



## **AGENDA OF THE MEETING**

### **29<sup>th</sup> meeting of TED 14**

**Air & Space Vehicles  
Sectional Committee  
21.06.2024 (Virtual)  
2 PM to 4 PM**

### **Chairperson**

**Shri Rajeev Jyoti Garg  
Indian National Space Promotion  
and Authorization Centre  
(IN-SPACe), Ahmedabad**

### **Member Secretary**

**Ravindra Beniwal  
Deputy Director  
BIS Headquarters**

### **Item 0 Welcome and Opening Remarks**

### **Item 1 Confirmation of Minutes of the last Meeting**

No comments received on minutes of last meeting held virtually on 26.12.2023. The committee may formally *CONFIRM* the minutes.

### **Item 2 Scope and Composition of Committee**

**2.1** Existing Scope and composition of the committee may be accessed through [https://www.services.bis.gov.in/php/BIS\\_2.0/bisconnect/composition/Composition](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/composition/Composition).

**2.2** Following co-option requests have been received:

S.No	Name	Organization	Email ID
1.	Venkata Ratnam Devanaboyina	Koneru Lakshmaiah Education Foundation	ratnam2002v@gmail.com
2.	T M Naidu	Garudastra Aeroinventive Solutions Private Limited	tmnaidu4@gmail.com
3.	Thennavarajan S	CSIR - National Aerospace Laboratories, Bengaluru	thennavarajan@gmail.com
4.	George	Airbus Group India Private Limited	george.dsa@airbus.com
5.	Dhiraj Kumar Mahajan	IIT Ropar	dhiraj.mahajan@iitrpr.ac.in

The committee may *DELIBERATE*.

### Item 3 Issues Arising out of Previous Meetings

3.1 Following is the list of panels under TED 14.

***The Conveners may kindly update the committee about developments since last meeting.***

*The committee may decide on discontinuation of existing panels/ formation of new panels/ addition or removal of members from composition as per programme of work.*

S. No.	Panel	Members
1	<b>Panel on 'Aerospace Quality Management Systems'.</b>  <i>Review of IS 16000:2004 Aerospace Quality Management Systems - Requirements</i>	1. Sh. DKP Sinha, ADA 2. Sh. Pratap Panda, HAL 3. Sh. D. Nagaraju, GTRE 4. Sh. R. Kamalakannan, CEMILAC 5. Sh. Manish Saxena, ISRO 6. Sh. Manohar Sidana, In Personal Capacity 7. Representative, CEMILAC
2	<b>Panel for drafting of 'Special Publication on Fastener for Aerospace'.</b>	1. Sh. P. Ramkumar, VSSC 2. Sh. Veera Sesha Kumar, NAL 3. Sh. Atul Aggarwal, Sundram Fasteners 4. Sh. Manohar Sidana, In Personal Capacity 5. Sh. S. C. Shrimali, In Personal Capacity 6. Representative, Ankit Fasteners
3	<b>Panel for revision of IS 9624:1980</b>	1. Representative, DGCA – Convener 2. Representative, HAL 3. Representative, NAL 4. BIS
4	<b>Panel on Space Systems &amp; Operations</b>	1. Shri Kaushik R V, IN-SPACe – Convener 2. Smt. Sandhya Thyagarajan, CII 3. Sh. Mohit Ekbote, CII 4. Sh. D K Mondal, CQA 5. Sh. S G Rane, CQA 6. Sh. Paragjyoti Garg, IN-SPACe 7. Wing Cdr. Satyam Kushwaha, ISpA 8. Sh. Kranti Chand, ISpA 9. Dr. Kumar YESSVSDPK, ISRO 10. Sh. A Mohamed Sadhik, ISRO 11. Sh. Rajeev Gambhir, SIA 12. Sh. Saurabh Dubey, SIA

#### Item 4 Draft Standards/Amendments for Finalization

The documents mentioned as following have completed the wide circulation period and may be considered for Finalization-

S.No	Document Number	Document Title	Due Date
1	TED/14/21157IS 8169: 1997(Identical To: ISO 6517:2013)	AIR CARGO — CERTIFIED LOWER DECK CONTAINERS — DESIGN AND TESTING	23-06-2023
2	TED/14/24556IS 8980: 1978(Identical To: ISO 1467:1973)	GENERAL PURPOSE PUSH-PULL SINGLE-POLE CIRCUIT-BREAKERS FOR AIRCRAFT PERFORMANCE REQUIREMENTS	05-01-2024
3	TED/14/22971(Identical To: ISO 22010 : 2022)	SPACE SYSTEMS - MASS PROPERTIES CONTROL	25-07-2023
4	TED/14/22921(Identical To: ISO 10785 : 2011 )	SPACE SYSTEMS BELLOWS DESIGN AND OPERATION	19-07-2023
5	TED/14/22938(Identical To: ISO 15863 : 2003)	SPACE SYSTEMS SPACECRAFT-TO-LAUNCH-VEHICLE INTERFACE CONTROL DOCUMENT	16-07-2023
6	TED/14/22963(Identical To: ISO 20188 : 2018 )	SPACE SYSTEMS — PRODUCT ASSURANCE REQUIREMENTS FOR COMMERCIAL SATELLITES	20-07-2023
7	TED/14/22941(Identical To: ISO/TR 16158 : 2021 )	SPACE SYSTEMS - AVOIDING COLLISIONS AMONG ORBITING OBJECTS	27-07-2023
8	TED/14/22978(Identical To: ISO 14622 : 2000 )	SPACE SYSTEMS STRUCTURAL DESIGN LOADS AND INDUCED ENVIRONMENT	16-07-2023
9	TED/14/22927(Identical To: ISO 14952-1 : 2003 )	SPACE SYSTEMS - SURFACE CLEANLINESS OF FLUID SYSTEMS - PART 1: VOCABULARY	24-07-2023
10	TED/14/22918(Identical To: ISO 10786 : 2011 )	Space systems — Structural components and assemblies	25-07-2023
11	TED/14/22936(Identical To: ISO 15388 : 2022)	SPACE SYSTEMS - CONTAMINATION AND CLEANLINESS CONTROL	27-07-2023
12	TED/14/22925(Identical To: ISO 14303 : 2002 )	SPACE SYSTEMS LAUNCH-VEHICLE-TO-SPACECRAFT INTERFACES	16-07-2023
13	TED/14/20768IS 7879 : Part 8: 1987	GLOSSARY OF AERONAUTICAL AND ASTRONAUTICAL TERMS PART 8 POWER PLANT	12-05-2024
14	TED/14/22959(Identical To: ISO 18676 : 2017 )	SPACE SYSTEMS - GUIDELINES FOR THE MANAGEMENT OF SYSTEMS ENGINEERING	20-07-2023
15	TED/14/22916(Identical To: ISO 10784-2 : 2011)	SPACE SYSTEMS EARLY OPERATIONS PART 2 INITIALIZATION PLAN	16-07-2023
16	TED/14/22364(Identical To: ISO 16192: 2017)	SPACE SYSTEMS EXPERIENCE GAINED IN SPACE PROJECTS LESSONS LEARNED PRINCIPLES AND GUIDELINES	07-06-2023
17	TED/14/22934(Identical To: ISO 14952-6 : 2003)	SPACE SYSTEMS - SURFACE CLEANLINESS OF FLUID SYSTEMS - PART 6 : PRECISION-CLEANING PROCESSES	27-07-2023
18	TED/14/22976(Identical To: ISO/TR 11233 : 2014 )	SPACE SYSTEMS - ORBIT DETERMINATION AND ESTIMATION - PROCESS FOR DESCRIBING TECHNIQUES	25-07-2023
19	TED/14/21439IS 12863: 1989(Identical To: ISO 9031:1987)	AIR CARGO EQUIPMENT — HANDLING SYSTEMS FOR UNIT LOAD DEVICES (ULDS) — SYMBOLS FOR PICTORIAL REPRESENTATION	02-08-2023
20	TED/14/22923(Identical To: ISO 14222 : 2022 )	SPACE ENVIRONMENT NATURAL AND ARTIFICIAL EARTHS ATMOSPHERE FROM GROUND LEVEL UPWARD	20-07-2023
21	TED/14/20760IS 7879 : Part 5: 1982	GLOSSARY OF AERONAUTICAL AND ASTRONAUTICAL TERMS PART 5 AERODYNES HEAVIER-THAN-AIR AIRCRAFT	10-05-2024

22	TED/14/22953(Identical To: ISO 17761 : 2015 )	SPACE ENVIRONMENT (NATURAL AND ARTIFICIAL) — MODEL OF HIGH ENERGY RADIATION AT LOW ALTITUDES (300 KM TO 600 KM)	28-07-2023
23	TED/14/20757IS 7879 : Part 3: 1975	GLOSSARY OF AERONAUTICAL AND ASTRONAUTICAL TERMS PART 3 STRUCTURE	10-05-2024
24	TED/14/22947(Identical To: ISO 16781 : 2021 )	SPACE SYSTEMS SIMULATION REQUIREMENTS FOR CONTROL SYSTEM	16-07-2023
25	TED/14/22367(Identical To: ISO 23462: 2014)	SPACE SYSTEMS GUIDELINES TO DEFINE THE MANAGEMENT FRAMEWORK FOR A SPACE PROJECT	06-06-2023
26	TED/14/22362(Identical To: ISO 15865: 2022)	SPACE SYSTEMS QUALIFICATION ASSESSMENT	07-06-2023
27	TED/14/24559IS 11437: 1985(Identical To: ISO 4116: 1986)	Air Cargo Equipment Ground Equipment Requirements For Compatibility with Aircraft Unit Load Devices	05-01-2024
28	TED/14/22932(Identical To: ISO 14952-4 : 2003 )	SPACE SYSTEMS - SURFACE CLEANLINESS OF FLUID SYSTEMS - PART 4 : ROUGH-CLEANING PROCESSES	27-07-2023
29	TED/14/22950(Identical To: ISO 17546 : 2016 )	SPACE SYSTEMS — LITHIUM ION BATTERY FOR SPACE VEHICLES — DESIGN AND VERIFICATION REQUIREMENTS	28-07-2023
30	TED/14/22357(Identical To: ISO 11231: 2019)	SPACE SYSTEMS PROBABILISTIC RISK ASSESSMENT PRA	08-06-2023
31	TED/14/21434IS 13932: 1994(Identical To: ISO 2574:1994)	AIRCRAFT — ELECTRICAL CABLES — IDENTIFICATION MARKING	04-08-2023
32	TED/14/20706IS 7879 : Part 1: 1975	GLOSSARY OF AERONAUTICAL AND ASTRONAUTICAL TERMS PART 1 GENERAL	10-05-2024
33	TED/14/22973(Identical To: ISO 24917 : 2020 )	SPACE SYSTEMS - GENERAL TEST REQUIREMENTS FOR LAUNCH VEHICLES	24-07-2023
34	TED/14/22945(Identical To: ISO 16679 : 2015)	SPACE SYSTEMS - RELATIVE MOTION ANALYSIS ELEMENTS AFTER LV/SC SEPARATION	28-07-2023
35	TED/14/22939(Identical To: ISO 15864 : 2021 )	SPACE SYSTEMS - GENERAL TEST METHODS FOR SPACECRAFT , SUBSYSTEMS AND UNITS	27-07-2023
36	TED/14/21356IS 12678: 1989(Identical To: ISO 11532:2018)	AIRCRAFT GROUND EQUIPMENT — GRAPHICAL SYMBOLS	02-08-2023
37	TED/14/24557IS 12043 : Part 2: 1987(Identical To: ISO 2100:1987)	Aircraft Electrical Connectors Tests	05-01-2024
38	TED/14/22942(Identical To: ISO 16159 : 2012 )	SPACE SYSTEMS — LAUNCH PAD AND INTEGRATION SITE — FACILITY, SYSTEM AND EQUIPMENT FAILURE ANALYSIS	28-07-2023
39	TED/14/21443IS 11554: 1986(Identical To: ISO 4115:1997)	Methods Of Test For Air - Land Cargo Pallet Nets	23-06-2023
40	TED/14/22979(Identical To: ISO 14623 : 2003 )	SPACE SYSTEMS PRESSURE VESSELS AND PRESSURIZED STRUCTURES DESIGN AND OPERATION	16-07-2023
41	TED/14/22930(Identical To: ISO 14952-2: 2003 )	SPACE SYSTEMS - SURFACE CLEANLINESS OF FLUID SYSTEMS - PART 2 : CLEANLINESS LEVELS	27-07-2023
42	TED/14/22937(Identical To: ISO 15862 : 2009 )	SPACE SYSTEMS LAUNCH-VEHICLE-TO-SPACECRAFT FLIGHT ENVIRONMENTS TELEMETRY DATA PROCESSING	16-07-2023
43	TED/14/21135IS 7879 : Part 7: 1984	GLOSSARY OF AERONAUTICAL AND ASTRONAUTICAL TERMS PART 7 AIR TRAFFIC AND GROUND SERVICES	12-05-2024

44	TED/14/22967(Identical To: ISO/TS 20991 : 2018 )	SPACE SYSTEMS REQUIREMENTS FOR SMALL SPACECRAFT	21-07-2023
45	TED/14/22920(Identical To: ISO 11892 : 2012 )	SPACE SYSTEMS - SUBSYSTEMS UNITS TO SPACECRAFT INTERFACE CONTROL DOCUMENT	25-07-2023
46	TED/14/22977(Identical To: ISO/TS 18667 :2018 )	SPACE SYSTEMS - CAPABILITY-BASED SAFETY DEPENDABILITY AND QUALITY ASSURANCE (SD & QA) PROGRAMME MANAGEMENT	24-07-2023
47	TED/14/22926(Identical To: ISO 14950 : 2004 )	SPACE SYSTEMS UNMANNED SPACECRAFT OPERABILITY	16-07-2023
48	TED/14/22961(Identical To: ISO 19683 : 2017 )	SPACE SYSTEMS — DESIGN QUALIFICATION AND ACCEPTANCE TESTS OF SMALL SPACECRAFT AND UNITS	25-07-2023
49	TED/14/22365(Identical To: ISO 17666: 2016)	SPACE SYSTEMS RISK MANAGEMENT	08-06-2023
50	TED/14/22940(Identical To: ISO 16126 : 2014 )	SPACE SYSTEMS - ASSESSMENT OF SURVIVABILITY OF UNMANNED SPACECRAFT AGAINST SPACE DEBRIS AND METEOROID IMPACTS TO ENSURE SUCCESSFUL POST-MISSION DISPOSAL	27-07-2023
51	TED/14/22935(Identical To: ISO 14953 : 2000 )	SPACE SYSTEMS STRUCTURAL DESIGN DETERMINATION OF LOADING LEVELS FOR STATIC QUALIFICATION TESTING OF LAUNCH VEHICLES	16-07-2023
52	TED/14/20763IS 7879 : Part 6: 1978	GLOSSARY OF AERONAUTICAL AND ASTRONAUTICAL TERMS PART 6 SPACE TERMS	10-05-2024
53	TED/14/22917(Identical To: ISO 10784-3 : 2011 )	SPACE SYSTEMS EARLY OPERATIONS PART 3 COMMISSIONING REPORT	16-07-2023
54	TED/14/21442IS 12043 : Part 1: 1987(Identical To: ISO 1949:1987)	AIRCRAFT — ELECTRICAL CONNECTORS — DESIGN REQUIREMENTS	23-06-2023
55	TED/14/22924(Identical To: ISO 14302 : 2022 )	SPACE SYSTEMS - ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS	24-07-2023
56	TED/14/22948(Identical To: ISO 17401 : 2023 )	Space systems — Spacecraft interface requirements document for launch vehicle services	16-07-2023
57	TED/14/22955(Identical To: ISO 17770 : 2017)	SPACE SYSTEMS — CUBE SATELLITES (CUBESATS)	16-07-2023
58	TED/14/22915(Identical To: ISO 10784-1 : 2011)	SPACE SYSTEMS EARLY OPERATIONS PART 1 SPACECRAFT INITIALIZATION AND COMMISSIONING	16-07-2023
59	TED/14/22363(Identical To: ISO 16091: 2018)	SPACE SYSTEMS INTEGRATED LOGISTIC SUPPORT	07-06-2023
60	TED/14/22933(Identical To: ISO 14952-5 : 2003 )	SPACE SYSTEMS - SURFACE CLEANLINESS OF FLUID SYSTEMS - PART 5 : DRYING PROCESSES	27-07-2023
61	TED/14/22951(Identical To: ISO 17689 : 2015 )	SPACE SYSTEMS - INTERFACE CONTROL DOCUMENTS BETWEEN GROUND SYSTEMS GROUND SUPPORT EQUIPMENT AND LAUNCH VEHICLE WITH PAYLOAD	28-07-2023
62	TED/14/22361(Identical To: ISO 14300-1: 2011)	SPACE SYSTEMS PROGRAMME MANAGEMENT PART 1: STRUCTURING OF A PROJECT	28-06-2023
63	TED/14/21437IS 11680: 1986(Identical To: ISO 4147:1997)	AEROSPACE — NUTS, HEXAGONAL, SLOTTED (CASTELLATED), NORMAL HEIGHT, NORMAL ACROSS FLATS, WITH MJ THREADS, CLASSIFICATIONS: 600 MPA (AT AMBIENT TEMPERATURE)/120 DEGREES C, 600 MPA (AT AMBIENT TEMPERATURE)/235 DEGREES C, 900 MPA (AT AMBIENT TEMPERATURE)/425 DEGREES C, 1 100 MPA (AT AMBIENT TEMPERATURE)/235 DEGREES C, 1 100 MPA (AT	23-06-2023

		AMBIENT TEMPERATURE)/315 DEGREES C, 1 100 MPA (AT AMBIENT TEMPERATURE)/650 DEGREES C, 1 210 MPA (AT AMBIENT TEMPERATURE)/730 DEGREES C, 1 250 MPA (AT AMBIENT TEMPERATURE)/235 DEGREES C AND 1 550 MPA (AT AMBIENT TEMPERATURE)/600 DEGREES C ° DIMENSIONS	
64	TED/14/24656(Identical To: ISO 27026: 2023)	Space Systems — Programme Management — Breakdown of Project Management Structures	15-01-2024
65	TED/14/22922(Identical To: ISO 12208 : 2015 )	SPACE SYSTEMS - SPACE ENVIRONMENT (NATURAL AND ARTIFICIAL) - OBSERVED PROTON FLUENCES OVER LONG DURATION AT GEO AND GUIDELINES FOR SELECTION OF CONFIDENCE LEVEL IN STATISTICAL MODEL OF SOLAR PROTON FLUENCES	25-07-2023
66	TED/14/20759IS 7879 : Part 4: 1980	GLOSSARY OF AERONAUTICAL AND ASTRONAUTICAL TERMS PART 4 AERODYNAMICS	10-05-2024
67	TED/14/22366(Identical To: ISO 21349: 2023)	SPACE SYSTEMS PROJECT REVIEWS	08-06-2023
68	TED/14/21429IS 11903: 1986(Identical To: ISO 9475:1994)	AIRCRAFT INNER TUBE AND TUBELESS TYRE VALVES — CORES AND CAPS — TEST METHODS	04-08-2023
69	TED/14/24558IS 12545: 1988(Identical To: ISO 10046: 1996)	Aircraft Methodology of Calculating Cargo Compartment Volumes	05-01-2024
70	TED/14/20708IS 7879 : Part 2: 1975	GLOSSARY OF AERONAUTICAL AND ASTRONAUTICAL TERMS PART 2 MOTION OF AIRCRAFT	10-05-2024
71	TED/14/22975(Identical To: ISO/TR 17400 : 2021 )	SPACE SYSTEMS — SPACE LAUNCH COMPLEXES, INTEGRATION SITES AND OTHER FACILITIES — GENERAL TESTING GUIDELINES	28-07-2023
72	TED/14/22946(Identical To: ISO 16694 : 2015 )	SPACE SYSTEMS — The measured parameters at firing bench and flight tests of liquid rocket engines	31-07-2023
73	TED/14/22931(Identical To: ISO 14952-3 : 2003 )	SPACE SYSTEMS - SURFACE CLEANLINESS OF FLUID SYSTEMS - PART 3 : ANALYTICAL PROCEDURES FOR THE DETERMINATION OF NON VOLATILE RESIDUES AND PARTICULATE CONTAMINATION	27-07-2023
74	TED/14/22943(Identical To: ISO 16457 : 2022)	SPACE ENVIRONMENT (NATURAL AND ARTIFICIAL) — THE EARTH'S IONOSPHERE MODEL —INTERNATIONAL REFERENCE IONOSPHERE (IRI) MODEL AND EXTENSIONS TO THE PLASMASPHERE	28-07-2023
75	TED/14/22949(Identical To: ISO 17540 : 2016 )	SPACE SYSTEMS LIQUID ROCKET ENGINES AND TEST STANDS TERMS AND DEFINITIONS	16-07-2023
76	TED/14/21448IS 6722: 1972(Identical To: ISO 43:2016)	AIRCRAFT —JACKING PADS	04-08-2023

The committee may *DELIBERATE*.

#### **Item 5 Draft Standard/ Amendments for Approval for Wide Circulation**

No draft standard/amendment for approval.

The committee may *NOTE*.

## Item 6 Drafts under Preparation/Circulation

No Document is under Preparation.

The committee may *NOTE*.

## Item 7 Standard/Amendment under Printing

S.No	Document Number	Document Title
1.	TED/14/20723IS 11715 : PART 1: 2011(Identical To: ISO 3353 : Part 1 : 2020)	Aerospace — Lead and Runout Threads Part 1 Rolled External Threads
2.	TED/14/20470IS 13153: 1991(Identical To: ISO 8279:2008)	Aerospace — Nuts, hexagonal, plain, normal height, normal across flats, with MJ threads, classifications: 600 MPa (at ambient temperature)/120 degrees C, 600 MPa (at ambient temperature)/235 degrees C, 900 MPa (at ambient temperature)/425 degrees C, 1 100 MPa (at ambient temperature)/235 degrees C, 1 100 MPa (at ambient temperature)/315 degrees C, 1 100 MPa (at ambient temperature)/650 degrees C, 1 210 MPa (at ambient temperature)/730 degrees C, 1 250 MPa (at ambient temperature)/235 degrees C and 1 550 MPa (at ambient temperature)/600 degrees C - Dimensions
3.	TED/14/19950IS 7263: 1973(Modified/Technically Equivalent To: ISO 44 :1975)	Directions of Operation of Toggle Switches on Aircraft
4.	TED/14/19835IS 7857: 1975(Modified/Technically Equivalent To: 46)	Aircraft — Fuel Nozzle Grounding Plugs and Sockets — Specification
5.	TED/14/21271IS 15192: 2002(Identical To: ISO 8788:2020)	Aerospace — Nuts, metric — Tolerances of form and Position
6.	TED/14/21266IS 11715 : PART 2: 2012(Identical To: ISO 3353-2:2020)	Aerospace - Lead and Runout Threads Part 2 Internal Threads
7.	TED/14/20489IS 13283: 1991(Identical To: ISO 7995:2002)	Aerospace - Nuts, Hexagonal, Self-locking, with MJ Threads, Classifications 1 100 MPa (at Ambient Temperature)/235 °C, 1 100 MPa (at Ambient Temperature)/315 °C and 1 100 MPa (at Ambient Temperature)/ 425 °C — Dimensions
8.	TED/14/19955IS 7264: 1974(Modified/Technically Equivalent To: ISO 45 : 1990)	Aircraft Pressure Refuelling Connection —Dimensions

9.	TED/14/19890IS 6724: 1972(Modified/Technically Equivalent To: ISO 244:1979)	Aircraft Sealing Wire — Specification
10	TED/14/21274IS 15437: 2003(Identical To: ISO 5856:2008)	Aerospace — Screws, 100 Degrees Normal Countersunk Head, Internal Offset Cruciform Ribbed or Unribbed Drive, Normal Shank, Short or Medium Length MJ Threads, Metallic Material, Coated or Uncoated, Strength Classes Less Than or Equal to 1 100 Mpa — Dimensions
11	TED/14/21269IS 15469: 2012(Identical To: ISO 3185:2021)	Aerospace — Bolts, Normal Bihexagonal Head, Normal Shank, Short or Medium Length MJ Threads, Metallic Material, Coated or Uncoated, Strength Classes Less Than or Equal To 1 100 MPA — Dimensions

The committee may *NOTE*.

#### **Item 8 Comments on Published Standards**

No comments received on any standard published by TED 14.

The committee may *NOTE*.

#### **Item 9 New Subjects**

No request received for new subjects.

The committee may *NOTE*.

#### **Item 10 Technical Issues**

No issues are pending at present.

The committee may *NOTE*.

#### **Item 11 International Activities**

BIS being the National Standards Body of India, represents the country at ISO through its National Mirror Committees. "P" membership status reflects the "participating" rights in ISO meetings and submission of comments on ISO documents through voting process on ISO ballots.



**11.1** BIS membership of ISO Technical Committee relevant to working of TED 14 is given as under:

<b>ISO Committee/ Subcommittee</b>	<b>Title</b>	<b>Membership</b>
ISO/TC 20	Aircraft and Space Vehicles	P
ISO/TC 20/SC 1	Aerospace electrical requirements	P
ISO/TC 20/SC 4	Aerospace fastener systems	P
ISO/TC 20/SC 6	Standard atmosphere	P
ISO/TC 20/SC 8	Aerospace terminology	P
ISO/TC 20/SC 9	Air cargo and ground equipment	P
ISO/TC 20/SC 10	Aerospace fluid systems and components	P
ISO/TC 20/SC 13	Space data and information transfer systems	P
ISO/TC 20/SC 14	Space systems and operations	P
ISO/TC 192	Gas Turbines	P

The committee may *NOTE*.

**11.2** Lead members/Experts have been nominated to the TC/SC/WG to co-ordinate the activities related to the group and to examine the ISO documents, keep watch on all ISO activity and give timely feedback to committee on standards under development as following-

<b>ISO Committee/ Subcommittee</b>	<b>Title</b>	<b>Nominated lead members</b>
ISO/TC 20	Aircraft and Space Vehicles	Sh. P. S. Udupa, HAL Sh. N. P. R. Rao, HAL Sh. Bharat Lal, DGCA Sh. Veerendra Kabir, DGCA Sh. R. Kamalakannan, CEMILAC Sh. D.K.P Sinha, ADA Sh. K. V. Rammohan, ADA
ISO/TC 20/SC 1	Aerospace electrical requirements	Sh. P. S. Udupa, HAL Sh. N. P. R. Rao, HAL Sh. D.K.P Sinha, ADA Sh. K. V. Rammohan, ADA
ISO/TC 20/SC 10	Aerospace fluid systems and components	Sh. P. S. Udupa, HAL Sh. N. P. R. Rao, HAL
ISO/TC 20/SC 13	Space data and information transfer systems	ISRO representative

<b>ISO Committee/ Subcommittee</b>	<b>Title</b>	<b>Nominated lead members</b>
ISO/TC 20/SC 14	Space systems and operations	Sh. D.K.P Sinha, ADA Sh. K. V. Rammohan, ADA Sh. D. Nagaraju, GTRE Sh. Manish Saxena, ISRO Sh. Paragjyoti Garg, INSPACE
ISO/TC 20/SC 4	Aerospace fastener systems	Sundaram Fastener representative Ankit Fastener representative Sh. George Suraj, Airbus
ISO/TC 20/SC 6	Standard atmosphere	Sh. R. Kamalakannan, CEMILAC
ISO/TC 20/SC 8	Aerospace terminology	Sh. Kanan Devarasu, NAL Sh. S. Ravishankar, NAL Sh. D.K.P Sinha, ADA Sh. K. V. Rammohan, ADA Sh. Bharat Lal, DGCA Sh. Veerendra Kabir, DGCA Sh. P. S. Udupa, HAL Sh. N. P. R. Rao, HAL
ISO/TC 20/SC 9	Air cargo and ground equipment	Sh. Bharat Lal, DGCA Sh. Veerendra Kabir, DGCA DGAQA representative Mak Contro Coimbatore representative
ISO/TC 192	Gas turbines	Sh. D. Nagaraju, GTRE Sh. Sidana, In personal capacity Sh. P. S. Udupa, HAL Sh. N. P. R. Rao, HAL Sh. D.K.P Sinha, ADA Sh. K. V. Rammohan, ADA

The committee may *REVIEW*.

### **11.2.1 Organization of next plenary meeting of ISO TC 20/SC 14 in India.**

### **11.2.2 Report of Participation in TSO TC 20/SC 14 Plenary held at Berlin by Mr. Parag Jyoti Garg**

## **Item 12 Programme of Work (including periodic review of Indian Standards)**

The program of work of TED 14 can be accessed through following link on e-BIS module-



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The committee may *NOTE*.

## **Item 13 Date and Place of Next Meeting Item**

## **14 Any Other Business**

