd. S/3-Kopole Society, 13th Cross Road, Juhu, Mumbai - 400 049.	1325
34.	ATS Tools 19-2-654, Dood Bowli, Hyderabad - 500264.	1026
35.	Auto Steel Industries Pune-411 032	68, 74, 78
36.	Auto Tec System Private Limited No. 177/6B Arshiraya ornate, Bilekahalli, Banarghatta Road, Bengaluru – 560 076	1757

Sl. No.	Firm	TA No.
37.	Ava Bashi Laboratories 3318, 7th Cross, 13th Main, HAL II Stage, Bengaluru - 560 008	204, 213, 219, 281, 507
38.	AVI OIL India (P) Ltd. C/o IOCL, 608, Surya Kiran Building, 19, Kasturba Gandhi Marg, New Delhi - 110011.	1009, 1010, 1011, 1018, 1019, 1020, 1021, 1022, 1037, 1038, 1042, 1044, 1045, 1046, 1047, 1050, 1060, 1069, 1081, 1082, 1083, 1084, 1085, 1101, 1102, 1104, 1105, 1106, 1107, 1127, 1128, 1133, 1134, 1137, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1218, 1219, 1220, 1242, 1254, 1255, 1272, 1296, 1299, 1300, 1301, 1302, 1303, 1309, 1335, 1345, 1446, 1464, 1471, 1514, 1516, 1679, 1693, 1738, 1787, 1804, 1807, 1808, 1837
39.	AV Alloys Ltd. 355/A, Nandigaon, Patancheru, Medak District, AP - 502300	1118
40.	Avantel Limited Plot No.:16, Sector –III, HUDA Enclave, Madhapur, Hyderabad – 500 081	1873, 1876, 1927, 1938
41.	Avantel Limited Plot No. 47/P, APIIC Industrial Park Vishakapatnam - 531163	1876

Sl. No.	Firm	TA No.
42.	Bashi Aerospace Pvt. Ltd. No. 143, 1 <sup>st</sup> Cross, Industrial Estate, Rajaji Nagar, Bengaluru - 560 010	1360
43.	Basic & Synthetic Chemicals (P) Ltd. 25, East Road PE. No 17003, Kolkatta - 700 032	62
44.	Bangalore Rubber Industries C-26, Industrial Estate, Rajajinagar, Bengaluru - 560044.	981, 982
45.	Dr. Beck & Co (India) Ltd. Pimpri, Pune - 411 018	403
46.	Bemco Hydraulics Limited Khanapur Road, Udyambag , Belgaum – 590 008	1817, 1818, 1819
47.	Bengal Water Proof Works Ltd. 41 Shakespeare Sarani, Kolkatta - 700 071	208, 260, 312, 349, 494, 496,
48.	Best Cotton Ropes Manufacturing Company 47-49, Forbes Street Fort, Mumbai - 400 001	43
49.	Bharat Dynamics Ltd.(BDL) Kanchanbagh, Hyderabad-500 058	1551, 1552, 1948
50.	BPCL, Mumbai Refinery at Mahul	923

Sl. No.	Firm	TA No.
	PB No,1725, Mumbai - 400074	
51.	Bharat Electronics Limited (BEL) Jalahalli, Bengaluru - 560013	38, 97, 240, 931, 1204, 1454, 1455, 1456, 1457, 1507, 1512, 1523, 1563, 1564, 1569, 1607, 1617, 1658, 1797, 1798,1799, 1806, 1888,1974
52.	Bharat Electronics Limited (BEL) Site IV, Sahibabad Industrial Area, Bharat Nagar Post, Ghaziabad – 201 010, UP	1943, 1954
53.	Bharat Electronics Limited (BEL) I.E Nacharam, Hyderabad - 500076	773, 774, 775, 776, 777, 780, 1143, 1144, 1159, 1150, 1161, 1162, 1163, 1164, 1243, 1664
54.	Bharat Electronics Limited (BEL) Plot No.405, Industrial Area, Phase-III Panchkula– 134 113, Haryana	1543, 1772, 1774, 1775, 1777, 1778, 1779, 1899
55.	Bharat Electronics Limited (BEL) NDA Road, Pashan Pune - 411021	1953
56.	BHEL, Heavy Plates & Vessels Plant (earlier: M/s Bharat Heavy Plate & Vessel Ltd.) Vishakapatnam - 500 012 A.P	1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1449, 1776



Sl. No.	Firm	TA No.
57.	Bharat Instruments 67th Mile, NH4, Pune- Bengaluru Road, Satara	126
58.	Bharat Oman Refineries Limited (BORL) Bina – 470 124, District - Sagar, M.P.	1717
59.	Bharat Wire Ropes Ltd. 524/525, The Corporative Centre, Nirmal Lifestyle Mall, LBS.Marg, Mulund (West), Mumbai-400 080	1493, 1494, 1495
60.	Blaze Enterprises J-42, Additional Industrial Area, MIDC, Ambad, Nasik - 422010	1108, 1417, 1418, 1733
61.	Bombay Paints Ltd. BD Patil Marg, Gavampanda, Chembur, Mumbai - 400 074	1257
62.	Borivalli Hosiery Mills Dhanukar Building, 480 Kalbadevi Road, Mumbai - 400002	237
63.	Borosil Glass Works Ltd. Worli, Mumbai - 4000018	226
64.	B.P Engineers Pvt Ltd.	655, 686, 859, 861, 862,888, 913, 914,,1003, 1004, 1030, 1040,

Sl. No.	Firm	TA No.
	G-6, Murli Bhawan, 10A, Ashok Marg, Lucknow - 226001	1071, 1704, 1722, 1759, 1789
65.	Buckingham & Carnatic Co. Ltd. PB No. 1966, Chennai - 400001	13
66.	Centre for Airborne Stores (CABS), DRDO, Yemlur Post, Belur Complex, Bengaluru – 560 037	1943, 1979, 1980, 1981, 1982, 1983,
67.	Centre for Development of Advanced Computing (CDAC), Erstwhile ER & DCI Vellayambalam, Thiruvananthapuram, Kerala-695 033	1491
68.	Central Electrochemical Research Institute (CECRI), Karaikudi, Tamil Nadu-630 006	1547
69.	Central Glass & Ceramic Research Institute (CGCRI) Kolkatta - 700 032	143, 557
70.	Central Indigenous Substitution Cell (CISC) 402, Air force Station, Kanpur	658
71.	Central Tool Room & Training Centre (CTTC) B-36, Chandaka Industrial Area, Bhubaneswar, Orissa- 751024	1544, 1550, 1561, 1565, 1566, 1567, 1568, 1570, 1572, 1573, 1579, 1583, 1589, 1590, 1597, 1598, 1600, 1604, 1605, 1606, 1609, 1611, 1624, 1781, 1846, 1847, 1848
72.	Choksey Chemicals Pvt Ltd,	814, 1109, 1842

Sl. No.	Firm	TA No.
	111, Industrial Area, Sion, Mumbai – 400022	
73.	Chennai Petroleum Corporation Ltd. (CPCL) Manali Refinery, Chennai. <u>Office</u> : 536, Anna Salai, Teynampet, Chennai – 600 018.	1328
74.	CSIR-CSIO, Chandigarh - 160030	1543
75.	Ciba of India Ltd., P.B.No. 479, Atul, Mumbai	6
76.	Cipy Polyurethane (P) Ltd, T-127, MIDC, Bhosari, Pune – 411026	1421
77.	Comptek Computer Systems Pvt. Ltd. 1-2-365/36/4,2nd Floor, Gungan Mahal, Hyderabad - 500 029	1148, 1389
78.	Compupower (P) Ltd. 8-2-350/2/B Road No. 3, Banjara Hills, Hyderabad – 500 034.	725, 811, 1051, 1612, 1815
79.	Compudraw No. 336, 4-A Main Road, 12B Cross, West of Chord Road, 2 <sup>nd</sup> Stage, Mahalakshmpura, Bengaluru-560 086	1627,1763
80.	Concord Arai Pvt. Ltd. Old Mahabalipuram Road, Mettuppam Village, PB. No 5053, Chennai - 600 096	676

Sl. No.	Firm	TA No.
81.	Cornet Technology India Pvt. Ltd., SPIPCOT IT Park, Chennai – 603 103	1979
82.	Continental Device India Ltd. C-120 Naraina Industrial Estate, New Delhi - 110 028	193
83.	CVRDE, DRDO, Avadi, Chennai - 600054	1577, 1628, 1629, 1630, 1631, 1632, 1633
84.	DARE, DRDO, C V Raman Nagar, Bengaluru - 560093	1563, 1564, 1761, 1762, 1797, 1798, 1799, 1806, 1935
85.	Dakshin Udyog, Yamalur Bengaluru – 560 037	1653
86.	Data Patterns (India) P Ltd. New No. 19, Arya Gowder Road, West Mambalam, Chennai-600 033	1524
87.	Datasol Innovative Labs No. 5AC-418, 1 <sup>st</sup> Floor, 5A Cross, 2 <sup>nd</sup> Stage, Kalyan Nagar, HRBR Layout, Banaswadi, Bengaluru-560043	1383, 1748, 1820, 1855
88.	Deccan Smiths Pvt. Ltd. Plot No. 16, Phase – I, IDA, Mallapur, Hyderabad – 500 076	1705, 1728, 1872
89.	Deepti Electronics & Electro Optics Pvt Ltd.	1601, 1880

Sl. No.	Firm	TA No.
	# 3 & 4, 1 <sup>st</sup> Cross, 7 <sup>th</sup> Main, J C Industrial Area, Off. Kanakapura Main Road, Bengaluru-560 062	
90.	Defence Bioengineering & Electromedical Laboratory (DEBEL), DRDO, ADE Campus, C. V Raman Nagar, Bengaluru - 560 093	728, 731, 784, 1687, 1995, 1996, 1997, 2000
91.	Defence Electronics Research Laboratory (DLRL), DRDO, Hyderabad - 500 005	239, 332, 1437, 1984
92.	Defence Materials and Stores R&D Establishment (DMSRDE) G T Road, Kanpur - 208013	358, 366, 390, 409, 989, 1438
93.	Defence Metallurgical Research Laboratory (DMRL) Kanchanbagh, Hyderabad - 500 058	173, 508, 509, 970, 971, 972, 973, 1648
94.	Defence Research Laboratory (Materials) P.B No.320, Kanpur - 208 004	54, 55, 102, 107, 129, 139, 146, 165
95.	Defence Research & Development Laboratory (DRDL), Hyderabad - 500058	1872
96.	Dowell's Electro werke Goregan (East), Mumbai - 400 065	136, 272, 487

Sl. No.	Firm	TA No.
97.	East West System Engg. Pvt. Ltd., 572, ASIAD Village Complex, New Delhi - 110049	734
98.	Eastern Electronics Pvt Ltd. 1-2 Industrial Area, Fridabad, Haryana	35, 39, 40, 53, 61
99.	Elastomeric Engineers The Salem Aeropark, NH-7, Ammapalayam Village, Mallur – 636203	1116,1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1274, 1275, 1276, 1277, 1329, 1333, 1441, 1443, 1474, 1475, 1673, 1910
100.	Electronics Corporation of India Ltd.(ECIL) ECIL Post, Hyderabad - 500 062	360, 378, 493, 1270, 1458, 1511, 1650, 1897, 1939
101.	Electronic Research & Development Centre of India, Unit of ER&DCI Vellayambalam, Thiruvananthapuram - 695033	980
102.	Engineering Devices & Controls Pvt. Ltd. 11-X1 / 3376, Netaji Subash Marg, Delhi - 110 049	178, 189
103.	Essar Oil Ltd, Refinery P.B No. 24, Khambalia -361 305, Jamnagar, Gujarat	1344

Sl. No.	Firm	TA No.
104.	Fasteners Manufacturers Pvt Ltd. 4, Mandi Ville Gardens, Kolkata – 700019	987
105.	Fenner (India) Ltd. Khivraj Complex - 2, 480, Anna Salai, Nandanam, Chennai - 600 035	800
106.	Fiberglas Reinforced Plastics 33 Church Street, Bengaluru - 560 001	326
107.	Filtrum Polymer Pvt. Ltd. 255/1 A/P Village, Hinjawadi, Taluka, Mulshi Dist, Pune - 411 057	1221
108.	Firth (India) Steel Company Ltd. Plot No. F-3, Road 22, PB.No 422, Wagle Industrial Estate, Thane, Mumbai – 400 604	384, 385, 392, 394, 397, 400, 412, 449, 455
109.	Firth (India) Steel Co. Ltd. Nagpur - 440 016	423, 424, 615, 616, 620, 621, 622, 623, 624, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 641, 648, 649, 670, 671, 672, 737
110.	M/s Flu-Tef Industries, Opp. Aarvee Denim, Nr. Balakrishna Textiles Mill Unit-2, In the Lane of Eagle Motors,	918, 1015, 1016, 1017, 1062, 1063, 1064, 1087, 1088, 1124, 1180, 1215, 1851, 1913



Sl. No.	Firm	TA No.
	Narol-Sarkhej Highway, Narol, Ahmedabad-382 405.	
111.	Flyyat Private Limited 8/3 Nandidurg Extension, Bengaluru - 560 046	311
112.	Free India Dry Accumulators Ltd. 36, Chowringhee Road, Kolkata – 700016	41, 42
113.	Gajara Glass Fibre Pvt. Ltd. A/112, Sagar Tech Plaza, Andheri- Kurla Road Sakinaka Junction, Andheri(E), Mumbai - 400 072	1372
114.	Garden Woodroffe Co. (Madras)Pvt. Ltd. Pallavaram, Madras - 600 043	252
115.	Garg Associates Pvt. Ltd. 5, Nai Abadi, Ghaziabad (UP)	9
116.	Gas Turbine Research Establishment (GTRE) Suranjandas Road, Bengaluru - 560 093	101
117.	Graphite India Limited (GIL) Visveshwaraiah Industrial Area, White Field Road, Bengaluru – 560 048	1712, 1734

Sl. No.	Firm	TA No.
118.	Govt. Tool Room & Training Centre (GTTC) Rajaji Nagar Industrial Estate, Bengaluru-560 010	1545, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1571, 1576, 1578, 1580, 1581, 1591, 1592, 1594, 1599, 1602, 1603, 1616, 1620, 1628, 1629, 1630, 1631, 1632, 1633, 1713, 1714
119.	Guwahati Refinery Indian Oil Corporation Ltd., Noonmati Guwahati – 781 020	1237
120.	Gujarat Refinery, Indian Oil Corporation Ltd., P.O. Jawaharnagar, Dist. Vadodara, Gujarat – 391 320	1324
121.	Haldia Refinery Indian Oil Corporation Ltd., P.O. Haldia Oil Refinery -721 606	1253
122.	Hard Castle & Waud Mfg. Co. Ltd. Mumbai - 400 020	246
123.	Haryana State Electronics Development Corporation Ltd. (HSEDC) (HARTRON) IDDC Complex, Staff Road, Ambala Cantt. - 133 001.	1261
124.	Hatim Dielectrics Pvt. Ltd. 90, Ripon Street, Kolkatta – 700016	302

Sl. No.	Firm	TA No.
125.	HBL Power Systems Ltd. Lalgadi Malakpet, Shameerpet Mandal, RangaReddy District, Hyderabad - 500078	605, 726, 1025, 1033, 1041, 1048, 1049, 1070, 1096, 1132, 1485, 1651, 1831
126.	Heatcon Sensors Pvt. Ltd. #155, Near Raghavendra Dhama, Bylakere Silvepura Road, Hesarghatta Hobli, Bengaluru – 560 089	1970, 1971, 1972
127.	High Energy Materils Research Laboratory (HEMRL), DRDO, Armament Post, Satarwadi, Pune – 411021	1702
128.	Henley Cables India Ltd. PB. No-22, Pune - 411 001	12, 15
129.	High Energy Batteries (India) Ltd. Pakkudi Road, Pudukkottai Dt., Mathur-622 515, Tamil Nadu	342, 789, 790, 791, 792, 793, 794, 795, 1039, 1123, 1241, 1281, 1470
130.	HTCC & CPDC, Advanced System Lab (ASL), DRDO, Kanchanbagh Post, Hyderabad - 500058	1407, 1712, 1734, 1800
131.	Hilton Rubber Pvt. Ltd. Rai Sonapat, Haryana	186
132.	Hindustan Aluminum Corp. Renukoot, Mirzapur Dist., U.P - 23127	47, 420

Sl. No.	Firm	TA No.
133.	Hindustan Aeronautics Limited Aircraft Division, HAL (BC), Vimanapura Post, Bengaluru-560017	5, 37, 44, 57, 100, 117, 121, 170, 197, 210, 211, 212, 214, 217, 315, 328, 387, 428, 433, 437, 468, 512, 517, 518, 552, 656, 746, 854, 1077, 1615, 1619, 1638, 1639, 1640, 1641, 1645, 1653, 1785, 1800, 1916
134.	Hindustan Aeronautics Ltd. ARDC & LCA Tejas Division, Bengaluru - 560037	1521, 1541, 1542, 1583, 1615, 1619, 1638, 1639, 1640, 1641, 1659, 1660, 1661, 1801, 1802, 1826, 1827, 1875, 1886, 1901, 1902, 1904, 1909, 1933
135.	Hindustan Aeronautics Limited Helicopter Division, Vimanapura P.O, Bengaluru - 560 017	1091, 1921, 1032
136.	Hindustan Aeronautics Limited Aero Engine Division, C.V Raman Nagar, Bengaluru - 560093	1, 21, 31, 98, 141, 155, 156, 269, 519, 809, 1379, 1380, 1577, 1947, 1960
137.	Hindustan Aeronautics Limited Foundry & Forge Division & Overhaul Division Vimanapura P.O, Bengaluru - 560017	558, 587, 675, 717, 738, 739, 740, 741, 742, 743, 752, 753, 754, 755, 756, 759, 760, 768, 769, 770, 771, 772, 796, 797, 845, 847, 902, 943, 950, 983, 995, 1000, 1001, 1151, 1153, 1154, 1155, 1157, 1206, 1208, 1214, 1216, 1225, 1226, 1227, 1228, 1229, 1238, 1239, 1244, 1245, 1246, 1264, 1340, 1341, 1346, 1348, 1473, 1657, 1668, 1669, 1690, 1706, 1707, 1756, 1832, 1844, 1845, 1850, 1854, 1896, 1908, 1916, 1928, 1931, 1932, 1934

Sl. No.	Firm	TA No.
138.	Hindustan Aeronautics Limited Balanagar, Hyderabad - 500042	134, 145, 158, 162, 251, 319, 325, 336, 359, 368, 374, 375, 388, 402, 429, 431, 432, 434, 435, 458, 460, 462, 464, 466, 502, 523, 535, 548, 567, 602, 606, 607, 643, 644, 650, 654, 666, 674, 679, 798, 810, 900, 979, 993, 996, 1002, 1209, 1234, 1251, 1265, 1266, 1267, 1268, 1289, 1315, 1326, 1331, 1339, 1347, 1423, 1472, 1481, 1490, 1506, 1527, 1586, 1608, 1610, 1613, 1618, 1700, 1701, 1715, 1716, 1736, 1737, 1748, 1751, 1752, 1755, 1768, 1793, 1794, 1795, 1796, 1812, 1825, 1828, 1829, 1830, 1839, 1861, 1883, 1903, 1914, 1915, 1920, 1924, 1930, 1941, 1958, 1959, 1964, 1976, 1978
139.	Hindustan Aeronautics Limited P.O No. 215, Barabanki Road, Lucknow - 226 016	184, 191, 192, 196, 199, 203, 205, 207, 218, 221, 223, 230, 231, 259, 261, 262, 273, 279, 282, 285, 286, 287, 290, 291, 292, 296, 297, 300, 304, 305, 306, 308, 309, 314, 318, 320, 323, 324, 327, 330, 331, 333, 334, 335, 337, 338, 339, 340, 350, 352, 353, 354, 356, 357, 362, 363, 365, 369, 370, 376, 377, 379, 381, 382, 386, 404, 405, 406, 408, 386, 404, 405, 406, 408, 410, 413, 418, 422, 425, 442, 452, 456, 465, 469, 470, 472, 473, 474, 489, 498, 501, 503, 504, 506, 510, 511, 514, 516, 521, 522, 524, 525, 526, 527, 529, 530, 534, 536, 538, 539, 541, 542, 543, 544, 564, 565, 577, 578, 586, 590, 591, 592, 597, 603, 604, 655, 657, 678, 686, 698, 699, 745, 761, 781, 783, 805, 831, 832, 834, 835, 836, 855, 863,

Sl. No.	Firm	TA No.
		864, 865, 866, 867, 868,869, 872, 875, 878, 879, 921, 935, 936, 1065, 1066, 1067, 1130, 1152, 1201, 1213, 1224, 1235, 1269, 1279, 1282, 1283, 1311, 1312, 1313, 1314, 1316, 1317, 1318, 1319, 1320, 1321, 1322,1323. 1334, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1366, 1367, 1368, 1370, 1373, 1374, 1375, 1377,1384, 1385, 1386, 1387, 1390, 1391, 1392, 1393,1394, 1395, 1396, 1397, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1422, 1424, 1425, 1426, 1429, 1430, 1431, 1432, 1435, 1436, 1440, 1444, 1445, 1450, 1451, 1459, 1462, 1463, 1465, 1468, 1469, 1476, 1486, 1497, 1500, 1501, 1502, 1503, 1504, 1505, 1515, 1518, 1519, 1520, 1521, 1525, 1526, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1538, 1539, 1540, 1541, 1542, 1546, 1548, 1549, 1574, 1575, 1584, 1587, 1588, 1621, 1652, 1654, 1674, 1675, 1676, 1677, 1678, 1684, 1688, 1695, 1698, 1699, 1719, 1735, 1741, 1742, 1743, 1744, 1753, 1759, 1760, 1764, 1765, 1766, 1767, 1771, 1780, 1786, 1788, 1789, 1791, 1792, 1809, 1813, 1814, 1863, 1879, 1887, 1942, 1951, 1957, 1961, 1962, 1963, 1965, 1969, 1991, 1998, 1999
140.	Hindustan Aeronautics Limited Ojhar Township, Nasik Division, Nasik - 422 207.	346, 373, 443, 453, 475, 476, 477, 478, 479, 480, 481, 482, 483, 608, 609, 610, 611, 612, 613, 660, 661, 662, 664, 684, 700, 701, 702, 703, 704, 705, 714, 715, 716, 719, 720, 721, 1211, 1217, 1230,

Sl. No.	Firm	TA No.
		1262, 1286, 1466, 1901, 1902, 1904, 1909
141.	Hindustan Aeronautics Limited Kanpur – 208 008	1918
142.	Hindustan Aeronautics Limited Kasaragod, Kerala	1761, 1762, 1935
143.	Hindustan Aeronautics Limited Koraput Division, Sunabeda - 763 002	142, 160, 180, 444, 579, 580, 581, 583. 584, 588, 589, 645, 695, 803, 946, 948, 949, 1027, 1029, 1034, 1336, 1732
144.	Hindustan Aeronautics Limited Korwa Division, Sultanpur Dt, Korwa - 227 412	846, 1337, 1338
145.	Hindustan Aeronautics Limited Avionics Division, P.O. HAL Korwa, Tehsil: Amethi, Uttar Pradesh - 227 412	1614, 1718, 1811, 1849, 1895, 1923, 1944, 1989
146.	Hindustan Mineral Products Co. Ltd. 11, Industrial Area, Sion, Mumbai – 400022	500
147.	Hindustan Mittal Energy Limited (HPCL) Guru Gobind Sigh Refinery, Phulokhari Village, Taluka-Talwandi Sabo, Bathinda – 151 301 ( Panjab)	1840



Sl. No.	Firm	TA No.
148.	Hitech (India) Pvt Ltd. A-11 Electronics Complex, Kushaiguda, ECIL. Post, Hyderabad – 500 762	343
149.	HPCL Petroleum House 17, J Tata Road, Mumbai - 400 020	1058, 1295
150.	Imanes Pvt. Ltd. 94, Swami Vivekananda Road, Erla, Mumbai - 400056	183
151.	Indian Aluminum Company No.1, Middleton Street, Kolkata - 700 071	367, 371
152.	Indian Aluminium Compay Ltd. 39 GT Road. Belurmath– 711202, Dist. Howrah (WB)	347, 491, 492
153.	Indian Aluminium Company Ltd. Alwaye, PB No. 30, Kalamassery, Kerala - 683 104	396, 399, 618, 668, 669, 688, 689, 691
154.	Indian Cables Co. Ltd. Cable House Hadaspur Industrial, Estate, PB.No. 22, Pune - 411 013	180,380, 421,447,533, 593
155.	Indian Institute of Science (IISc) Mallechwaram, Bengaluru - 560 012	63

Sl. No.	Firm	TA No.
156.	Indian Navigation Co (P) Ltd. No. 412, Phase III Udyog Vihar, Gurgaon - 122 016.	264, 1290
157.	Indian Oil Blending Ltd. Plot No D-100, TTC Industrial Area, Kukshet Village, Navi Mumbai - 400 705.	1252, 1259, 1278, 1297, 1298, 1342
158.	Indian Oil Corporation Ltd. G-9 Ali Yavar Jung Marg, Bandra(East), Mumbai - 400 051	303,599, 729, 1043, 1892, 1893, 1894
159.	Panipet Refinery Indian Oil Corporation Ltd. Dist. Panipet, 132140, Haryana	876
160.	Paradip Refinery Indian Oil Corporation Ltd Post Jhimani, Via: Kuajng District Jagatsinghpur, Odisha – 754 141	1985
161.	Bongaigaon Refinery Indian Oil Corporation Ltd. Dhaligaon Post Dist Chirang, Assam – 783 385	1967
162.	Indian Oil Corporation Ltd. (R&D)	1482, 1484, 1892, 1893, 1894

Sl. No.	Firm	TA No.
	Sector-13, Faridabad, Utter Pradesh	
163.	Indian Ordinance Factory (C. Rly) Ambarnath	348
164.	Indian Oxygen Ltd. LB. Shastry Marg, Ghatkopur West, Mumbai - 400 086	441
165.	Indian Rubber Manufacturing Research Association (IRMRA) B-88, Road No. 24/U-2, Wagle Industrial Estate, Thane – 400 604	1747
166.	Indo Electrosats Pvt. Ltd, No. -182, KIADB Narasapura, Industrial Area, Kolar District, Karnataka – 563 133	1992
167.	Indo- Glass Pvt. Ltd. 407, Tardeo Road, Arun Chambers, Mumbai - 400 034.	84
168.	Indo Nippon Chemicals Co. Ltd. Maker Bhavan, No. 218, New Marine Lines, Mumbai - 400 020	235
169.	Indoswe Engineering Pvt. Ltd. 4, MIDC, Bhosari Industrial Estate, Pune - 411 026	687, 690, 692

Sl. No.	Firm	TA No.
170.	Indoswe Engineering Pvt. Ltd. 5, Bund Garden Road, Pune - 411 001.	398
171.	Indus Teqsite Pvt. Ltd. Plot #H9 Fourth Main Road, Sipcot IT Park, Siruseri, Off Rajiv Gandhi Salai (OMR) Chennai – 603 103	1859, 1860
172.	Industrial Foam Pvt. Ltd. 228, Okhla Industrial Estate, New Delhil - 110 020	497
173.	iQ Infotech Ltd., #134/A, 2 <sup>nd</sup> Floor, 3 <sup>rd</sup> Cross, 6 <sup>th</sup> Main Road, 2 <sup>nd</sup> Stage, Industrial Suburb, Yeswantpur, Bengaluru-560022	1656
174.	Integral Systems & Components Pvt Ltd. D388/1, 1 <sup>st</sup> Cross, 1 <sup>st</sup> Stage, Peenya Industrial Estate, Bengaluru - 560058	201, 249, 250, 266, 280, 355, 407, 457, 484, 485, 488, 926, 1160, 1398, 1442, 1477, 1499
175.	Investment & Precision Casting Ltd. Nari Road, Bhavnagar, Gujarat-364 006	1517
176.	ITW Signode India Ltd. Plot No 34-37, Phase II, IDA, APIIC, Pashammylaram, Medak Dist. Medak- 502307, AP	1072, 1073, 1074, 1075, 1076

Sl. No.	Firm	TA No.
177.	J S lamp Industries Plot No. 32, Ward No. 9, Opp PNB, Old Faridabad – 121 002	1637, 1643, 1680, 1685, 1686, 1694, 1696, 1697
178.	Jai Bharat Industries C- 59/4, Okhla Industrial Area, Phase II, New Delhi-11020	667, 885, 886, 897, 898, 899, 1158
179.	Johnson & Johnson of India Ltd., Mumbai - 400026.	2
180.	John Galt International, 1A, Maya Building, 17 <sup>th</sup> Road, Khar (W), Mumbai – 400 052	1898
181.	Kalsi Micro Measurement & Instrumentation Pvt. Ltd. K – 35, Site III, Panki Industrial Area Kanpur - 208022.	1200, 1250
182.	Karnataka Tele Electronics Pvt Ltd No. 38, Bull Temple Road, Basavanagudi, Bengaluru-560 004	1427, 1428
183.	Kirloskar Filters Pvt. Ltd. 13, A, Maharshi karve Marg, Kothrud, Pune – 410029	758
184.	Klip Corporation Kandivilli, 37/D, Govt. Industrial Estate, Mumbai - 400 068	82
185.	Klippon Systems,& Electricals Chatterjee Intl. Center, 3A, Chounrangee Road, 7th Floor, PB-9295,	553

Sl. No.	Firm	TA No.
	Kolkatta - 700 071	
186.	Kochi Refineries Limited, Ernakulam, Kerala	1100
187.	Kohinoor Slide Rules Fabrik Pvt. Ltd. Kohinoor Building, Lanka, Varanasi – 221005	963
188.	K.M Bakalite Industries. SV Road, Anuj Plastic Industrial Estate, Datisar, Mumbai – 400068	92, 284
189.	KMS Suppliers, # 81/30 Kamraj Street Kanchipuram, Ondipudur, Coimbatore – 641 016	1950
190.	Lead Solutions, Kaggadaspura, Bengaluru - 560093	1982
191.	Lord India Chemical Products Pvt Ltd. Plot No. 26, MIDC, Satpur, Nasik - 422007	1092, 1094
192.	Laxtronics Instruments & Controls Pvt. Ltd, K – 16, MIDC, AMBAD, Nasik - 422 010.	1202, 1205, 1248
193.	LNT Electronics 11-7-262, HUDA Colony, Saroornagar, Hyderabad – 500 035	1746
194.	LRDE, DRDO P.B. No.9324, C.V. Raman Nagar, Bengaluru-560 093	1585, 1586

Sl. No.	Firm	TA No.
195.	Lucas Aerospace Ltd. Actuation Divn. Stafford Road, Ford House, England UK	450
196.	Machard Industrial & Engg. Corpn. 250, Kalbadevi Road, Hira Mahal, 2 <sup>nd</sup> Floor, Mumbai - 400 002	389
197.	Mahindra & Mahindra Ltd. (Electronic Divin.) No. 13, Worli Road, Mumbai - 400 018	87
198.	Mahindra Sintered Products Ltd. 146, Bombay - Poona Road, Pimpri, Pune - 411 018	401
199.	Mahindra Ugine Steel Co. Ltd. Bakhtawar, Nariman Point, Mumbai - 400 021	372, 393, 438, 782
200.	Manjira Machine Builders Pvt. Ltd. Patiganapur, Patancheru – 502 320, Medak Dist. AP	1833
201.	Malnad laboratories Pvt. Ltd. Kandivalli (West), Mumbai - 400 067	135
202.	Mangalore Refinery & Petrochemicals Limited Kuthethoor, Post, Via Katipalla, Mangalore – 575 030	1142
203.	Mayfair Electricals	14, 18, 23



Sl. No.	Firm	TA No.
	177, Chitranjan Avenue, PB. No 6725, Mumbai – 700007	
204.	MCSRDC, M/s HAL, HAL Main Factory, Vimanapura Post, Bengaluru – 560 017	1988
205.	MEC Engineers #23, Brindavan Layout, Kaval Byrasandra, Bengaluru-560032.	1358
206.	Mecolam Engineering Pvt. Ltd. Virat Nagar, Off Begur Road, Bommanahalli, Bengaluru – 560 068	1810
207.	Meridian Inflatable (P) Ltd. 103, Marwah Complex, Marwah Estate, Sakinaka, Mumbai - 400 072	722, 1093, 1125, 1131, 1145, 1146, 1287, 1480, 1662, 1682
208.	Merlinhawk Aerospace (P) Ltd. 57/5, 6th Cross, Tank Bund Road, NS Palya BTM Layout, II Stage, Bengaluru-560076	1350
209.	MEL Systems and Services Limited, No. 173, Developed Plot Estate for Electrical, Electronics & Instrument Industries, Perungudi, Chennai – 600 096	1955

Sl. No.	Firm	TA No.
210.	MEC Engineers 23, Brindavan Layout, Kaval, Byrasandra, Bengaluru - 560 032	685, 1078, 1086, 1120
211.	Metal Cloth Products No. 17, Rest House Road, Bengaluru – 560001	10, 19, 36, 48, 140, 167, 190, 310, 515, 540, 575
212.	Metallising Equipment Company Pvt Ltd. 5th Chopani Road, Jodpur - 342 003	802
213.	Metallic Bellows 3/136, East coast Road, Vettuvankeni Injambakkam, Chennai-600 041	1508, 1509, 1510
214.	Microtex, Mysore Thermolectric Pvt Ltd. No.36, 4th Main, 3rd Phase, Peenya Industrial Area, Bengaluru – 560058	1112
215.	Micron Engineers B-10, BEL Industrial Estate, Jalahalli, Bengaluru – 560013	874, 1012, 1013, 1014, 1273, 1479
216.	Microflo Filters (P) Ltd. Survey No. 599 & 600, Kondamadugu Village, Bibinagar (M), Naigonda Dist.-508126, Telangana	1644, 1858

Sl. No.	Firm	TA No.
217.	Mineral Oil Corporation (MOC) D-13, Panki Industrial Area, Kanpur – 208002	858, 912, 1917
218.	Mishra Dhatu Nigam Limited (MIDHANI), P.O Kanchanbagh, Hyderabad - 500 058	322, 495, 545, 546, 556, 566, 614, 619, 626, 639, 640, 642, 646, 682, 693, 694, 713, 732, 733, 762, 766, 903, 904, 905, 906, 907, 908, 909, 910, 922, 927, 928, 929, 991, 992, 1005, 1006, 1007, 1008, 1165, 1166, 1291, 1292, 1293, 1294, 1416, 1453, 1489, 1710, 1782, 1783, 1816, 1926, 1973, 1975
219.	Mistral Solutions Pvt. Ltd., Domlur, Bengaluru - 560 071	1940, 1980
220.	Montex Industries 2/19-20, Mutual Annex, R.S.Marg, Mumbai - 400 001	177
221.	Mosil Lubricants 143 B/8 Sion (West), Mumbai - 400 022.	147, 182, 254
222.	Mothilal Dulichand (P) Ltd. No.20, Industrial Estate, Kanpur-208 012	1378
223.	MRF Limited, PB No.: 2, Sadashivpur, Medak – 502 281	1929
224.	MRF Limited, 124, Greams Roads, Chennai – 600 006	1731
225.	Murali Engineering & Press Metals	351

Sl. No.	Firm	TA No.
	No. 35, 13th Cross, Malleswaram, Bengaluru - 560 003	
226.	Murka Private Limited Kanuga'Bhavan, Kapasia Bazaar, Ahmedabad - 380 002.	241
227.	Mysore Iron & Steel Limited., Bhadravathi	88
228.	National Aerospace Labs (NAL) Kodihalli P.O. ' Air Port Road, Bengaluru - 560 017	554, 1499
229.	National Physical Laboratories (NPL) Hill Side Road, New Delhi-110 012	283, 461
230.	Narvendra Udyog Plot No. A – 40, Sinar Taluka, Coparative Industrial Estate, Limited, Sinar, Nasik Dist - 422 12	1258
231.	Navanidhi Electronics (P) Ltd. Plot No.21, IDA Mallapur, I.E. Nacharam, Hyderabad-500 076	1496
232.	Neotech Consultants & Engg Pvt. Ltd., B13/C, Industrial Area, Banmore, Dist. Morena (M.P) – 476 444.	1035, 1061, 1663, 1857
233.	Neotech Consultants & Engineering Pvt Ltd.	1703

Sl. No.	Firm	TA No.
	No.45, Industrial Area, Birla Nagar, Gwalior – 474 004	
234.	Numaligarh Refineries Pvt Ltd. Pankigrant, Dist Golghat, Assam - 785 699	994
235.	Nikago Engg. Works Pvt. Ltd. 2/3, Kariyanapalya Main Road, Frazer Town, Bengaluru - 560 084	463
236.	NK RF Product & Services Pvt. Ltd. #2, 2 <sup>nd</sup> Cross, Rustom Bagh, Bengaluru – 560 017	1877
237.	No.1 Base Repair Depot, Air force, Chakeri, Kanpur - 208 008	316
238.	No. 3 Base Repair Depot, Air force Station, Chandigarh – 160003	32, 33, 34, 50, 64, 65, 66, 71, 77, 85, 93, 94, 103, 112, 118, 122, 124, 130, 132, 137, 144, 151, 152, 159, 163, 168, 175, 181, 187, 194, 202, 206, 215, 220, 224, 228, 233, 236, 244, 253, 265, 268, 288, 295, 299, 301, 307, 321, 416,471, 490, 1821
239.	No .4 Base Repair Depot Air force Station, Kanpur-208008	67, 73, 79, 86, 95, 106, 116, 125, 131, 138, 150, 153, 164, 171, 188, 225, 234,238, 255, 256
240.	No.5 Base Repair Depot Air Force Station, Sulur, Coimbatore-641401	108, 109, 123,1359, 1360, 1950

Sl. No.	Firm	TA No.
241.	No.11 BRD, Airforce Station Ojhar Township - 422 221, Nasik	1362, 1439, 1663, 1666, 1733, 1824, 1874,1945, 1956
242.	16 BRD AFS, Palam, New Delhi - 110010	1419, 1420, 1671, 1681, 1683, 1689
243.	No. 25 Equipment Depot, Air force, Devlali, Nasik-422501	294
244.	Oil & Natural Gas Corporation (ONGC) Hazira Plant, Surat - 394 510	1271
245.	Pendios Technology Pvt. Ltd. # 328 Akash Deep, Indira Nagar First Stage, Bengaluru-560 038	1634, 1635, 1636
246.	Ordnance Parachute Factory Napier Road, Kanpur – 208 004	1866, 1868, 1869, 1870, 1871, 1884, 1907
247.	Ordnance Factory Dept of Defence Production, Ambajhari, Nagpur - 440 021	617, 724, 736, 751, 984, 1327, 1330, 1729
248.	Ordnance Factory Dum Dum, Jessore Road, Kolkata – 700 028	1900

Sl. No.	Firm	TA No.
249.	Ordnance Factory (Ammunition Factory) Kirkee, Pune - 411 003	45,813, 842,895
250.	Ordnance Factory, Varangaon	179
251.	Ordnance Factory, Dehu Road, Pune - 412 413	920
252.	Oriental Chemicals works 1/1B, Govinda Addy Road, Kolkatta - 700 027.	3, 4, 8
253.	Ordnance Factory Khamaria, Jabalpur - 482 005	812,841,901, 978
254.	Pidlite Industries Ltd. Ramakrishna Mandir Road, Andheri (East), Mumbai - 400 059	930
255.	Pioneer Rubber Mills Pvt. Ltd. Bhandup, Mumbai - 400 078	110
256.	Physical Research Laboratory, Ahemedabad	75
257.	Plastic Products Engineering Co. Near Distt Courts, P.O Narol, Ahmedabad - 382 405	439
258.	Polymer Enterprises E/41, MIDC, Satpur, Nasik - 422 007	659, 663, 708, 723, 764, 837, 838, 839, 840, 851, 852, 881, 932, 933, 934, 939, 940, 941, 942, 944, 945, 947, 958, 959, 960, 965,



Sl. No.	Firm	TA No.
		974, 975, 976, 997, 998, 1028, 1056, 1059, 1110, 1115, 1231, 1236, 1249, 1310, 1376, 1666, 1843, 1945, 1966, 1987
259.	M/s Polynex 7-C, Doddanakundi Industrial Area, Bengaluru – 560 048	1758, 1852, 1911, 1952, 1986
260.	Pradeep Lamp Works Jai Krishna Road, Begapur P.O., Patna-9	26, 27, 28, 29, 30
261.	Prakash Engineering Works Tarun Plastic Compound, Mogra Village, Andheri, Mumbai – 400069	1129
262.	Praga Industries pvt. Ltd. 166. Avanashi Road. PB No. 1620. PO. Peelamedu, Coimbatore - 641 004	104, 209, 677
263.	Premier Auto Cable Ltd. E-32, Scooters Ancillary Estate, Nadaganj, Lucknow-226008	1382
264.	Protochenl Industries 27, Unique Industrial Estate, Dr. Rajendra Prasad Road, Mulan (West), Mumbai - 400 080	115

Sl. No.	Firm	TA No.
265.	Prudent Communication Systems (P) Ltd. No-18, Railway Parallel Road, Kumarapark, Bengaluru - 560 001	1280, 1288
266.	Quality Industries (QI) W- 50, MIDC, Phase- II, Dombivli- 421 204, Dist- Thane, Maharashtra	1210
267.	Radiant Cables, PB.No.1918, B1 Industrial Estate, Sanathnagar, Hyderabad - 500018	889, 890, 891, 1867
268.	Rastriya Metal Industries Ltd. Sir Mathuradas VasANJI Road, J. B. Nagar, Mumbai - 400 059	345
269.	Radiocraft of India (P), Ltd. PB No. 591, 7, Hall Road, Richmond Town, Bengaluru - 560005.	1052
270.	Rampra Steel Industries Pvt, Limited A-11, Shreeram Industrial Estate, G.D Ambedkar Road, Wadala, Mumbai - 400031	1147

Sl. No.	Firm	TA No.
271.	Rane Brakes Linings Ltd. Plot 30, Ambattur Industrial Estate, Chennai – 600 058	1138
272.	Ratnamani Metals & Tubes Ltd. Ratnamani House, 17, Rajmugat Society, Narayanpur Char Rasta, Narayanpura, Ahmedabad - 380 013	1135, 1136
273.	Reliance Petroleum Ltd. Jamnagar Refinery P.O, Motikhavadi, Jamnagar – 361140	880
274.	Resa Company B-8. 9 & 10 Industrial Estate., P. B No 2629 Guindy, Chennai - 600 032	278
275.	ROHM Chemische Fabrik, Kirschenallec, D-64293, Dermstadt, Germany	1111
276.	RPM Engineering Services MIDC, Satpur, Nasik - 422 207	1203, 1874
277.	Shakti Enterprises 125, Industrial Area , Sector-6, Faridabad – 121 006	1822
278.	SAMEER-Centre for Electromagnetics, CIT Campus, 2nd Cross Road, Taramani, Chennai-600113	1122

Sl. No.	Firm	TA No.
279.	SAMEER KOLKATA Centre R&D Laboratory Department of Information Technology, Ministry of Communication & Information Technology, Plot-L-2, Block GP, Sector-V , Salt Lake Electronics Complex, Kolkata – 700 091	1711
280.	Society for Applied Microwave Electronics IIT Campus, Mumbai - 400076.	747, 748, 749, 750
281.	Samtel - HAL Display System Limited Wegmans Business Park, Plot No. 3, Knowledge Park – III Greater Noida – 201 308	1769, 1770
282.	Sanghvi Aerospace Pvt. Ltd. B/h Lalit Warehouse, Narol Sarkhej Highway, Narol, Ahmedabad - 382 405	673, 882, 883, 884, 925, 1031,1068, 1117, 1119, 1126, 1181, 1182, 1207, 1232, 1256, 1361, 1434, 1522, 1691, 1692, 1740, 1841, 1993
283.	Sanghvi Wire Products, 89/7/2, GIDC Estate, Phase-I, Near Torrent Lab, Vatva, Ahmedabad-382445	896
284.	Saru Smelting Pvt. Ltd. Sarunagar. Saradhana, P.B No 5, Meerut (UP)	451

Sl. No.	Firm	TA No.
285.	Satluz Engineering Private Limited 28-B, Industrial Estate, Dada Nagar, Kanpur – 208 022	1670
286.	Servo Electronics 83-84,DSDC Complex, Okhla Phase -2, New Delhi – 110020	446
287.	Shalimar Paints Limited 13, Camac Street, Kolkata - 700 017	383
288.	SIMCO Meters Limited High Energy Battery Plant 109, Nungambakkam High Road, Chennai-600034	342
289.	Southern Electronics Pvt Ltd. 16 A, Peenya Industrial Area, Phase I, Peenya, Bengaluru – 560058	105, 169, 229, 250, 289, 568, 718, 763, 1079, 1095, 1149, 1156, 1369, 1513, 1708, 1709, 1750, 1773
290.	Southfield Paints Ltd. Plot No. 102B to 106, KIADB Industrial Area, 3 <sup>rd</sup> Phase, Malur-Hosur Road, Kolar Dist., Malur – 563130, Karnataka	417, 427, 454, 520, 569, 570, 571, 853, 1720, 1721, 1803, 1878
291.	Sparkonix (India) Ltd. A-82, “H” Block, MIDC Industrial Estate, Pimpri, Pune - 411 018	222, 317

Sl. No.	Firm	TA No.
292.	Spartech Poly Cast 70, Carlisle Place, Stamford, CT 06962, USA	1113
293.	Speciality Elastomers 90, Mistry Industrial Complex, MIDC Cross road, 'A' Andheri-(E), Mumbai - 400 093	531, 532, 560, 576, 788, 806, 856, 871, 1562
294.	Spectra Systems MSR Industrial Estate, Gokula Extension, Bengaluru - 560 054	127, 361, 572
295.	Spectrum Antenna & Avionics Systems (P) Ltd, No – 1/322 A, Karimath Road, Kandanadu Post, Cochin - 682 305	1994
296.	Spectrum Infotech Private Ltd. Komarla Solitaire, 2 <sup>nd</sup> Floor, Plot No. 145/2, Old Madras Road, Nagavara Palya, C V Raman Nagar Bengaluru-560 047	1537, 1593, 1595, 1596
297.	Srinivasa Industrial Chemicals 227-A 3rd Cross, Mahalakshmi Layout, Bengaluru - 560 010	185
298.	Star Paints & Oil Industries Crescent Chambers, 56, Tamarind Street, Mumbai - 400 023	414, 415, 505, 559

Sl. No.	Firm	TA No.
299.	S.K. Engineering Works, No.52, Industrial Estate, SIDCO, Kurichi, Coimbatore-641021	1359
300.	SSD polymers Plot No. C-4, APIE, Machilipatnam – 521 002 (AP)	1667, 1936, 1937
301.	Sujan Industries #77, Mistry Industrial Complex, MIDC Cross Road 'A', Andheri East, Mumbai - 400093	555, 600, 653, 697, 807, 815, 819, 820, 821, 824, 827, 828, 844, 849, 850, 857, 877, 915, 955, 956, 957, 964, 966, 967, 1023, 1024, 1024, 1036, 1284, 1285, 1343, 1447, 1448, 1723, 1724, 1725, 1745
302.	Summit-Tech (P) Ltd. No. 314. Vishal Mansim, 25th Cross, 9th Main BSK-II, Stage, Bengaluru – 560 070.	1304, 1305, 1306, 1307, 1308
303.	Super Inducto Castings Pvt. Ltd. Balanagar, Hyderabad – 500032	765
304.	Surya Aerotech Industries 110 Harsha House, Nayafgarh Road, Commercial Complex Opp, New Delhi-110015	887
305.	Swastik Oil Products Manufacturing Co. Navsari (SOPN), Plot No.251, Village UNN, Khadsupa	1103, 1222



Sl. No.	Firm	TA No.
	Boarding, Taluka Navsari, Gujarat-396433	
306.	System Aids 9th Main Road, 1st Stage, Hennur Banaswadi Layout, Kalyan Nagar, B'luru-560043	1080, 1121
307.	Swastic Rubber Products Ltd. Khadki, Pune-411 003	60, 89, 247. 258, 341
308.	TATA Consultancy Services Limited, SJM Towers, # 18, Seshadri Road, Gandhinagar, Bengaluru – 560 009	1754,1805
309.	Tanwala & Co. 47/49, Dr. V.B.Gandhi Marg Fort, Mumbai – 400 023	1439
310.	Tapadia Engineers & Traders Pvt.Ltd. Raipur, Madhya Pradesh – 492001	391
311.	Thermo Electron LLS (P) Ltd. 101A-101B, Godrej Coliseum, Somaiya Hospital Road, Offestern Express Highway, Sion, Mumbai-400 022	1647

Sl. No.	Firm	TA No.
312.	Taneja Aerospace and Aviation Ltd., Krishnagiri, Belagondapalli-635 114	1438
313.	Toyo Paints Private Limited No. 671/177/2A , Bannerghatta Road, Bengaluru – 560 076	1834, 1835, 1836, 1889, 1890, 1891
314.	Titeflex Europe SA BP73 22 Avenue, Maurice, Chevalier, 77833 Ozoir LA, Ferriere, Cedex, France	1114
315.	Transducer & Applied Products Plot No. 558, IV Phase, Peenya Industrial Area, Bengaluru- 560 058	1626
316.	Tradex Corporation 5, Clemens Road. Chennai - 600 007	216
317.	Tulsi Rubber Products Pvt. Ltd. B-23, H-Block, MIDC, Pimpri, Pune – 411 016.	1263
318.	Turbotech Precision Engineering (P) Ltd. Survey No.8/2, Honnsandra Village, Kosaba Hobli, Nelamangala Taluk, Bengaluru-562123	1622, 1623, 1625

Sl. No.	Firm	TA No.
319.	U Foam B7, Co-op Industrial Estate, Balanagar, Hyderabad – 500057	248, 1097, 1098
320.	Uniflex Cables Ltd. 162, GIDC, Umbergaon 396171, Dist. Valsad, Gujarat	1090
321.	Unirub Techno India Pvt. Ltd. Hinewadi, S No. 255, Hissa No. 1, Tal- Mushi Dist, Pune – 27	1212
322.	Universal Cables Limited P B. No 9, Birla Vihar, Satna (M.P) - 485 005	767
323.	Unix Instruments & Controls Sri Rama Industrial Estate, 5th Main, 15th Cross, RT Nagar, Bengaluru - 560032	870
324.	Ureka Electric Company Briji Road. Pogaria Dist., 24 Parganas, West Bengal	271
325.	Urja Products Pvt. Ltd. Survey No. 53 (Old 194F Near Cow Circle) Inside Pirana Gate, Outer Ring Road, Pirana, Ahmedabad-382427 (Gujarat)	1881

Sl. No.	Firm	TA No.
326.	Vako Seals Pvt. Ltd. ¾ KRDN trust Estate, P.B No. 9083, OFF Aarey Road, Near Pravasi Industrial Estate, Goregaon (E) Mumbai 400 063	1349, 1363, 1364, 1365, 1371
327.	Vanamali Engineering Enterprises 105, Koramangala Layout, I Block, Bengaluru - 560 034	430
328.	Vanaz Engineering Pvt. Ltd. 396, Veer Sarvarkar Marg, Prabadevi, Mumbai - 400 005	56, 90
329.	V. B Electronics & Control No. 1218, 11B Cross, 12 Main, West of Chord Road, II Stage Layout, Bengaluru - 560086	744, 804,860,873,919,1452
330.	Veekay Rubber Products 3, Mistry Industrial Complex, MIDC Cross Road "A" Andheri, Mumbai - 400 093	561, 562, 563, 585, 594, 595, 596, 652, 696, 709, 710, 711, 712, 785, 786, 787,816, 817, 818, 822, 823, 825, 826, 843, 848, 988, 990
331.	Venus Manufacturing Company 3, Shastri Nagar Co-Operative Industrial Estate.Vakola, Santacruz (East), Mumbai - 400 055	232, 833
332.	Verdant Telemetry & Antenna System Pvt. Ltd	1089, 1498, 1968

Sl. No.	Firm	TA No.
	26/411A, Konthuruthy, Thevara P.O, Cochin-682013	
333.	Versabyte Data Systems (P) Ltd. 24/6, 20 <sup>th</sup> Main, 1st 'R' Block, Rajajinagar, Bengaluru - 560010	778, 779, 1139, 1140, 1141, 1223, 1433, 1655, 1726, 1727, 1739, 1979, 1980
334.	Vita Technology Pvt Ltd. 3/1, Annaiah Road, Yelachanahalli, J.P Nagar P.O., Bengaluru-560078	986, 1823, 1862
335.	Western Insulated Cables Ltd. Henley House, Pune-411 001	49, 72, 81
336.	W.G Forge & Allied Industries Ltd. P B No.41, Thane, Mumbai - 400 006	440
337.	W N Rooke & Co. (Red Ditch) Ltd. Vesta Works, Birmingham Road, Redditch Works, B-97-6. DX, England (UK)	598, 1034

**PART- II.C**  
**Cancelled / Withdrawn Type Approvals (Issue 1)**

Sl. No.	Nomenclature	TA No.
1.	Aerolite 306 & GBM-X Hardener	6
2.	Single Coil Circlips & Spring Washers	7
3.	Heavy Duty Terminal Block	11
4.	External Power Plug	20
5.	Terminal Blocks 3 way, 10 way & 20 way	22
6.	ERSA Tag boards 5 way TC 120 (Ind)	24
7.	Instrument Transformer	25
8.	Audio Control System for HS-748 A/C	35
9.	Audio Control System for HS 748 A/C (Signaller Version)	39
10.	Audio Control System for HS 748 A/C Signaller version	40
11.	Audio Control System for HS-748 A/c: Jackbox E/22-01	53
12.	Jetcal Thermocouple Tester	58
13.	Change Over switch type ADE/TS/7020	59
14.	Filter Box 2E/17-01 of Audio Control System	61
15.	Fuse Blocks 12 way & 4 way	92
16.	Spring for Foot Step Assy No. 826/MI/56-7503-20	96
17.	Transistorized Power Pack GEC-260	245
18.	Evostik 528 Adhesive	257
19.	Rubber seals	263
20.	Rubber seals	267

Sl. No.	Nomenclature	TA No.
21.	Terminal Blocks 3,5,10,20,ways	284
22.	Rubber seals	293
23.	Standby Magnetic Compass Type JC2B	264
24.	General Purpose Adhesive ISA-011B(I)	419
25.	Non-Toxic PVC Water Bag-1000ML	436
26.	Personal Rescue Beacon "RADART" Type 5952	448
27.	FRP Heat Shield to DRG .No. PRP-0I-08	467
28.	Audio Stall Warning Unit Type ASU-32	486

### Cancelled / Withdrawn Type Approvals (Issue 2)

Sl. No.	Nomenclature	TA No.
1.	Nycolube 3525	1018
2.	Nycolube 7870	1019
3.	Nycogrease GN-25013	1021
4.	Nycogrease GN-68	1022
5.	Nycolube 21	1037
6.	Hydraunycoil FH-06	1038
7.	Nycogrease GN – 05	1042
8.	Nycogrease GN - 15	1044
9.	Nycogrease GN – GA – 47	1045
10.	Nycogrease GN – 06	1046



Sl. No.	Nomenclature	TA No.
11.	Turbonycoil 3570 Grade - 65	1047
12.	Nyco 65 – Vaseline	1050
13.	Nycolube – 82	1060
14.	Nycogrease GN – 46	1069
15.	Nycogrease GN – 43	1081
16.	Nycogrease GN – 45	1082
17.	Nycogrease GN – 37	1083
18.	Nycogrease GN – 34 GDE 3	1084
19.	Nycogrease GN – 69	1085
20.	Nycogrease GN - 969	1104
21.	Nycolube – 934	1105
22.	Nycolube – 20	1106
23.	Nycoprotec – 03	1107
24.	Nycogrease GN - 44	1127
25.	Nycolube – 149	1128
26.	Nyco 1720 Dimethyl Silicon Fluid	1185
27.	Nycogrease GN – 17	1187
28.	Nycogrease GN HC	1188
29.	Nycogrease GN - 10	1189
30.	Nycolube 11B	1190
31.	Nycolube – 64	1191
32.	Nycoprotec – 348	1192
33.	Turbonycoil 3570 Grade 15W 50	1193

Sl. No.	Nomenclature	TA No.
34.	Turbonycoil 699	1194
35.	Nycoprotec 06	1199
36.	Nycogrease GN – 115	1218
37.	Nycogrease GN – 118	1219
38.	Nycogrease GN – 917	1220
39.	Nycogrease GN – 120	1242
40.	Nycogrease GN – 22	1254
41.	Turbonycoil 310	1255
42.	Nycogrease GN – 56	1272
43.	Turbonycoil 3512	1296
44.	Nycolube 127	1299
45.	Nycoprotec 02	1300
46.	Nycoprotec 8132	1301
47.	Nycolube 58C	1302
48.	Nycogrease GN – 932	1303
49.	Turbonycoil 3516	1309
50.	Nycogrease GN – 4343	1345
51.	Nyco Additive 1	1446
52.	Nycogrease GN – 39	1464
53.	Nycogrease GN – 931	1516
54.	Nycosol 51	1679
55.	Nycosol 21	1693
56.	Nycoprotec 8136	1738

Sl. No.	Nomenclature	TA No.
57.	Nycogrease GN – 60	1787
58.	GTM Seal	1450
59.	Ni Cad Bat Cell 5J/NIV/Ki, Vented 24v,18AH,1Hr	794
60.	Suppressor	804
61.	Auto Transformer, TR-371	919
62.	Auto Transformer, AU-731	744
63.	Metal Ceramic Sectors (Sponge Iron)	664
64.	Silver Oxide A/C Storge Bat N12000 (Mod 11)	900
65.	Multi Output power Supply Pt.No.VDS 1001-068-69	1139
66.	Multi output Power Supply for Eagle ESM	1223
67.	Lithium Thionyl Flouride Chloride Bat Type 94/10/2	968
68.	Ni Cad Bat 24V,16AH TYPE NCSP-B-16060	1070
69.	Ni Cad A/C Bat 24V, 3.5AH TYPE NCSP-B-16060	1096
70.	Nickel-Cadmium Cells	1651
71.	TR Cell Type TX -2	99
72.	Phenolic Molding Powder Hylak HX-5551	157
73.	Oil OSB-4	390
74.	Rubber Compound DRL (M) IPN-3 Butadine Styrene	54
75.	Rubber Compund DRL(M) Compund "A" Nitrile Base	55
76.	Swastics Rubber Compund DRL (M) IPN-3	60
77.	Duel Mix Cement PT A & B	176
78.	Rubber Compound DRLM -A4 Nitrile Base	227
79.	'Power Grip' Brand PVC Tube	275

Sl. No.	Nomenclature	TA No.
80.	Adhesive NBR-RP-75	358
81.	PU Conductive Sealant	1421
82.	Cartidge Ejector Release Unit No.1 MK-III	298
83.	Cartridge ERU ARD-863-1	801
84.	Rear View Mirror	1077
85.	Bracket(Identified By 11 BRD/LCA/AIR/11315)	1749
86.	Magnesium Cast Alloy RZ5-T6 "Canopy Frame"	1346
87.	Summrub-01-603	1304
88.	Summrub-01-580	1305
89.	Summrub-01-601	1306
90.	Summrub-01-602	1307
91.	Al- alloy L-77 Extruded Bars (Forging Stock)	618
92.	Al- alloy AU4GI Extruded Bars (Forging Stock)	668
93.	Al- alloy AU2GN Extruded Bars (Forging Stock)	669
94.	ATF K-50	830
95.	Centralised Warning System For MARUT MK-I A/c	210
96.	Printed Circuit Board(PCB) Pt. No.J1758, J1759, J1760	1053
97.	Printed Circuit Board(PCB) Pt. No.J1808, J1810	1054
98.	Printed Circuit Board(PCB) Pt. No.J1807, J1811	1055
99.	Printed Circuit Board(PCB) Pt. No.J1654,J655,JU1656,J1657	1057
100.	Stall Warning System For HS-748 A/c	105
101.	Tail Plane Powered Flying Control	450
102.	Plunger Springs	1034, 598

### Superseded Type Approvals

Sl. No.	Nomenclature	TA No.	Superseded by
1.	Turbonycoil – 35M	1197	1807
2.	Turbonycoil – 600	1196	1837
3.	Turbonycoil – 210A	1010	1804
4.	Turbonycoil – 13B	1009	1808
5.	Mast Moment Signal Conditioner Unit MMSC-02	1032	1383
6.	Audio Mangement Unit	1613	1958 & 1959

**Type Approval Withheld (kept under abeyance) awaiting Response from Vendor**

Sl. No.	Nomenclature	TA No.
1.	Riveted tray Assembly	1144
2.	Control Panel (KITE) Chetak	1150
3.	Control Panel (Kamov)	1159
4.	Front End Receiver Assembly	1161
5.	TWT Power Supply A05605	1204
6.	TRAP RF Unit of Tempest System	1243
7.	Front End Receiver (FERX)	1664
8.	Cockpit Voice Recorder Comprising MRU-101 & CU-101	493
9.	Solid State Cockpit voice Recorder-Main Recorder U	1270
10.	Speech Secrecy System	1458
11.	LCA IFF Antenna (LC-2001)	747
12.	V.UHF.Antenna (LC-2001)	748
13.	UHF Antenna LC-3001)	749
14.	C Band Antenna (LC-4001)	750
15.	Cryus equipment	332
16.	Signal processor unit	1563
17.	Control & Compatibility Unit	1564
18.	Display Processor & Keyboard Micro Module Unit	1148
19.	Display Processor & KeyBoard Micro Module Unit	1389
20.	Magnetron Type BEL AJ52A	97
21.	Fiber Glass Cloth, Trade Name 'INSUGLASS'	302
22.	VHF Whip Antenna	507

23.	Roller for Mi 8/ Mi 17 Helicopter	638
24.	Passenger Seat Belt Assembly	174



**PART – II.D**

**Address Index of the Head of CEMILAC & RCMA**

Sl.No.	Head of CEMILAC & RCMA	Contacts
1.	Chief Executive (Airworthiness) CEMILAC,DRDO Marathahalli Colony P.O., Bengaluru – 560 0370	080-25230680 Fax: 080-25230856
2.	Group Director (Aircraft) CEMILAC,DRDO Marathahalli Colony P.O., Bengaluru – 560 0370	080-25121100 Fax: 0808-25234368
3.	Group Director (System) CEMILAC,DRDO Marathahalli Colony P.O., Bengaluru – 560 0370	080-25121200 Fax: 080-25230355
4.	Associate Director (Propulsion) CEMILAC,DRDO Marathahalli Colony P.O., Bengaluru – 560 0370	080-25121300 Fax: 080-25234781
5.	Group Director (TC&S) CEMILAC,DRDO Marathahalli Colony P.O., Bengaluru – 560 0370	080-25121400 Fax: 080-25234765
6.	Regional Director RCMA (Aircraft) CEMILAC,DRDO	080-25121150 Fax: 080-25233673

Sl.No.	Head of CEMILAC & RCMA's	Contacts
	Marathahalli Colony P.O., Bengaluru – 560 0370	
7.	Regional Director RCMA (Engine) C V Raman Nagar P.O. Bengaluru – 560 093	0808-25242341 Fax: 080-25240075
8.	Regional Director RCMA (Helicopter) C/o HAL Helicopter Division Bengaluru – 560 017	080-25231533 Fax: 080-25232139
9.	Regional Director RCMA (F&F-FOL) C/o HAL F&F Division Bengaluru – 560 017	080-25236516/22323242 Fax: 080-25236516
10.	Regional Director RCMA (Material) Kanchanbagh P.O. Hyderabad – 500 058	040-24340750 Fax: 040-24341827
11.	Regional Director RCMA ( Hyderabad) C/o HAL Hyderabad Division Hyderabad – 500 042	040-23878605 Fax: 040-23877917
12.	Regional Director RCMA ( Missiles) DDL Campus, Kanchanbagh P.O. Hyderabad – 500 058	040-24341134/29804057 Fax: 040-24341142

Sl.No.	Head of CEMILAC & RCMA's	Contacts
13.	Regional Director RCMA (Nasil) C/o HAL Nasik Division, Ojhar P.O. Nasik – 422 207	02550 275159 Fax: 02550 275912
14.	Regional Director RCMA (Air Armament) Armament P.O. Pashan Pune – 411 012	020-25865006 Fax: 020-25865605
15.	Regional Director RCMA ( Kanpur) C/o HAL (TAD), Chakeri Aerodrome Post Kanpur – 208 008	0522 2453693 Fax: 0512 2400101
16.	Regional Director RCMA ( Lucknow) C/o HAL Lucknow Division Lucknow – 226 013	0522 2350022 Fax: 0522 2350022
17.	Regional Director RCMA ( korwa) C/o HAL Korwa Division Sultanpur – 227 412	05368 255156 Fax: 05368 225068
18.	Regional Director RCMA ( Koraput) C/o HAL Koraput Division Post Box No. 15 Sunabeda – 763 002	06853 221677 Fax: 06853 220382
19.	Regional Director	0172 2637225

Sl.No.	Head of CEMILAC & RCMA's	Contacts
	RCMA ( Chandigarh) C/o 3BRD Air Force, Chandigarh – 160 003	Fax: 0712 2637017

**PART-III.A**  
**Design Approved Firms**

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
1.	M/s. HMT-CNC Systems Division Yeshwanthpur P.O Bengaluru – 560 022.	Design & Development of following Airborne equipment : 1).Low voltage power supplies 2).Microprocessor based embedded control system.	PSU
2.	Central Manufacturing Technology Institute-CMTI, Tumkur Road, Bengaluru- 560 022.	Design work on Leading edge slat actuators (L.E.S.A) for LCA project.	Govt
3.	M/s. HAL – Nasik Division AUR & DC, Ojhar Township, Nasik – 422 207.	Design, Development and Up-gradation of Russian origin military Aircraft-Fixed wing.	PSU
4.	Aeronautical Development Agency- ADA P.B. No. #1718, Vimanapura P.O., Bengaluru – 560 017.	Design of metallic and composite parts. Design, Development of A/c and system up-gradation of fighter aircraft.	Govt
5.	M/s. Astro Optical Industries S-3, Kapole Society, 13th Cross Road, Juhu Scheme Mumbai – 400 049.	Design and fabrication of optical units in electrical & mechanical components for avionics system-New system. Indigenization of optical units in electrical & mechanical components for avionics system-by reverse engineering.	PVT
6.	M/s. HAL – Helicopter Division RWR & DC, Bengaluru – 560 017.	Design, Development and Up-gradation of military Helicopter.	PSU
7.	M/s. Krsany Marine Services Pvt. Ltd., H-Office -306, Punit Chambers Plot No. #C 796, Sector 18, Vashi, Navi Mumbai-400 705	Repair/Overhaul to avionics system/Airborne stores of Naval Aircraft of Russian Aircraft. Indigenization Activities related to Avionic stores of Russian Aircraft origin.	PVT
8.	M/s. Indocen Electronics Systems Pvt. Ltd.,	Design, development of interface units for avionics and	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	403-409, Great Eastern Summit A, Plot No. 56, Sector 15, CBD, Belapur, Mumbai-400 614.	replacement of obsolete PCBs, Reconditioning of PCBs/units of avionics for Western origin Bought out Aircraft.	
9.	DEBEL, DRDO C/o. ADE, C V Raman Nagar, Bengaluru – 560 093.	Design work in airborne life support system, Pilots personal equipment and clothings.	Govt
10.	M/s. Quest White field Road, Mahadevapura Bengaluru – 560 048.	Life evaluation of bought out jet engines for A/c., Design and development of test rigs for the life evaluation of jet engines components. Static & dynamic, analysis of structural components of A/c and engines. Development of software programmes for specific identified aeronautical applications.	PVT
11.	M/s. Dynalog India Ltd., Kailash Vaibhav, Behind Godrej Colony, Parksite, Vikroli(W), Mumbai – 400 079.	Design and development of Airborne sighting system for military aircraft. Design and Development of servo electric unit for Military Aircraft.	PVT
12.	M/s. Aero Design & System Consultants #33, 1st Cross, 5th Main, JP Nagar, 3rd Phase, Bengaluru – 560 078.	Mechanical & Electrical Design/Integration pertaining to Multi Mode Radar and Electronic system installation and testing of AVRO and TU-142 platforms only.	PVT
13.	M/s. Star Wire (India) Ltd., #21/4, Mathur Road, Ballabgarh – 121 004, Haryana	Low alloys steels used in the aeronautical defence applications, All steels used for AGS parts and Non-Critical part of aircraft	PVT
14.	M/s. Sika Interplant Systems Ltd., No.3, Gangadhar Chetty Road, Bengaluru – 560 042.	Design and Development of airborne winch, airborne rescue Hoist /Cargo Hook/ Cargo Sling.	PVT
15.	M/s. Max Aerospace & Aviation Private Ltd.,	Up-gradation/Modification of cockpit voice recorder used in	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Hangar No. C1, Juhu Aerodrome Juhu, Mumbai – 400 054.	military aircraft. Indigenization/development of landing light for MiG-21 Aircraft. Refurbishing AVRO aircraft passenger seats. Retreading of tyres for military transport aircraft. Repair/upgrade of airborne equipments/ components. Servicing, testing & repair of HE used in military aircraft including oil coolers, air oil radiators, cold air units, APU oil coolers, water-air-evaporators, fuel cooled oil coolers and AC cooling packs.	
16.	M/s. Agarwal Rubber Limited., Unit No.201, II Floor, APURUPA PCM complex, 8-2-293/A/A1, Road No.2, Banjarathilla, Hyderabad-500 034.	Design/ Development/ manufacture of tyre inner tubes for Military Aircraft/Helicopters.	PVT
17.	M/s. JK Consultants # 527, 4th Cross, RT Nagar, Block – II, Bengaluru – 560 032.	Modification work on bought out aircraft (includes airframe, mechanical, electrical & aerodynamics).	PVT
18.	M/s. HAL-TAR & DC P. B. #225, Chakeri, Kanpur - 208 008.	Avionics up-gradation, structural C-3 category of modification for piston/turbo trainer Mid Range turbo prop and utility category transport aircraft used for AF/NAVY/ARMY aviation only.	PSU
19.	M/s. Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam – 603 102 ,Tamil Nadu.	Design, development of Oxygen sensor for use in LCA.	Govt
20.	M/s. NAL- Advanced Composite Unit	Design of composite fin, rudder, under carriage door & related	Govt



DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	P.B. No. 1779, Bengaluru – 560 017.	structures.	
21.	M/s. Turbo Tech Precision Engineering (P) Ltd., Survey No. 8/2, Kasaba Hobli, Honnasandra Village, Nelamangala Taluk, Bengaluru Rural dist, - 562 123.	Design & development of undercarriage uplocks for aircraft application.	PVT
22.	M/s. EPE Process Filters & Accumulators Pvt. Ltd., P.B, # 2134, F-39-42, Varalakshmi Complex, M.G. Road Hyderabad – 500 003.	Design & development of hydro-pneumatic accumulators, hydraulic filters and filter elements for aircraft components.	PVT
23.	M/s. CADES Digitech Pvt. Ltd., Achorage, 100/1, Richmond Road, Bengaluru – 560 025.	Design and analysis of aircraft structures and aero-engine components of military aircraft not designed/ developed by HAL Divisions.	PVT
24.	M/s. Taneja Aerospace & Aviation Ltd., 'B' Block, 2nd Floor, Akshaya Commercial Complex, # 26, Victoria Road, Bengaluru – 560 047.	Structural repairs/modifications on all types of military aircraft except those designed/developed/manufactured by HAL.	PVT
25.	M/s. CSM Software Pvt. Ltd., Gayathri Lake Front Survey No. 118, Ring Road, Hebbal, Bengaluru – 560 024.	Design & development work on military aircraft including static, dynamic & thermal analysis of aircraft structures, structural MODS, aero engines and their components.	PVT
26.	M/s. Plexion Technologies (India) Pvt. Ltd.,	Analysis of aircraft and Rotorcraft structures and design of test	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	5th Main, Stock Exchange Towers, Dasarahalli, Magadi Main Road, JC Road, Bengaluru – 560 025.	rigs. Design & development of embedded system, software development for airborne system, verification & validation of airborne system, system integration of S/W & H/W for embedded system used in airborne application.	
27.	M/s. HAL – AR & DC Design Complex, Marathalli Colony, Bengaluru – 560 037.	Design & engineering support on design of fixed wing aircraft systems, components and upgrades of licenced aircraft.	PSU
28.	M/s. Aircraft design & Engineering Services Pvt. Ltd., No 822, 11 <sup>th</sup> Main, HAL 2 <sup>nd</sup> Stage, Bengaluru – 560 008	Design, development, production support aircraft and its systems to NAL for SARAS Aircraft.	PVT
29.	M/s. Prasad Aero Development Consultants Pvt. Ltd., # 16, New Shakti Sadan, Plot No. # 27, Sector – 13, Rohini, New Dehli – 110 085.	Design consultants during the development of aero tyres and tubes for development specification, generation of qualification test requirements and involvements during test.	PVT
30.	National Aerospace Laboratory (NAL), Centre for Civil Aircraft Design, Bengaluru – 560 037.	Design and Development of SARAS Aircraft (Multi role light transport aircraft) (9-14 seats).	Govt
31.	M/s. SAS Techno Solutions MS School of Advanced Studies, Gnanagangothri Campus, New BEL Road, MSR Layout, Bengaluru – 560 054.	CFD/FEM analysis for aircraft structures and engine components.	PVT
32.	M/s. BAe HAL Software Limited.,	Design, Coding, Testing of Airborne Embedded Software and	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Airport Lane, HAL Estate, Bengaluru – 560 017.	IV & V.	
33.	M/s. HAL – Design Liaison Engineering Dept Helicopter Division, Vimanapura P. O, Bengaluru – 560 017.	Design Liaison/Engineering for Military Helicopters systems and components.	PSU
34.	M/s TSL Defence Technologies Pvt Ltd. Aircraft and Military Systems Division 715-716, 6 <sup>th</sup> Floor, Oxford Towers, Airport Road Bengaluru – 560 008	Design & Development of Accessories and Systems for Military aircraft.	PVT
35.	M/s. HAL – ETBR&DC P. B. No. 9310, C. V. Raman Nagar, Bengaluru – 560 093.	Design of Aero–Engine components, design and commissioning of engine test beds/test rigs for testing of gas turbine engine components and indigenization of aero engine components.	PSU
36.	M/s. L & T InfoTech Ltd., Plot 25 – 30, EPIP 1 <sup>st</sup> Phase, KIADB Industrial Area, Whitefield, Bengaluru – 560 066.	Full Life cycle development of mission & critical software including IV&V Activities.	PVT
37.	M/s. HAL – ASER&DC Accessories Division, Lucknow – 226 016.	Design, development, manufacture of equipment/ accessories of aircraft/ rotor craft. Modifications of existing system/accessories of bought out aircraft and rotorcraft.	PSU
38.	M/s. HAL – GTR&DC,	Design liaison engineering for military aircraft engines of	PSU

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Koraput Division, Sunabeda – 763 002, Orissa,	Russian origin, its systems and components.	
39.	M/s. TATA Consultants Services SJM Towers, # 18, Sheshadri Road, Bengaluru – 560 001.	Design and analysis for a). Metallic, Non-Metallic/composite structures b). Thermal & CFD.	PVT
40.	M/s. L & T Limited e-Engineering Solutions Bldg No.4, Pankaj Industrial Estate, Opposite GEB sub – Station, Channai Road, Vadodara – 391 740.	Design & stress analysis of a). Aircraft structures B). Hydro-Mechanical components.	PVT
41.	M/s. Raghavendra Electrotech No. 24/6, 2nd Floor, 20th Main, 1st 'R' Block, Rajajinagar, Bengaluru – 560 010.	Design & development of airborne power supply units up-gradation & modification of electrical aggregates.	PVT
42.	M/s. JK Consultants, GOA Branch, 3rd Floor, 'B' Block, Manzoor Hill, VASCO-DA-GAMA, GOA – 403 802.	Repair/up-gradation of avionic equipments of Russian origin.	PVT
43.	M/s. ReLQ Software Pvt. Ltd., # 140, 33rd Cross, 7th Main, 4th Block, Jayanagar, Bengaluru – 560 011.	Software V&V for military aircraft systems, Missile Systems, Helicopters system and other ON-BOARD defence systems/stores.	PVT
44.	M/s. OKS Speciality Lubricants (I) Pvt. Ltd., 347-A, Hebbal Industrial Area, Metagahalli P. O, Mysore – 570 016.	Development of speciality lubricants and corrosion protection products.	PVT
45.	M/s. HAL-SLRD&C Avionics Division, Hyderabad – 500 042.	Design, development, modification, up-gradation & life evaluation of electronic systems for the existing/licensed aircraft and rotorcraft indigenization of equipments and components for both built and bought out aircraft and systems.	PSU

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
46.	M/s. Versabyte Data Systems Pvt. Ltd., 2nd Floor, No. 25/D, 20th Main, 1st 'R' Block, Rajajinagar, Bengaluru – 560 010.	Design & development of airborne power supply units. Design & development of airborne electronic units, microprocessor based units. Rebuilding airborne electrical machines through modification and reverse engineering.	PVT
47.	M/s. HAL – F&F Division Vimanapura Post, Bengaluru – 560 017.	Design & development of castings, forgings, rolled rings, Powder metallurgy, organic & brake products, rubber products as H/W items for aircraft, engine and airborne systems.	PSU
48.	M/s. Onward Technologies Limited, Almont IT Park, 5 <sup>th</sup> Floor, Next to Radison Blue Hotel, Kharadi, Pune – 411 014.	CAD/ CAE related activities and CFD/FEM analysis for aircraft structural components.	PVT
49.	M/s. SIGMA Micro Systems Pvt. Ltd., No. 24/A, Hardware Park, Near International Airport, Srisailam Highway, Hyderabad – 500 005	Design, development and documentation of analog and digital systems using Microprocessor/ Microcontroller for airborne systems (both H/W and S/W).	PVT
50.	M/s. SHIPARA Technologies Ltd., No. 8 & 9, G B Palya, OFF. Hosur Road, Bengaluru – 560 068.	Software development for airborne application independent verification and validation of avionics system software.	PVT
51.	M/s. Karnataka Hybrid Micro Devices Pvt. Ltd., Plat No. Part 103, 4th Cross, Electronics City, Bengaluru – 560 100.	Design, development & manufacture of products for avionics: a). Hybrid IC b). Electronic control units embedded S/W C). Resistor network.	PVT
52.	11 Base Repair Depot (BRD) Airforce, Ojhar, Nasik – 422 207.	Design Modification of aircraft systems, indigenization of components & LRUs & Life enhancement of Russian origin aircraft and its components.	Govt
53.	Centre for Airborne Systems (CABS)	AEW & C radar system & sub-systems design pertaining to	Govt

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	DRDO, Belur, Yamlur Post, Bengaluru – 560 037.	mods/updates lightning protection design & testing.	
54.	M/s. Apollo computing Laboratories (P) Ltd., # 12-13-197/403-405, Pavani Anusuya Tower, Opp HUDA Complex, Taranaka, Hyderabad – 500 017.	Design and development of electronics system/sub-systems/modules with embedded S/W for deployment on airborne platform Design & development of on-board equipments for guided weapons.	PVT
55.	M/s. SLN Technologies Pvt. Ltd., 3 <sup>rd</sup> Floor, “Horizon”, No.1, Pai Layout, Old Madras Road, Bengaluru – 560 016	Design & development of avionics equipments, ATE & Ground support equipments for aircraft and Helicopters.	PVT
56.	M/s. Bharat Dynamics Ltd., Kanchan bagh, Hyderabad.	Design & development of electronics systems/LRU’s/modules for airborne application.	PVT
57.	M/s. Sanghvi Aerospace (P) Ltd., B/h. Lalit warehouse, Narol –sarkhej highway, Narol, Ahmedabad-382 405.	Design & development of on-board electrical wires & cables with the following scope: a). Airframe open wiring b). Fire resistance & fire proof wiring of airborne application c). Thermocouple extension wires & cables d). Aromatic polyimide lacquered magnet wire for high temp. and actuator application.	PVT
58.	3 Base Repair Depot (BRD) Airforce Station, Chandigarh – 160 003.	Indigenization, life extension and Modification of Helicopters and its components.	Govt
59.	M/s. Navanidhi Electronics Pvt. Ltd.,	Design & Development of avionics systems for military aircraft	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Plot No. 21, Road #4, IDA, Mallapur Industrial Estate, Nacharam, Hyderabad – 500 076.	and airborne systems.	
60.	M/s. Meltronics Systems Pvt. Ltd., # 107, “Jeevith Gardens” Beside Brookefield. Opp. ITPL Road, Kundalahalli, Bengaluru – 560 037.	Design & Development of avionics systems (H/W & S/W) for Military aircraft and airborne systems.	PVT
61.	M/s. Quantech Global services Ltd., #400/2. Tarang Towers, 1st Floor, Whitefield 100 Feet Road, Hoody, Bengaluru – 560 048.	a). CAD & CAE for aerospace structures, aero engines and its accessories b). Re-engineering & reserve Engineering of aerospace components. c). Design optimization of aerospace structure/ components.	PVT
62.	16 Base Repair Depot (BRD) Airforce, Palam, New Delhi – 110 066.	Indigenization life extension and modification of Helicopters and its components.	Govt
63.	M/s. Hindustan Aeronautics Ltd., ASER&DC, Amethi, Sultanpur (Dist) Korwa – 224 412.	Design, Development & modification of on-board avionics equipments/systems developed indigenously or licence built. SSFDR/CDR and its dedicated test & ground support equipments required for avionics.	PSU
64.	M/s. Innovation communications System Ltd., 8-3-898/30/2, Nagarjuna Nagar Colony, Ameerpet, Hyderabad – 500 073	Development of electronic systems/sub-system modules with embedded S/W for deployment on ground based/ airborne equipment. Design and development of embedded S/W for UMS and airborne mission critical applications.	PVT
65.	M/s. Altair Engineering India Pvt. Ltd.,	Design and analysis of aircraft and helicopter structures, aero-	PVT



DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Mercury 2B Block, 5 <sup>th</sup> Floor, Prestige Tech Park, Sarjapur, Marathahalli Ring Road, Bengaluru – 560 087.	dynamics and aero-elasticity, CFD analysis of aircraft power plant, optimization and lifing, thermo-mechanical structures analysis of aero engines.	
66.	M/s. Vikram Sarabhai Space Centre (VSSC) ISRO, Dept. of Space, GOI, Thiruvanthapuram – 695 022.	Design and development of electro-hydraulic/ mechanical servo actuators and control system for aerospace applications.	Govt
67.	M/s. Southern Electronic (Bengaluru) Pvt. Ltd., # 16-A Phase-1, Peenya Industrial Area, Bengaluru – 560 058.	Design, development and manufacture of avionics equipment/ system and its test benches/rigs.	PVT
68.	M/s. Oak Systems Pvt. Ltd., # 27, NGEF Lane, Off. 100 feet Road, Indiranagar 1 <sup>st</sup> Stage, Bengaluru – 560 038	Software testing and IV & V.	PVT
69.	M/s. Process ware Systems Pvt. Ltd., # 33, PT Street, Basavanagudi Bengaluru – 560 004.	Design , development and IV&V of airborne software.	PVT
70.	M/s. Merlin hawk Aerospace Pvt. Ltd., # 57/5, 6th Cross, Tank Bund Road, NS Palya, BTM Layout 2nd Stage, Bengaluru – 560 076.	Design and manufacture of airborne/avionic systems for defence application.	PVT
71.	M/s. Wavelet Group Unit No. 10, Plot No. 59, Amchi Colony, Survey No. 1, NDA Road, Bawdhan, Pune – 411 021.	Design and development of activities for airborne application (which include Hardware Firmware and Software design and development) using digital signal processing products like microprocessors, DSP and FPGA.	PVT
72.	M/s. Spectrum Infotech Pvt. Ltd.,	Design and development of avionics LRU's (Hardware &	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	(A Wholly owned subsidiary of LARSEN & TUBRO Limited) Komarla Solitaire, Second Floor, Plot No.145/2, Old Madras Road, Nagawara Palya, C.V.Raman Nagar, Bengaluru-560 093.	Software) for Military, Aircraft and Airborne Systems.	
73.	M/s. Newtech Software Pvt. Ltd., HO 572, 6 'F' Cross, 17th Main, 6th Block, Koramangala, Bengaluru – 560 095.	Design & development of aviation software for military and airborne systems.	PVT
74.	M/s. DATA Patterns (India) Pvt. Ltd., # 19 (6), Arya Gower Road, West Mambalam, Chennai – 600 033.	Design and development of avionic LRU (Hardware and Software) for Military, Aircraft and Airborne Systems.	PVT
75.	M/s. ProSIM R&D Pvt. Ltd., # 21/B, 9th Main, Shakaranagara, Mahalakshmpuram, Bengaluru – 560 096.	<ul style="list-style-type: none"> <li>a). Linear &amp; Nonlinear finite element analysis</li> <li>b). Computer aided design (CAD) using Pro E/CATIA/UG</li> <li>c). Computer aided engineering (CAE)</li> <li>d). Fatigue and fracture analysis</li> <li>e). Crack growth analysis.</li> <li>f). Failure analysis.</li> <li>g). Remaining life assessment and extension.</li> <li>h). Metal forming analysis and simulation</li> <li>i). Analysis of welding (EB,TIG, MIG).</li> <li>J). Indigenization support by R&amp;D.</li> </ul>	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
		k). Multidisciplinary optimization (product and process re-engineering) l). Mechanisms analysis m). Multibody dynamics n). Virtual prototyping, computer simulation, numeric modeling.	
76.	DARE, DRDO, Min. of Defence, P. B. No. 7537 New Thippasandra P. O, Bengaluru – 560 075.	Design & Development of i). Airborne Mission Computer ii). Airborne EW system such as RWR, LWS & MAWS iii). Software for Airborne systems iv). Avionic upgrade/Modification of Aircraft/Helicopter v). Supersonic multipurpose pod.	Govt
77.	<b>NOT ISSUED</b>		
78.	<b>NOT ISSUED</b>		
79.	M/s. S. M. Creative Electronics Ltd., No. 10, Electronics City, Sector – 18, Gurgaon – 122 015 (HARYANA)	Design & development of switch mode power supplies for airborne application.	PVT
80.	M/s. Avantel Limited., Plot No. 16, Sector – III, HUDA Techno Enclave, Opp. K Raheja IT Park, Madhapur Hyderabad - 500 081.	a). General Design and development of microprocessor/microcontroller based airborne systems b). Design and development of Hardware of RF/Microwave, Wireless, Satcom and Networking products for airborne applications c). Design and development of software for airborne embedded systems.	PVT
81.	M/s. BiT Mappers Integration	Design & Development activities for Airborne applications	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Technologies Pvt. Ltd., B-1, Mayur Complex, Near yashwantrao chavan, Natyagruh, Opp. Bhelke Nagar, Kothrud, Pune – 411 038.	(which includes Hardware, Firmware and Software design and development) using FPGA's, CPLD's and Micro controllers.	
82.	M/s. Naval Aircraft Yard, Dabolim, Goa – 430 801.	Design, development of non-critical rubber seals, gaskets, sheet metal fabrication of metal frames.	Govt
83.	M/s. Park Controls & Communications Ltd., No. 22, 80 Feet Road, HAL 3rd Stage, Bengaluru – 560 075.	a). Design of electronic system LRU's using embedded, DSP technologies for telemetry, timing, radars, avionics etc., b). Electronic design services for airborne equipment.	PVT
84.	M/s. Analogic Controls India Ltd., Survey No. 23/2, P.O. Gundlapochampally, Via Hakimpet, Medchal (Mandal), Hyderabad – 500 014.	a). Design, Development & Manufacturing of Electronic systems with embedded software for airborne applications b). Indigenization of Micro controller, CPLD, FPGA & DSP based modules for Airborne applications.	PVT
85.	M/s. Premier Explosives Limited, No. 202 & 203, 2nd Floor, Minerva Complex, S. D. Road, Secunderabad – 500 003.	Design, Development and manufacture of explosive items a). Pyro Mechanical Actuator b). Igniter, c). Gas Generator. d). Propellants for airborne applications	PVT
86.	M/s. VIKAS Communication Pvt. Ltd., Plot No. 16, Moti Enclave, Trimulagherry, Secunderabad – 500 015.	Design and development of airborne electronic and RF communication systems.	PVT
87.	M/s. Verdant Telemetry & Antenna Systems Pvt. Ltd, Reg No. 26/411A, Konthuruthy, Cochin – 682 013.	Design of airborne antenna, systems and radomes.	PVT
88.	M/s. Radel Advanced Technology Pvt. Ltd.,	Design and manufacture of airborne avionics equipment,	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	74/D, Electronics City, Hosur Road, Bengaluru – 560 100.	harness and installation on Military Aircraft.	
89.	M/s. Speck Systems Ltd., No. B-49, Electronic Complex, Kushaiguda Hyderabad – 500 062.	Design, development, manufacturing & servicing of avionic sub-systems and systems, (communications, digital, RF and Microwave sub-systems with embedded SW) for military aircraft and airborne systems.	PVT
90.	M/s. Comptek computer Systems Pvt. Ltd., Sri Krishna Plaza, Plot No. 163P & 164, First Floor, Mahesh Nagar, ECIL Post, Hyderabad – 500 062	Design & development of electronics computer systems/processor systems /display/keyboards for airborne applications.	PVT
91.	M/s. Mistral Solutions Pvt. Ltd., 60, Adarsh Regent, 100 Feet Road, Domlur, Bengaluru – 560 071	Hardware and Software Design for Aviation Applications Addition to Scope of Approval: Independent Verification & Validation (IV&V) for Airborne Application.	PVT
92.	M/s. Naval Aircraft Yard, Naval Base, Kochi, Kerala – 682 004.	Design & development of minor aircraft spares/avionics equipment/ground support equipment at naval ship yard.	Govt
93.	M/s. Pet Aviation Systems Pvt. Ltd., 3rd Floor, B-21, Industrial Estate, Sanathnagar, Hyderabad – 500 018.	Design, development and manufacture of avionic modules/PCBs in the following areas: a). Oscillators b). Amplifiers c). Power supplies d). Mixers e). Converters like ADC and DAC	PVT
94.	M/s. Ananth Technologies Ltd., (ATL) Plot No. 1355A, Road No. 1, Jubilee Hills, Hyderabad – 500 033.	Design, development, manufacturing of on-board electronic packages for aerospace applications	PVT
95.	M/s. Accord Software & Systems Pvt. Ltd.,	Design Approval for development of Hardware and Software &	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	37, K. R. Colony, Domlur Lay Out, Bengaluru – 560 071.	IV&V Services for Airborne Applications.	
96.	M/s. Fair Tech Engineering Services Pvt. Ltd., #288, Sri Maruthi Building, 3 <sup>rd</sup> Floor, 100 feet Ring Road, Banashankari, Bengaluru – 560 088.	Design and analysis of aircraft and helicopter structure & Mechanical components and analysis of aero engine components.	PVT
97.	M/s. Bharath Electronics Limited., IE-Nacharam, Hyderabad – 500 076.	Design, development manufacturing & servicing of avionic systems & sub-systems and also airborne EW systems for airborne applications.	PSU
98.	M/s. Chaturvedi Technologies, No . 55, Industrial Area, Banashankari 2nd stage, Bengaluru – 560 070.	Design and manufacture of mechanical assemblies of airborne antenna, assemblies of active antenna array units and mechanical enclosure for military airborne systems	PVT
99.	M/s. Taneja Aerospace and Aviation Ltd., Belagondapally Village, Thally Road, Denkanikottai Taluk, Belagondapalli-635 114. Tamil Nadu, INDIA.	a). Structural modifications/repair work on all military aircraft/Helicopter. b). Electrical and avionics integration/ Modification/ repair work on all military aircraft/helicopter c). Design and drawing of seat fairing parts belonging to heavier military aircraft/ Helicopter. d). Design and development of interiors and refurbishing of military helicopters.	PVT
100.	M/s. ACD Communications Pvt. Ltd., Plot No. 43, IDA, Phase -1, Cherlapally, Hyderabad – 500 051.	Design, development, manufacturing of airborne antennas and components working over frequency band HF to Millimeter wave.	PVT
101.	M/s. Vem Technologies Pvt. Ltd.,	Design, development and manufacturing of products related to	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	# 8-48/1, Bachupally Industrial Area, Quthubullapur Mandal, Rangareddy District, Hyderabad – 500 072.	avionic system and sub-systems for airborne application.	
102.	M/s. System Controls Technology Solutions Pvt. Ltd., 119, 3 <sup>rd</sup> Main, East of NGEF Layout, Outer Ring Road, Kasturi Nagar, Bengaluru – 560 043	Design, development of avionics systems and control systems.	PVT
103.	M/s. BEML Limited., Technology Division, P.B. No. 7501, New Thippasandra Post, Bengaluru – 560 075.	Design, development of CAD & CAE applications to aircraft engine and airframe components for airborne applications.	PSU
104.	M/s. Def Sys Solutions Pvt. Ltd., Block-1-B, Plot No. 35 A 3, KIADB Industrial Area, Hoskote, Bengaluru – 562 114.	Design & development of systems, software, test equipments, simulators for military Aircraft & Aircraft modification involving integration and installation of airborne systems.	PVT
105.	M/s. Ignis Technology Solutions Pvt. Ltd., No 17/17, 30 th Main, 7th Cross, Banashankari 3rd Stage, Bengaluru – 560 085.	Design & development of software, software IV & V and engineering services for military airborne applications.	PVT
106.	M/s. Dynamatic Technologies Ltd., No. 11, Peenya 2nd Stage, Bengaluru – 560 058.	Static & dynamic analysis, geometric modeling and manufacturing drawings, tooling design, sheet metal processing, NC programming of airframe components.	PVT
107.	M/s. MRF Limited., 124, Greams Road, Chennai – 600 006.	Design, development, manufacturing and testing of aviation tyres & tubes for Helicopters and aircraft.	PVT



DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
108.	M/s. Tech Mahindra Limited # 45/46/47, Electronic City, Phase – II, KIADB Industrial Area, Bengaluru – 560 100. <u>Company Name Changes:</u> M/s. Tech Mahindra Limited	Design and development of aircraft structures and mechanical systems components. <u>Additional Scope:</u> Design of Avionics Software and Independent Verification & Validation (IV & V) for Military Airborne Applications.	PVT
109.	M/s. Samtel Avionics Limited, 1 <sup>st</sup> Floor, Wegmans Business Park, Plot No. 3, Knowledge Park – III, Greater Noida – 201 308	Design and development of color multifunction displays, ruggedized active Matrix LCD panel, head up displays & color avionics tube for airborne application.	PVT
110.	M/s. Laxtronics Instruments & Controls Pvt. Ltd., K-16, M.I.D.C, Ambad, Nasik – 422 010.	Design, development and manufacturing of avionic equipments (LRU's, power supply modules, combination logic relay boxes, controllers, RF Modules) for airborne applications.	PVT
111.	L&T e-Engineering Solutions Bytarayanapura, Bellary Road, Bengaluru - 560 092.	CAD/CAM & CAE applications to metallic and composite airframe components, preparation of manufacturing drawings and tool design, static & dynamic analysis, rig design and testing of structural components, Aero- elastic analysis and mechanical design for airborne applications.	PVT
112.	M/s. Aayur Technology Solution Pvt Ltd., AAyur-3, # A-66, KSSIDC Industrial Estate, 6th Block, Rajajinagar, Bengaluru - 560 044.	Design, development and manufacture of avionic systems and sub-systems namely racks, ATRs, consoles, displays, input devices and amplifiers for airborne applications.	PVT
113.	M/s. Astra Microwave Products Ltd., ASTRA Towers, Survey No. 12(P), Kothaguda Post, Kondapur Hi-tech city, Hyderabad - 500 048.	Design & development of RF/Microwave sub-systems related to airborne electronic warfare, telemetry, radar, Avionics Equipment and Antennas for Airborne Applications..	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
114.	M/s. Rossell Tech sys (A Division of Rossell India Limited), # 74, 3 <sup>rd</sup> Cross, Export Promotion Industrial Park, Whitefield, Bengaluru – 560 066	Design, development and testing of hardware and software systems for airborne applications, Test Rigs and Fabrication of Aircraft Looms.	PVT
115.	M/s. Prudent Communication Systems Pvt. Ltd., # 38/5-8, 1 <sup>st</sup> Main Road, 2 <sup>nd</sup> Stage, Industrial Suburb, Yeswanthpur, Bengaluru – 560 022	Design, development and modification of RF and basic electronics systems / sub – systems for military airborne applications.	PVT
116.	M/s. EmWiB Technologies Pvt. Ltd., Plot No. 29, Second Floor, Kiran Enclave, Sikh Road, (Near Diamond Point), Secunderabad – 500 009.	Design & Development activities related to S/W, Hardware Design, Development and Manufacturing of electronic modules for Airborne applications.	PVT
117.	M/s. Assystem Technologies India Private Limited (Formerly Known as Silver Atena Electronic Systems (India) Pvt. Ltd) Unit No. 201 (2A), Xylem, Plot No. 4&4A, 2 <sup>nd</sup> Floor, Dyavasandra Industrial Area, ITPB Main Road, Mahadevapura, Bengaluru – 560 048	Design, Development, verification and validation of military airborne software for safety critical and other applications <u>Additional Scope:</u> Engineering Services for Design and In-Service Support for Aero Structures and Aircraft Systems.	PVT
118.	M/s. Datasol Innovative Labs, No – 5, AC-418, 1 <sup>st</sup> Floor, 5A Cross, 2 <sup>nd</sup> stage, Kalyan Nagar, HRBR Layout, Banaswadi, Bengaluru – 560 043	Design and Development of Electrical / Avionic Equipment for Military Airborne applications.	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
119.	M/s. Honeywell Technology Solutions Lab. Pvt. Ltd., Survey No. 96&97, Boganahalli Village, Survey No. 72/2 & 72/5, Doddakanahalli Village, Varthur, Hobali Bengaluru – 560 103.	Design & Development of Software including IV & V for avionics products, Engineering Analysis and Simulation Concerning Engine and its Components and Aircraft – Engine Integration.	PVT
120.	M/s. Symmetric Technologies Pvt. Ltd., #224, 5th Cross, 2nd Block, R.M.V. 2nd Stage, 80 Feet Road, Sanjaynagar, Bengaluru – 560 094.	Software Design, Testing and Independent Verification & Validation for Military Airborne Applications.	PVT
121.	M/s.Pinaka Aerospace Solution Pvt.Ltd., 2 <sup>nd</sup> Floor Vasundhara, 7M-209, 80 Feet Road, HRBR Layout, Kalyan Nagar, Bengaluru – 560 043	Design & Development of Software and Software IV & V for Military Airborne Applications.	PVT
122.	M/s. TATA HAL Technologies Limited, Venus Building, 1/2 Kalyan Mantappa Road, Jakkasandra, Koramangala 1st Block, Bengaluru-560 034.	Design, Analysis, Review and optimization of Aero Structures.	PVT
123.	M/s. Sattva Aero Accessories & Systems Pvt. Ltd., No. 91, 11 <sup>th</sup> Main,Begur Main Road, Hongasandra, Benagluru-560 068.	Design & Development of Generators, Motors, Actuators, Control & Actuation Systems for Military Airborne applications.	PVT
124.	M/s. Airworks India Engineering Pvt. Ltd., TAAL Airport (Hosur), Tally Road, Belagondapalli, Hosur-635 114.	Design & Development of Aircraft Modifications, system integration and upgrade for military airborne applications.	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
125.	M/s. Design Liaison Engineering Department (DLE) of Helicopter Division, HAL, Post Bag No.1796, Bengaluru-560 017.	Transmission System Rotor System Vibration Monitoring System IADS (Beyond Software version 2.88).	PSU
126.	M/s. Chivaro Technologies Pvt. Ltd., Embassy Icon Annexe, No.2/2, Infantry Road, Bengaluru-560 001.	Design & Development Services for Aircraft, Helicopter, Gas Turbine and UAVs for Military Airborne Applications.	PVT
127.	M/s. CMC Limited, CMC Centre, Old Mumbai Highway, Gachibowli, Hyderabad-500 032.	Verification and Validation of Designer as well as mission critical and safety critical airborne systems including Hardware and Software.	PVT
128.	M/s. MEL Systems & Services Limited Plot No.173, Developed plots Estate for Electrical, Electronics & Instrument Industries, Perungudi, Chennai-600 096.	Design & Development of Recorders, Utility services Management Systems and Electronic Accessories for Military Airborne Applications.	PVT
129.	(No More Existing and merged with Assystem Technologies India Pvt. Ltd., (Formerly Known as Silver Atena Electronics Systems Ltd.,) – DA -117		PVT
130.	M/s. Wisdom Infotech Pvt. Ltd., Crown Center, #2, Landons Road, Kilpauk, Chennai-600 010.	Design, Development, Testing & Evaluation of Avionics Software for Military Airborne Application.	PVT
131.	M/s. Voith Engineering Services Private Limited, #12, Varsav Plaza, Ground Floor, Jayamahal Main Road, Bengaluru-560 046.	Design & Engineering Service Activities Involving Product Design, Engineering Analysis, CAD/CAM/CAE Services, Manufacturing Support, JIGS Fixtures-Tooling support & Technical Documentation for Military Airborne Applications.	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
132.	M/S. GKS Software Services Pvt. Ltd., 2nd Floor Balaji House, Next to Mahalaxmi Heights, Opposite Sterling Honda Showroom, Finnolex Chowk, Pimpri, Pune-18.	3D Laser Scanning, Design, Development and Computer Aided Design of aircraft structure for Military Airborne Applications.	PVT
133.	M/s. Alpha Design Technologies Private Limited, 09, Service Road, H.A.L II Stage, Indira Nagar, Bengaluru-560 008.	Design & Development of Mission Avionics and Communication Systems for Military Airborne applications <u>Additional Scope of Approval:</u> Design & Development of Mechanical and Electrical Interfaces for the integration of Avionic and Weapon Systems on Aircraft and Helicopters.	PVT
134.	M/s. Avio Helitronics Info Systems Private Limited, #130, EPIP 2 <sup>nd</sup> Phase, KIADB Industrial Area, Whitefield, Bengaluru-560 066.	Design & Analysis of Aero Structure and Avionics Software development for Military Airborne applications.	PVT
135.	M/s. AK Aerotek Software Centre Private Limited, No.1 HAL IIA Stage, 100 Feet Road, Bengaluru-560 008.	Design, Development & Verification of Embedded Software for Safety Critical Systems for Military Airborne applications.	PVT
136.	M/s. KINETIX Solutions Private Limited, 1036, Shrinidhi Plaza, 2nd Floor, 14th 'C' Main, Banashankari II Stage, Bengaluru-560 070.	<ul style="list-style-type: none"> <li>• CFD of aero engine systems, modal analysis and tolerance stack up analysis.</li> <li>• CAD modeling of airborne components.</li> <li>• FE Analysis of aircraft and helicopter structures (Metal Constructions only) for Military Airborne applications.</li> </ul>	PVT
137.	M/s. Zeus Numerix Private Limited,	Design and Analysis of Aero dynamics, Structural Systems and	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	No. 305 & 306, 3rd Floor, Pushpak Business Hub Commercial survey No: 130/4, Mumbai Bengaluru Highway Wakad, Pune - 411 057	Sub-Systems Electromagnetics, Dynamics & Controls of Mission for Military Airborne Applications.	
138.	M/s. Integral Systems & Components Private Limited, D-388/1, 1st Cross, 1st Stage, Peenya Industrial Estate, Bengaluru – 560 058	Design & Development of Basic Avionics LRU'S/Systems, Electromechanical Systems, Components and Switches for Military Airborne Applications.	PVT
139.	M/s. Mission and Combat System Research & Design Centre, Design Complex, Hindustan Aeronautics Limited, HAL Main Factory, Vimnapura, Bengaluru – 560 017	<ul style="list-style-type: none"> <li>i) Design, Development, Integration and Testing of Avionics &amp; Electrical Systems, LRU's, Algorithms, Embedded &amp; Application Software for Manned and Unmanned Air Vehicles.</li> <li>ii) Avionics Upgrades for Fixed and Rotary Wing Aircraft</li> <li>iii) Design &amp; Development of Hardware and Software for System Simulators, Test Equipment, Test Rigs, Avionics System Integration Rigs and Mechanical Design for LRU'S &amp; Aircraft Installation.</li> <li>iv) Independent Verification and Validation (IV&amp;V) of software for Embedded Avionics Systems for Military Airborne Applications.</li> </ul>	PSU
140.	M/s. Tata Power Company Limited, Strategic Engineering Division,	Design & Development of Mission Avionics Systems & Equipments for Military Aircraft Applications.	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	42-43, Electronic City, Hosur Road, Bengaluru – 560 100		
141.	M/s. Adtech Inventions Private Limited, L-45, MIDC, AMBAD, NASIK – 422 010, Maharashtra	Design & Development of Electronics and Electrical Aeronautical Stores.	PVT
142.	M/s. Aerospace Engineers, The Salem Aeropark, NH-7, Ammapalya Village, Mallur, Salem – 636 203, Tamilnadu	Design & Development of Metallic & Non – Metallic Parts for Military Airborne Applications. <u>Additional Scope:</u> Design & Development capability of following surface treatment processes to the metallic components for Military Airborne Applications: (a) Anodizing (b) Chromatizing (c) Passivation of Stainless Steel (d) Blue Anodizing of Titanium	PVT
143.	M/s. Tata Elxsi Limited, ITPB Road, Whitefield, Bengaluru – 560 048	Design, Development, Verification, Validation Capabilities for Airborne Systems, Hardware & Software for Military Airborne Applications	PVT
144.	M/s. Genser Aerospace & Information Technologies Pvt. Ltd, # 4/3, Crescent Road, High Grounds, Bengaluru – 560 001.	Design Engineering Services for Military Aircraft Applications: <ul style="list-style-type: none"> <li>• CFD and FEA analysis of Aircraft and Aircraft Systems</li> <li>• Modeling, Analysis and Validation of Cable Harnesses and Cable Routing</li> <li>• Design &amp; Development of Software Tools for Aircraft Test Data Analysis</li> </ul>	PVT



DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
		<ul style="list-style-type: none"> <li>Preparation of Aircraft Documents, Manuals &amp; Technical Publications.</li> </ul>	
145.	M/s. Enti Innovations Pvt. Ltd., #261 A-2, I Floor, Doddenakundi Industrial Area, Mahadevapura Post, Bengaluru – 560 048.	Detailed Design, Optimization and Analysis of Fixed Wing and Rotary Wing Airframe Structural and Assemblies for Military Airborne Applications.	PVT
146.	M/s. CoreEL Technologies (I) Pvt. Ltd., No. 21, 1st Block, 7th Main, Koramangala, Bengaluru – 560 034	Design, Development and Testing of Avionics Systems, Subsystems and LRU covering Embedded Systems for Military Airborne Applications.	PVT
147.	M/s. System Aids, 9th Main Road, 1st Stage, Hennur Banaswadi Layout, Kalyan Nagar, Bengaluru – 560 043	Design & Development of Electronics / Avionics Systems LRU's for Military Airborne Applications.	PVT
148.	M/s Trident Infosol Pvt Ltd, 01st Floor, 'A' Block, Kushal Garden Arcade, #1A, Peenya Industrial Area, Phase - II, Banagalore - 560 058	Mechanical & Avionics systems and sub-systems for Military Airborne Applications.	PVT
149.	M/s. Moog India Technology Centre Pvt. Ltd, Plot No. 1,2 & 3, Electronic city, Hosur Road, Bengaluru – 560 100.	<ol style="list-style-type: none"> <li>Computer Software - Design, Development and Consulting of Flight Software w.r.t RTCA DO -178 B/C guidelines</li> <li>Electrical &amp; Electronics- Design of Electrical Components such as Motors, LVDTs, RVDTs, Resolvers, Encoders for Flight Control Systems.</li> <li>Mechanical - Design, Development and Qualification of Mechanical Components Like:</li> </ol>	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
		<ul style="list-style-type: none"> <li>• Flap Slat Control Lever and other Similar Systems</li> <li>• Hydraulic Flow Control and Directional Devices like Direct Drive Servo Valves, Relief Valves and Check valves etc.,</li> <li>• Finite Element Analysis (Stress, Vibration, Thermal &amp; CFD Analysis) Performance &amp; Endurance testing of Mechanical flight control system components as per customer requirements</li> <li>• Environmental Qualification of systems &amp; subsystems as per DO-160 G and customer specific requirements.</li> </ul>	
150.	M/s. Amphenol Interconnect India Private Limited, Plot No. 61, Keonics, Electronics City, Hosur Road, Bengaluru – 560 100	Design and Development of Cable Harness, Electro-mechanical Packaging, Backshell and Connectors for Military Airborne Applications.	PVT
151.	M/s. Mechwell Industries Limited, R&D – Center for Innovation, “Malay”, 607/201, Anand C.H.S, Motiwani Road, Nasik – 422 101	Design and Development of Engineering Solutions on Component level for Military Airborne Applications using commercially available tools on Computational Fluid Dynamics (CFD) & Finite Element Analysis (FEA).	PVT
152.	M/s. Deepti Electronics & Electro Optics Pvt. Ltd.,	Design, Development and Integration of Electronic Systems	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	# 3 & 4, 1 <sup>st</sup> Cross, 7 <sup>th</sup> Main, C. Industrial Area, Off. Kanakapura Main Road, Bengaluru – 560 062	with software for Military Airborne Applications.	
153.	M/s. Centum Electronics Limited # 44, KHB Industrial Area, Yelahanka New Town, Bengaluru – 560 106.	Design, Development and Qualification of Power Modules, DC – DC Converters, RF and Hybrid Micro Circuit Modules for Military Airborne Applications.	PVT
154.	M/s. ComAvia Systems Technologies Pvt. Ltd., # 31, St. Mary's Church Road, Gangamma Circle, P.O. Jalahalli, Bengaluru – 560 013	Design, Development and Testing of Software for Mission Critical Military Airborne Applications.	PVT
155.	M/s. Si2 Microsystems Limited, # 84, EPIP, DEEP TOWER, Whitefield Industrial Area, Bengaluru – 560 066	Design and Development of System in Package (SIP) and Embedded Systems for Military Airborne Applications.	PVT
156.	Software Engineering Group, Aerospace Electronics Division (SEG, ALD), CSIR-National Aerospace Laboratories, Old Airport Road, Kodihalli, Bengaluru – 560 017	Design and Development of Airborne Software and Independent Verification and Validation of Airborne Software for Military Airborne Applications.	Govt
157.	M.S. Ramaiah University of Applied Sciences No. 470-P, Peenya Industrial Area, 4 <sup>th</sup> Phase, Peenya, Bengaluru – 560 058	Analysis of Aircraft Structure, Engine and Exhaust Components for Military Airborne Applications.	PVT
158.	M/s. J K Tyre & Industries Limited Plot No. 58, Sector – 27C, 13 <sup>th</sup> Milestone, Mathura Road, Faridabad – 121 003, Haryana <u>Read:</u> M/s JK Tyre Tech Centre, Plot No. 437, Raghupati Sighania centre of Excellence,	Design & Development of Tyre for Military Aircraft.	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Hebbal Indl Area, Metagalli, Mysuru - 570 016		
159.	M/s. Autotec System Pvt. Ltd. No. 177/6B, Ashraya Ornate, Bilekahalli, Bannerghatta Road, Bengaluru- 560 076	Hardware Design & Development of Avionics Systems for Military Aircraft.	PVT
160.	M/s. Traana Technologies Pvt. Ltd., No. 454, Ground floor, 1 <sup>st</sup> cross, P&T Layout, Horamavu main road, Bengaluru – 560 043	Design, Development, Verification and Validation of Embedded systems software for Mission Critical Military Airborne Applications.	PVT
161.	M/s. Sonic Multitech Pvt. Ltd., C-11/33, NICE, MIDC Satpur, Nasik – 422 007	Design and Development of Avionics system LRUs and Sub-components including Testers, Binding Strips & PCB's for Airborne Military Applications.	PVT
162.	M/s. SFO Technologies Pvt. Ltd., Plot No. 37, Cochin Special Economic Zone, Kakkanad, Cochin – 682 037, Kerala	Design & Development of Electronics / Optical Systems, Software / Firmware and Fabrication / Assembly of Cable Harness for Military Airborne Applications.	PVT
163.	M/s Ananya SIP Technologies Private Limited, Plot No.38, Srishti Bhavan, Meerpet post, Hyderabad – 500 079	Design and Development of RF and Microwave Sub-modules, Modules & systems for Military Aircraft and Airborne systems.	PVT
164.	M/s. Bharat Froge Limited Mundhwa, Pune Cantonment, Pune – 41 036	Design & Development of Processes for Various Metallic Materials and their Evaluation for Aero Structures and Engine meant for Military Airborne Applications.	PVT
165.	M/s. Samtel HAL Display Systems Limited, Ground Floor, Wegmans Business Park, Plot No. 3, Knowledge Park III, Greater Noida – 201308	Design, Development, Verification & Validation of Avionics & Display Systems for Military Applications.	PVT
166.	M/s.Cyient Ltd., Plot no.2, IT park,	Design development of Aero structures, Aero interiors, Aero-	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Nanakramguda, Gachibowli, Hyderabad - 500032	engine parts and systems, Aero systems, and Avionics.	
167.	M/s.Aerotech sikha Avio Systems Pvt. Ltd., No.3, Dr.Sharma Building, Gangadhar Chetty Road, Ulsoor, Bengaluru – 560 042.	Manufacturing assembly, testing, maintainance, repair and overauhal landing gear, hydraulic LRUs, and actuators.	PVT
168.	Shri.Jayasurya Enterprises, Sakthi Aero garden, No.23, Vengadamangalam Main Road, Ponmar, Chenai – 600 127.	Design and development of standard parts, LRUs and other airworthy related mechanical components for aircraft helicopters and airborne stores.	PVT
169.	M/s.Larsen & Toubro Limited Defence, Product and Technology Development Centre, G3 Building, First floor, Gate No.1, L&T Powai, sakivihar road, Mumbai-400 072.	Design and development of avionics, aero structures, control systems and software, mechanical systems and airborne systems for unmanned aerial vehicles.	PVT
170.	M/s.Tech Aero Devices, Sri Srikakara Sai Sanidhi, #1-6-43/29, Plot no.29, satyammanagar coloney, Old Alwal, Secunderabad – 500 010	Design and manufacture of Aero grade fasteners (class-C type) for airborne stores.	PVT
171.	M/s. Micro Genesis Tech Soft Pvt. Ltd, HAL, 2nd Stage, Bengaluru - 560 008	Software Design, Software Development Software Testing and Independent Verification.	PVT
172.	M/s Yottec, Pentafor Tower, 2 <sup>nd</sup> Floor, 8-3/1, Langford Road, Bengaluru – 560 025	Design and Development of Flight test instrumentation, Data Acquisition systems and other Non-Safety critical Electronics LRUs for Military Airborne Applications.	PVT
173.	M/s Apollo Microsystems Pvt. Ltd, Plot No. 128/A, BEL Road, IDA Mallapur, Hyderabad - 500 076.	Design and Development of Avionic systems, sub systems.	PVT
174.	M/s Defsys Solutions Pvt. Ltd, Ascendas One Hub (AOG), Phase-1, Dr Fresh SEZ,	Design and Development of Integrated Electronic and electro-optics systems for Military Airborne applications.	PVT

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
	Sohna Road, Gurgaon Haryana - 122 102		
175.	M/s SA Air Works India Pvt. Ltd, Kalyani House, Plot No. 40, sector 18, Udyog Vihar, Phase 1, Gurgaon -122 001	Design and Development of Modification/ Upgrade of Avionics Systems/ Subsystems and its installation on Military Aircraft (Rotary & Fixed Wing Aircraft).	PVT
176.	M/s Timetooth Technologies Pvt. Ltd, C-93, Sector-2, Noida -201 301, Uttar Pradesh.	Design and Development of Aircraft undercarriage system and seating system for Aircraft / Helicopters.	PVT
177.	M/s Serveen Software Systems Pvt. Ltd, Plot No. 153, Green Park Avenue, Medchal Road, Jeedimetla Village, Secunderabad - 500 055.	Design and Development of Test Rig, Software testing and documentation of Military Systems.	PVT
178.	M/s Paras wires Private Limited, Plot No. 6-B, 1st Phase, 1st Cross, Kumbalgodu Industrial Estate, Mysore Road, Bengaluru - 560 074.	Design and Development of wires and cables for Military Airborne Applications.	PVT
179.	M/s River Engineering Private Limited, Plot No. 54-55, Toy City, Ecotech-III, Greater Noida - 201 306, UP	Design, Development and Manufacture of Aero-mech and Aero-Electromechanical sub-systems and accessories for Airborne Applications.	PVT
180.	M/s NFOTEC Digital Engineering Private Limited, Surya Tec Park, # 34, Krishna Reddy Layout, Domlur, Bengaluru - 560 071	Analysis in respect of computational Fluid Dynamic and Finite element analysis of Airframe/ structures and Aero Engines.	PVT
181.	M/s GMR Aero Technic Ltd, Plot No. 1, GMR Hyderabad Aviation SEZ Limited, Rajiv Gandhi International Airport, Shamshabad, Hyderabad - 500 409.	Design House Approval for Repair of Metallic and Composite Aircraft structures.	PVT
182.	4 Base Repair Depot, C/o Air Force Station, Chakeri, Kanpur – 208 008.	Formulation of Repair Schemes for non-critical aero-engine parts to improve effectiveness of repair & overhaul activities.	Govt

DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
183.	1 Base Repair Depot, Air Force Station, Chakeri, Kanpur – 208 008.	Design of airframe repair schemes and indigenous development of non-critical spares for continued airworthiness support of Transport Aircraft.	Govt
184.	M/s Grow Controls, Plot No. P-5/1/A, Road No.: 13, IDA Nacharam, Ranga Reddy, Hyderabad - 500 076	Design, Development and Manufacturing of airborne electrical and power electronics systems.	PVT
185.	M/s HCL Technologies Ltd, Plot No. 129, Bommasandra, Jigani Link Road, Jigani Industrial Area, Bengaluru - 562 106.	Design, Development, Verification and Validation of Software for avionics systems, Static & Dynamic Analysis of A/C structural components and thermal Analysis of LRUs for Military Airborne Application.	PVT
186.	M/s Wipro Ltd - Product Engineering Services, Doddakannelli, Sarjapur Road, Bengaluru - 560 035.	Independent Verification and Validation of Mission Critical Software for Military Applications.	PVT
187.	M/s Anabond Limited, No.86, Industrial Estate, Perungudi, Chennai - 600 096,	Design & Development of adhesives and sealants systems based on Anaerobic Room Temperature Vulcanization (RVT) Silicones, Synthetic elastomers/ Resins and Cyanoacrylates for defence and aviation applications.	PVT
188.	M/s Tessolve Semiconductor Private Limited, Plot No. 31 (P2), Electronic City, Phase - II, Bengaluru - 560 100	Board level Hardware design and development including CD PCB layout design, Signal Integrity (SI) analysis, Power Integrity (PI) analysis EMI/EMC Simulation and Thermal analysis for Avionics Application.	PVT
189.	M/s General Aeronautics Pvt. Ltd, 2nd Floor, Entrepreneurship Centre, Indian Institute of Science Campus, Malleshwarm, Bengaluru - 560 012.	Design and Development of Unmanned Aerial systems and platforms for smaller weight class of UAVs.	PVT
190.	5 Base Repair Depot, Air Force Station, Coimbatore - 641 401	Indigenization of non-critical parts and design of repair/ rework scheme to support repair and overhaul activities for range of	Govt



DA No.	DESIGN APPROVED FIRMS	SCOPE OF APPROVALS	SEC
		A/C fleets serviced / supported by 5 BRD.	
191.	M/s. Rangsons Defence Solutions Pvt. Ltd., #142, 3 <sup>rd</sup> floor, KMK towers, K H Road, Bengaluru - 560 027	Design of PCB Assemblies, Modules of Avionics LRUs for Military Airborne application.	PVT
192.	M/s Lakshmi Machine Works Ltd, Advanced Technology Centre, #489,-511, Sathy Road, Ganapathy, Coimbatore - 641 006	Design, Development and Manufacture of metallic aerospace parts, sub and major assemblies for Airborne Applications.	PVT
193.	M/s Bharat Electronics Limited, Jalahalli Post, Bengaluru-560 013	Independent Verification and Validation (IV&V) of real time embedded software and related applications.	PSU