

**AGENDA**

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| **17th Meeting****Intelligent Transport Systems Sectional Committee****TED 28 (Hybrid) 17.09.2024, 15:00 PM Onwards** | **Chairperson** **Smt. SUNITA VERMA****Scientist-G, MeitY** | **Member Secretary****Mitra Sen Verma Scientist-D/JD****BIS Headquarters** |

**Item 0 Welcome and Opening Remarks**

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

The last meeting of Sectional Committee (16th Meeting) was held on 20-05-2024. Comments received on the minutes are given at point **2.3**.

*The committee may DISCUSS.*

**Item 2 Scope and Composition of Committee**

* 1. The composition of the committee is enclosed at [Annex -2](#Annex____2).

*The committee may NOTE.*

* 1. Request for co-option has been received from following organizations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S No | Organization | Name of Representative | Email id | Remarks |
| 1 | M/s Engineers India Limited | Sh. Manjit Kumar SahuSh. Manish Singhal | mk.sahu@eil.co.inmanish.singhal@eil.co.in | Email sent on 13-05-2024 seeking their area of interest and reminder to that is also sent vide mail dated 28 Aug 2024. |
| 2 | M/s MassTrans Technologies Pvt Ltd | Sh. Vijay Bhatia | Vijay.bhatia@masstrans.in | Details of Members and area of Expertise received vide Email dated 28-08-2024 and is given below in point 3.2. |
| 3 | M/s Chemito Infotech Pvt Ltd. | Mr. Vishwas PunekarMr. Naresh Mujgude | vpunekar@chemito.netmnareshkumar@chemito.net  | Email has been sent seeking the area of interest. |
| 4.  | M/s Rosmerta Technologies  | Sh. Karn Nagpal Sh. Anshuman Roy | karn.nagpal@rosmertatech.comanshuman.roy@rosmertatech.com | Request received to Include Rosmerta Technologies as the member in VTS Sub-committee (Panel 7), ADAS Sub-Committee (Panel 6), Automatic Vehicle identification and Fare Collection/ Associated FastTag issues (Panel 9) |

As per the decision of the previous SC meeting to include M/s Treel Mobility Solutions, Pune in the committee. Nomination was received from M/s Treel Mobility Solutions, Pune. Email has been sent to them seeking the area of interest/expertise.

*The Committee may DELIBERATE and DECIDE.*

 2.3 Following Nominations were received since the last Sectional Committee Meeting:-

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| --- | --- | --- | --- |
| **Name of the organization** | **Requested by** | **Present/Absent** | **Remarks** |
| ACMA | Sanjay Tank | Present | Updated at Portal |
| Nippon Audiotronix Pvt Ltd | Hitesh Singh Ahuja | Present | Updated at portal as Invitee |
| Rosmerta Technologies | Karn NagpalAnshuman Roy | Present | Updated at Portal |

\* Nippon Wrote a Mail - This is to thank you for organizing the meeting of TED 28 stakeholders which gave us an opportunity to meet you and respected Sunita Maam, both having taken over the respective roles at ITS - TED 28, along with Updation and review of individual subjects while interacting with all stakeholders.

We at Nippon are a leading Tier 1 Supplier of Automotive components to Vehicle OEMs from last over 3 Decades with two state of art manufacturing units at Manesar. Having initiated supplies to Vehicles OEMs with Stereo Systems in early 1990s, we have come a long way and now offer the following product range: Stereo Systems, Central Locking Systems, Telematics devices (OEM specific and AIS 140), Reverse Parking systems, Antennas, ADAS, High end Speakers, etc. with many more products being added in next few years. We are suppliers to almost all Vehicle OEMs in both Passenger and Commercial Vehicle domains.

We have been part of Sectional committee and active participant in sub-committees on VTS (AIS 140), RPAS (AIS 145), ADAS etc. and look forward to working with BIS Panels and contribute for effective standards formulation. Look forward to further interactions and communications

\* Include Rosmerta Technologies as the member in VTS Sub-committee (Panel 7), ADAS Sub-Committee (Panel 6), Automatic Vehicle identification and Fare Collection/ Associated FastTag issues (Panel 9)

2.4 Following nominations and withdrawal requests have been received and updated since last meeting:

|  |  |  |  |
| --- | --- | --- | --- |
| **S No.** | **Organization Name** | **Name of Members** | **Remaks** |
| 1 | CIRT | Shri Tejas S Desale | New Nomination Received  |
| Shri S. Sattigeri | He left the organization so nomination has been withdrawn. |
| 2 | Ministry of Housing and Urban Affairs, New Delhi | Shri R K Singh | Vide Email dated 22 Aug 2024, it is informed that R K Singh left MoHUA. |
| 3 | Robert Bosch Engineering and Business Solutions, Bengaluru | Smt Priyamvadha VembarShri Shashwat Raizada | Vide Email dated 22 Aug 2024 Priyamvadha informed that both of them are no longer involved with the committee. |

*The committee may NOTE*.

 **Item 3 Restructure of Panels/Working Groups**

3.1 The ISO TC 204 is the liaison Committee with TED 28 Sectional Committee. As per the deliberation in last Sectional committee meeting it was decided to adopt more number of ISO standards aligning with Indian conditions. In view of this the working groups are also aligned with the working group of Iso TC 204. The proposed working groups are as under.

|  |  |
| --- | --- |
| **Panel** | **Subject** |
| TED/28/AG 1 | Identifiers |
| TED/28/AG 2 | Operational improvement group (OIG) |
| TED/28/AG 3 | Program coordination |
| TED/28/AG 4 | Publication and marketing review |
| TED/28/JWG 1 | Joint ISO/TC 204 - ISO/IEC JTC1 WG: City data model transportation planning |
| TED/28/WG 1 | Architecture |
| TED/28/WG 2 | ITS geographic data |
| TED/28/WG 3 | Fee and toll collection |
| TED/28/WG 4 | General fleet management and commercial/freight |
| TED/28/WG 5 | Public transport/emergency |
| TED/28/WG 6 | Integrated transport information, management and control |
| TED/28/WG 7 | Traveller information systems |
| TED/28/WG 8 | Vehicle/roadway warning and control systems |
| TED/28/WG 9 | Communications |
| TED/28/WG 10 | Nomadic Devices in ITS Systems |
| TED/28/WG 11 | Cooperative systems |
| TED/28/WG 12 | Mobility integration |
| TED/28/WG 13 | Big Data and Artificial Intelligence supporting ITS |

Committee may please deliberate.

3.2 As per the decision in last sectional committee meeting, the area of interest was short from all the members of sectional committee through email dated 01st July 2024 the inputs received from the members are mapped with respect to each organization. Reminders were also sent vide email dated 23rd August 2024 to the members those have not submitted the area of interest. The details are given below:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **S.No.** | **Organization** | **Member Name** | **Email** | **Identifiers** | **Operational improvement group (OIG)** | **City data model transportation planning** | **Architecture** | **ITS geographic data** | **Fee and toll collection** | **General fleet management and commercial/freight** | **Public transport/emergency** | **Integrated transport information, management and control** | **Traveller information systems** | **Vehicle/roadway warning and control systems** | **Communications** | **Nomadic Devices in ITS Systems** | **Cooperative systems** | **Mobility integration** | **Big Data and Artificial Intelligence supporting ITS** | **Traffic Management** |
| 1 | Ministry of Electronics and Information Technology, New Delhi | SUNITA VERMA | sunita@meity.gov.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2 | AVVRON, Pune | Shri Rangarajan | v.rangarajan@avvron.com |   |  |   |  |  |  |   |   |   |   |  |   |   |   |   |  |  |
| 3 | Ashok Leyland Limited, Chennai | Ved Prakash Gautam | Gautam.vp@Ashokleyland.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4 | Ashok Leyland Limited, Chennai | Shri Ayyappan R S | Ayyappan.RS@ashokleyland.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5 | Ashok Leyland Limited, Chennai | sasikala | sasikala.e@ashokleyland.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6 | Automotive Component Manufactures Association of India, New Delhi | Seema Babal | seema.babal@acma.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7 | Automotive Component Manufactures Association of India, New Delhi | Sanjay Tank | sanjay.tank@acma.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8 | Automotive Research Association of India, Pune | Shri A. A. Deshpande | deshpande.aed@araiindia.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9 | Automotive Research Association of India, Pune | Shri M M Desai | desai.aed@araiindia.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 | Automotive Research Association of India, Pune | Pritesh S Shinkar | shinkar.aed@araiindia.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11 | C-DAC, Thiruvananthapuram | Shri E B Benoy Gopal | benoy@cdac.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12 | C-DAC, Thiruvananthapuram | Shri Satheesh G | satheeshg@cdac.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13 | Castmaster Mobitec India Private Limited, Faridabad | Raju Aggarwal | rajuagarwal@castmaster.com |   |   |   |  |  |   |   |  |   |   |  |  |  |   |   |  |   |
| 14 | Castmaster Mobitec India Private Limited, Faridabad | Rahul Jain | rj@castmaster.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 15 | Central Institute of Road Transport, Pune | Umesh K Suryavanshi | umeshks@cirtindia.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 16 | Central Institute of Road Transport, Pune | Shubhangi Dalvi | shubhangi@cirtindia.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 17 | Central Institute of Road Transport, Pune | Samir S. Sattigeri | samir@cirtindia.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 18 | Delhi Integrated Multi-Modal Transit System Ltd, New Delhi | Alok Sethi | alok.sethi@dimts.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 19 | Delhi Integrated Multi-Modal Transit System Ltd, New Delhi | Abhishek Srivastava | abhishek.srivastava@dimts.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 | Delhi Mumbai Industrial Corridor Development Corporation Limited, New Delhi | P. K. Sarkar | pradipsarkar799@gmail.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 21 | Denso International India Private Limited, Gurugram | Prabhakar | rabhakar\_y@denso.co.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 22 | Denso International India Private Limited, Gurugram | Noel Alexander Peters | peters.noel@suzukimotorcycle.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 23 | Hero Motocorp Limited, New Delhi | Feroz Ali Khan | feroz.khan@heromotocrop.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 24 | Hero Motocorp Limited, New Delhi | Piyush Chowdhry | piyush.chowdhry@heromotocorp.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 25 | Hero Motocorp Limited, New Delhi | Shri Varun Kumar Sharma | varun2.sharma@heromotocorp.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 26 | IL & FS Transportation Networks Limited, Bandra | Shri Jigish Vora | Jigish.vora@ilfsindia.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 27 | Indian Institute of Technology Madras, Chennai | Dr Lelitha Devi | lelitha@iitm.ac.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 28 | Indian Institute of Technology Madras, Chennai | Gitakrishnan Ramadurai | gitakrishnan@iitm.ac.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 29 | Indian Institute of Technology Madras, Chennai | Bhargava Rama Ch | bhargava@civil.iitm.ac.in |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |
| 30 | Institute of Urban Transport India, New Delhi | Ms Sonia Arora IUT | soniaarora@iutindia.org |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 31 | Institute of Urban Transport India, New Delhi | Shri Ankit Pachouri | ankitpachouri@gmail.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 32 | International Centre of Automotive Technology, Manesar | Shri Madhusudan Joshi | madhusudan.joshi@icat.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 33 | International Institute of Information Technology, Bangalore | shri Sachit S. Rao | sachit@iiitb.ac.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 34 | International Institute of Information Technology, Bangalore | Prof Shrisha Rao | shrao@ieee.org |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 35 | LDRA Technology Private Limited, Bengaluru | Shri Shinto Joseph | shinto.joseph@ldra.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 36 | LDRA Technology Private Limited, Bengaluru | Raja Pandian | raja.pandian@ldra.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 37 | LDRA Technology Private Limited, Bengaluru | Deepu Chandran | deepu.chandran@ldra.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 38 | Mahindra and Mahindra Limited, Mumbai | Shri Kulkarni Shailesh | 212355@mahindra.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 39 | Mahindra and Mahindra Limited, Mumbai | Kulkarni Shailesh | kulkarni.shailesh5@mahindra.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 40 | Mahindra and Mahindra Limited, Mumbai | Pathak Pushpanajali | pushpanajalipathak@gmail.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 41 | Mahindra and Mahindra Limited, Mumbai | Shri PONNUSAMY VINOTH | vinoth.ponnusamy@mahindra.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 42 | Maruti Suzuki India Limited, Gurugram | Gururaj Ravi | gururaj.ravi@maruti.co.in |   |  |   |  |  |  |   |  |  |   |  |  |  |  |  |  |  |
| 43 | Maruti Suzuki India Limited, Gurugram | Shri Sumit Kumar | sumitkumar@maruti.co.in |   |  |   |  |  |  |   |  |  |   |  |  |  |  |  |  |  |
| 44 | Maruti Suzuki India Limited, Gurugram | Ms. Buvaneswari M | m.buvaneswari@maruti.co.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 45 | Minda Industries Limited, Gurugram | Rahul Malik | rmalik@mindagroup.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 46 | Minda Industries Limited, Gurugram | Kiran Palve | kpalve@mindagroup.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 47 | Ministry of Electronics and Information Technology, New Delhi | Kamlesh Kumar | kr.kamlesh@meity.gov.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 48 | Ministry of Heavy Industries and Public Enterprises, Department of Heavy Industry, New Delhi | Sushil Lakra | slakra@nic.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 49 | Ministry of Housing and Urban Affairs, New Delhi | R K Singh | rknarwal66@gmail.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 50 | Ministry of Road Transport and Highways, New Delhi | Dharkat R Luikang | dharkat@nic.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 51 | Narnix Technolabs Private Limited, New Delhi | Narang N Kishore | kishor@narnix.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 52 | National Highways Authority of India, New Delhi | Akhilesh Kumar Srivastava | aksrivastava@nhai.org |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 53 | National Highways Authority of India, New Delhi | Deepak Saxena | deepaksaxena@nhai.org |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 54 | National Informatics Centre, New Delhi | Mahesh Chandra |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 55 | National Informatics Centre, New Delhi | Gautam Ghosh | ggh@nic.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 56 | NextGen Knowledge Solutions Private Limited, New Delhi | Taron Mohan | taron@nextgentele.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 57 | NextGen Knowledge Solutions Private Limited, New Delhi | Abhishek Kumar | abhishek.kumar@nextgentele.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 58 | Renault Nissan Technology and Business Centre India Private Limited, Chennai | Rajendra Khile | rajendra.khile@rntbci.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 59 | Renault Nissan Technology and Business Centre India Private Limited, Chennai | Vijay Dinakaran | vijay.dinakaran@rntbci.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 60 | Renault Nissan Technology and Business Centre India Private Limited, Chennai | Jebin Jowhar | jebin-jowhar.pullurshangattil@rntbci.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 61 | Robert Bosch Engineering and Business Solutions, Bengaluru | Smt Priyamvadha Vembar | Priyamvadha.vembar@bosch.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 62 | Robert Bosch Engineering and Business Solutions, Bengaluru | Shri Shashwat Raizada | shashwat.raizada@bosch.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 63 | Rosmerta Technologies Limited, Gurugram | Shri Karan Nagpal | karn.nagpal@rosmertatech.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 64 | Rosmerta Technologies Limited, Gurugram | Shri Anshuman Roy | anshuman.roy@rosmertatech.com |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |   |   |
| 65 | School of Planning and Architecture, New Delhi | Vinay Maitri | vmaitri@gmail.com |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66 | Seconded European Standardization Expert for India (SESEI), New Delhi | Dinesh Chand Sharma | dinesh.chand.sharma@sesei.eu |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 67 | Seconded European Standardization Expert for India (SESEI), New Delhi | Shri Nitin Sharma | nitin.sharma@sesei.eu |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 68 | Society of Indian Automobile Manufacturers (SIAM), Delhi | Amit Kumar | amit@siam.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 69 | Society of Indian Automobile Manufacturers (SIAM), Delhi | Prashant Kumar Banerjee | pkbanerjee@siam.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 70 | Tata Motors Limited, Pune | Shri Pallipalayam Gowrishankar | p.gowrishankar@tatamotors.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 71 | Tata Motors Limited, Pune | Namrata Deb | namrata.deb@tatamotors.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 72 | Tata Motors Limited, Pune | Shweta Jahagirdar | shweta.jahagirdar@tatamotors.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 73 | Telecommunication Engineering Center, New Delhi | Sushil Kumar | sushil.kumar20@gov.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 74 | Toyota Kirloskar Motor Private Limited, Bidadi | Raju. M | rajum@toyota-kirloskar.co.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 75 | Toyota Kirloskar Motor Private Limited, Bidadi | Shri Vijeth Gatty | vijeth\_gatty@toyota-kirloskar.co.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 76 | Volvo Group India Private Limited, Bengaluru | Shri Pramod Kumar Hugar | pramodkumar.hugar@volvo.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 77 | Volvo Group India Private Limited, Bengaluru | Shri Jayesh Tendulkar | jayesh.tendulkar@volvo.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 78 | international Centre for Automotive Technology, Manesar | Shri Sonu Kumar Sudrania | sonu.sudrania@icat.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 79 | international Centre for Automotive Technology, Manesar | Praval Sharma | praval.sharma@icat.in |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 80 | In Personal Capacity, New Delhi | SHRIKANT HARAGAPURKAR | shrikant.22856@gmail.com |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 81 | MassTrans Technologies Pvt Ltd | Shashank Pandhere | Shashank.pandhare@masstrans.in |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82 | MassTrans Technologies Pvt Ltd | Shraddha Bendale | Shraddha.bandake@masstrans.in |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 83 | MassTrans Technologies Pvt Ltd | Amar Mohite | Amar.mohite@masstrans.in |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Committee may please deliberate

**Item 4 Issues Arising out of Previous Meetings**

The summary of actions taken along with present status on the decisions taken during the last meeting is given below:

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| **S.****No.** | **Panel** | **Decision during 14th Meeting** | **Members** | **Decisions in Previous meetings** | **Action taken since the last meeting** |
| 1 | TED 28/P1Panel on Bus ITS | 1. Panel may discuss new subjects relevant for BUS in consultation with DIMTs and also take up following new topics .
	1. Driver Hour Regulation
	2. Digital Tachograph Smart Second Generation
	3. Driver Behavior System
2. Sh. Raju Agarwal, M/s Castmaster Mobitech India Pvt Ltd will put up a note/draft on L0 level ADAS for bus.
3. Sh. Prashant Tiwari (DIMTS) volunteered to put up draft paper on standardization of back- end for cameras fitted in

bus. | 1. **ICAT (Dr. M Joshi) -**

**Convener**1. M/s Castmaster Mobitech Pvt Ltd (Sh. Raju Agarwal)
2. ASRTU
3. Volvo Bus
4. Ashok Leyland
5. Tata Motors
6. DIMTS- Sh. Prashant Tiwari
7. C-DAC
 | **Status on 15th meeting:** Panel meetings were held on 01.07.2023 and16.08.2023. The meeting minutes of first meeting were discussed. are enclosed at [Annex-3](#Annex_3). Action to be taken as discussed during meeting dt. 16.08.2023 are enclosed at Annex-4.*The committee may NOTE.* | **Decision in 16th Meeting**Shri Raju Agarwal submitted that the panel meeting to be conducted in structured manner and next panel meeting to be decided in Sectional committee meeting itself. It was also submitted that the members of the panel meeting to be given specific responsibilities to come up with some ideas, technical inputs for discussion in panel and convener to collate the information and bring to the SC meeting. There was a deliberation in the panel meeting that the standards are made by AIS or BIS and it was agreed that the standards will be made by BIS. Shri Raju Agarwal and other members of the panel were requested to list out the agenda points to priorities the work in the panel meeting to submit the recommendation to next TC meeting. Committee decided that the respective panels would identify relevant AIS standards for conversion to Indian Standards.**Current Status**A panel Meeting was held on 20.06.2024 Minutes are attached for reference. *Convenor may kindly apprise the progress please.*  |
| **Decision in 15th Meeting**-C-DAC & MeitY requestedfor some time to put up thedraft on various solutions.Convener to coordinateThe committee requestedSIAM to nominate interestedparticipants for this panel.**Status on 16th Meeting:** A panel meeting was held on 12 March 2024.The details are given below.Deliberation in panel meeting on 12 March 2024:It was agreed that an umbrella standard is to be drafted for Bus ITS, which will include thegeneric description of Bus ITS architecture.• Initially this umbrella standard will refer all the existing standards on various technologiesof ITS which are already available like LED Destination Board Standard (LDBS) andAutomatic Tracking Devices (ATD) etc. And, in future subsequent other technologystandards may be included (or may be referred) as and when they are notified.• M/s. Castmaster Mobility (Mr. Raju Agarwal) will lead this activity with the support of M/s.Tata Motors, M/s. Ashok Leyland & one ACMA member (to be nominated by Mr. SanjayTank).• Draft umbrella standard to be finalized within 1 month from the date of this meetingThe committee may DELIBERATE*The committee may DELIBERATE* |
| 2 | TED 28/P2Panel on Traffic Management | P-draft prepared by CDAC on the subject was already circulated. It was decided that a panel under MEITY (Mrs. Sunita Verma) may now transform it into a BIS Standard. | **a**. **MEITY – Convener****b.** CDAC**c**. DIMTS**d**. ICAT**e**. AVVRON**f.** BIS | **Status on 15th Meeting:** The draft submitted by the panel is enclosed at [Annex-5](#Annex_5).The committee may consider the document for wide circulation.**Decision in 15th Meeting**-The committee decided to wide circulate the document for 60 days.**Status on 16th Meeting**:The document TED 28 (21134) completed WC stage in Jan 2024 and no technical comment received. F Draft is prepared. *The committee may DELIBERATE.* | **Decision in 16th Meeting**: Committee deliberated on the document TED 28 (21134) and members submitted that the requirement of components is restrictive at some points w.r.to technology. Committee decided that DIMTS and CDAC would prepare the documents by incorporating the component specification and submit the documents to BIS within 10 days. Member Secretary shall circulate the document in WC for 30 days. Further, Committee decided that if no comments are received on draft document within the circulation period, document to be processed for Printing and authorized Member Secretary to carry out editorial corrections, if any**Current Status**Document was obtained from C-DAC & placed in WC dated 30/08/2024.*Committee may please deliberate.* |

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| 3 | TED 28/P3Panel on RPAS | a. BIS to send formal communication to MoRTH to notify the RPAS standard in CMVR.2-It was pointed out that Camera used in RPAS has to comply with two standards i.e., IS 616 and IS 17270. Panel may like to suitably amend RPAS standard as deem fit along with any other commentsfrom industry. | a.**ICAT (Dr. M Joshi) -****Convener**b. M/s Castmaster Mobitech Pvt Ltd (Sh.Raju Agarwal)c. AVVRON1. D. Masstrans Technologies Pvt Ltd
 | **Status on 15th Meeting:** Panel meeting was held on 01.07.2023. The minutes are enclosed at [Annex-3](#Annex_3). | **Decision in 16th Meeting**:Committee deliberated and decided that the convener of the panel would conduct a meeting within 15 days and submit the recommendation within a month for taking up in the next TC meeting. **Current Status**A Panel meeting was held on 20.06.2024. [minutes](file:///C%3A%5CUsers%5Cmitra%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CIE%5CNL3ASEP4%5CMoM%20of%20Joint%20%28ICAT%29%20Panel%20Meeting%20%28TED-28%29%20%281%29.pdf) of the meeting is attached for the reference.*Convenor of the Panel may kindly apprise the progress*. |
| *The committee may NOTE.***Decision in 15th Meeting:**Member secretary informed that a panel meeting was held on 06.09.2023. Only one comment i.e., Pulse in load dump test is yet to be resolved. Dr. Madhusudan Joshi informed that the comment needs to be examined. The committee requested members from Mahindra to discuss the comment with Dr. Joshi and to organize a panel meeting at the earliest to finalize the issue**Status on 16th Meeting**:A panel meeting was held on 12 March 2024. The details are given below.Pannel Meeting: 12 March 2024Comments on “Pulse in load dump test” from M/s. Mahindra & Mahindra wasrediscussed.• M/s. MSIL informed to the members that in this regard a letter has been shared to BISfrom SIAM which includes the gist of M/s. Mahindra & Mahindra comment.• It was decided that BIS to share the same letter with all the members or to ICAT and ICATwill further circulate it to all the members.• All members to review the said letter & revert with their comments within 15 days fromthe date of receiving the letter.• Mr. Mahendra from Nippon to share his comments to all members for review and will bediscussed in next panel meeting. Letter of SIAM attached.*The committee may DELIBERATE* |
| 4 | TED 28/P4Traveller Information System | It was decided to put up P- draft based on the working draft already circulated to members. DIMTS may take it forward in a panel meeting as per interest shown by new members. | **a. Sh. Alok Sethi, DIMTS – Convener****b.** IIT Madras**c.** ASRTUd. Dr. P K Sarkare. ICATf. AVVRONg. VOLVOh. Narnix Technolabs Pvt Ltdi. Ashok Leylandj. BIS | **Status on 15th Meeting:** Panel meeting is planned on 01.09.2023. Discussion of the panel meeting will be circulated after the meeting.*The committee may NOTE.***Decision in 15th Meeting:**C-DAC and MeitY were requested to work on the draft submitted by DIMTS on Traveler Information Systems. The committee requested to submit the draft in 2 months. Chairman will review the status after two months.**Status on 16th Meeting:** C-DAC and MeitY may kindly apprise the progress.Committee may DELEBERATE. | **Decision in 16th Meeting**:Shri Kamlesh Kumar, MeitY apprised the progress to the committee. Committee deliberated and decided that the document prepared by MeitY and CDAC to be shared in the panel with a copy to BIS. Panel will convene a meeting within 10 days and submit their recommendation for taking up in next TC meeting. **Current Status***Convener of the panel may kindly apprise the progress.*  |
| 5 | TED 28/P5Role of ITS in Autonomous System | SIAM (Mr.Khile-Renault) gave a detailed presentation on the review of ISO standards and mentioned that most of the standards pertains to autonomous vehicles and few on Highway related safety. Since we are not yet ready for autonomous vehicles, we may defer the deliberation for the time being. But highway related issues should be taken up. Dr.Sikdar from IRF was requested to head the panelfor the purpose. Mr.Khile was requested to share the presentation to be circulated along with minutes.It was decided to identify ISO standards that can be adopted or indigenous standard may be developed on basis of these ISO standards.BIS may assist Dr.Sikdar with documents as may be required by his panel. | 1. **Dr. P K Sarkar – Convener**
2. Representative from NHAI
3. Ministry of Electronics and Information Technology
4. Shri Rajinder Khile
5. ICAT
6. AVVRON
7. IL & FS Transport Networks Limited
8. Sh. Alok Sethi, DIMTS
 | **Status on 15th Meeting:** As per presentation by Sh. Rajinder Khile, following ISO standards have been identified for adoption:1. ISO 15638-16:20142. ISO/TS 20684-10:20213. ISO 21219-19:20234. ISO/TS 21219-21:2018(under revision in FDIS stage) 5. ISO 14814:20066. ISO 14815:20057. ISO 14816:20058. ISO/TR 13184-1:20139. ISO 13184-2:201610. ISO 13184-3:201711. ISO/TR 19083-1:201612. ISO/TR 18317:201713. ISO/TS 18234-4:200614. ISO/TS 18234-5:200615. ISO/TS 18234-6:200616. ISO/TS 18234-8:201217. ISO 14827- 2:202218. ISO 14827-3:201919. ISO/TS 17429:201720. ISO/TR 17427-8:2015*The committee may DELIBERATE***Decision in 15th Meeting:**The committee decided to arrange a panel meeting to discuss the adoption of the standards. The committee decided to co-opt M/s Mahindra & Mahindra, C-DAC & MeitY in the panel and to assign Sh. Kamlesh Kumar, MeitY as convener.**Status on 16th Meeting:** ConvenerSh. Kamlesh Kumar, Meit may kindly apprise the progress.*The committee may DELIBERATE* | **Decision in 16th Meeting**: Committee deliberated on the composition of the panel and decided to appoint Prof. P K Sarkar as a new convener of the panel P5. During meeting M/s Maruti, M/s TATA, M/s Mahindra & Mahindra shown interest to contribute in the panel which was agreed to by the committee.Committee decided that the panel will review the published ISO standards under ISO TC 204 and submit a report in next SC meeting for adoption. **Current Status**Two Meetings were conducted on [20.08.2024](file:///C%3A%5CUsers%5Cmitra%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CIE%5CNL3ASEP4%5CPanel%205%20MOM%2020.08.2024.pdf) and 28.08.2024 minutes of the meetings are attached for reference,*Panel convenor may kindly apprise the progress.* |

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| 6 | TED 28/P6Panel on ADAS | ICAT had circulated the draft based on ECE/ISO documents, to all the members on which comments were invited. SIAM members brought to the notice that AISC has also subsequently set up panels on the subject.Therefore, deliberation at two places should be avoided. It was pointed out by the chairman that BIS panel had been working on it for a long time as may be seen from the previous minutes. BIS (Mr.R.R.Singh) pointed out that once BIS has initiated the work on a standard,AISC should not proceed further but their panel members should offer comments on the draft already circulated. Making AIS standard and then notifying it and there after converting it in to BIS and again giving grace periodfor implementation is a circuitous route and should | 1. **ICAT (Dr. M Joshi) -**

**Convener**1. Ministry of Electronics and Information Technology
2. Dr. P K Sarkar
3. Automotive Component Manufacturers Association of India (ACMA)
4. Automotive Research Association of India, (ARAI)
5. Sh. Alok Sethi, DIMTS
6. Robert Bosch Engineering & Business Solutions Pvt. Ltd.
7. Nippon Audiotronix
8. Maruti Suzuki India Ltd.
9. Ashok Leyland
10. Aptiv
11. Continental
12. DENSO
13. UNO MINDA
14. M/s Castmaster Mobitech Pvt Ltd (Sh. Raju Agarwal)
15. Panasonic
 | Draft was circulated to stakeholders for their comments.The submission received from ARAI & SIAM is enclosed at Annex-6.The committee may DELIBERATE. **Status on 16thMeeting:*****Panel Meeting: 12 March 2024***Members suggested that respective AIS standards to be adopted as IS standards.• Convenor of the panel informed that TED panel has already made efforts to create these standards based on EU standards and same were shared with ARAI for their comments.• BIS to check whether any comments received from ARAI or not on ADAS standards.In the meantime, ARAI has shared a list of respective AIS standard which are underformulation and are in draft stage.• BIS to internally discussed with Head BIS and update it to the panel convenor whether panels have to follow the AIS as it is or the drafts created based on EU standards & modified based as per India conditions to be followed. | **Decision in 16th Meeting**: Committee deliberated and decided that the decision of TEDC regarding transfer of subject to be circulated to panel. Panel to go through the scope of the panel and identify the AIS standards for adoption in to Indian Standards for deliberation in next SC meeting. **Current Status**The decision for transfer of subject is not yet finalized.*Committee may please note.* |

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|  |  | not be followed. We should directly make BIS standard on which draft has already been circulated. Chairman also pointed out that he had checked from ARAI and informed that no draft has had been prepared by them. AISC panel should therefore offer its comments on the same before the next meeting. Panel may finalise the standards based on inputs received.In addition to existing members, MeITYand Bosch were added to Panel. |  | *The committee may DELIBERATE* |  |
| 7 | TED 28/P8Panel on ‘Automatic Vehicle Identification and fare collection/ associated FasTagissues’ | Panel to deliberate on RFID Application for School buses and to decide whether to make an amendment the existing standard or to publish it as part of the standard. | 1. **ICAT – Convener**
2. ARAI
3. ASRTU
4. Dr. P K Sarkar
5. M/s CastMaster Mobitech India Pvt Ltd
6. BIS
 | **Status on 15th Meeting:** The panel meetings were held on 01.07.2023 and 28.08.2023. The meeting minutes of first meeting are enclosed at Annex-3. Action to be taken as discussed during meeting dt. 28.08.2023 are enclosed at Annex-7.*The committee may NOTE.***Decision in 15th Meeting:**A panel meeting was held on the subject and following was decided: 1. It was decided to develop this standard as Annexure to IS 16833. 2. The title of the Annexure to be renamed as 'Student Safety System for School Buses in Transit'. 3. A white paper on Driver behaviour to be put up by Sh. Raju Agrawal and Sh. Kush Mehrotra along with ICAT & Dr. P K Sarkar. (Time period -8 weeks) 4. It was decided to remove the annexure of UHF RFID based application and only HF RFID Application to be considered. 5. It was decided to specify frequency as 13.56 MHz for HF application During the meeting, Dr. P K Sarkar submitted that UHF RFID tags are being used in Sharjah and submitted a presentation on the same. He also requested the committee to make the use of camera as optional, instead of removing it. The committee DECIDED to hold a panel meeting at the earliest to resolve this submission and to finalize the draft.**Status on 16th Meeting:*****Panel meeting: 12 March 2024***ICAT to provide status update to the panel and if any deliberations are required, that willtake place in next panel meeting.*The committee may DELIBERATE* | **Decision in 16th Meeting**:The committee deliberated on 'Student Safety System for School Buses in Transit' in length and decided to take up this as R&D project. The outcome of the project will be discussed in the committee for further drafting as Indian Standard.**Current Status**TOR has been prepared and sent to concerned department for further action.The project may be taken up in 3rd phase.*Committee may please note.* |
| 8 | TED 28/P10Panel on E- Ticketing | Draft prepared by Mr. Taron Mohan was discussed and it was decided that panel under MEITY may now give it a shape of BIS standard. | 1. **Ministry of Electronics and Information Technology - Convenor**
2. STQC
3. ICAT
4. C-DAC
5. SIAM
6. Sh Taron Mohan, Nextgen Telesolutions Pvt.

Ltd | **Status on 15th Meeting:** The panel may update the action taken.**Decision in 15th Meeting:**It was understood that CDAC was doing some work in this area. The committee requested MeitY to take this subject forward and submit the draft within 2 months. Chairman will review the same after that.**Status on 16th Meeting:** MeitY may kindly update the status.*The committee may DELIBERATE* | **Decision in 16th Meeting:**Committee deliberated and decided that panel to submit the draft within 15 days. BIS to circulate the P-draft to committee members for 30 days. The comments received on the circulated document to be presented in next SC for further deliberation. **Current Status**P-Draft to be obtained from MeitY.*Committee may Please deliberate.* |
| 9 | TED 28/P12Panel on TPMS | BIS to organize a separate meeting to discuss the comments received under |  |  |  |

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|  |  | the chairmanship of Mr.Bhanot . It was decided to invite members who have commented on the standard. | 1. **ICAT (Dr M Joshi - Convener)**
2. SIAM
3. Automotive Component Manufacturers Association of India (ACMA)
4. ARAI
5. Sh. Alok Sethi, DIMTS
6. Deptt of Telecommunications, Ministry of Communications
7. Triton Valves
8. Robert Bosch Engineering & Business Solutions Pvt. Ltd.
9. Continental
10. Sensata
11. Renesas
12. NXP
 | **Decision in 15th Meeting:**It was pointed out that there were still some pending issues which need to be resolved. BIS was requested to arrange the panel meeting quicky to sort out the same. The committee decided to co opt M/s Maruti Suzuki India Ltd, M/s Mahindra & Mahindra, Sh. Raju Agrawal, M/s Renault Nissan in the panel.**Status on 16th Meeting:**• ICAT to provide status update to the panel and if any deliberations are required, that willtake place in next panel meeting.• ICAT to circulate the M/s. Renault Nissan comments to all panel members for review.Deliberation on same will take place in next panel meeting.*The committee may DELIBERATE.* | **Decision in 16th Meeting:**Committee deliberated on the convenorship of the panel and felt that Shri Madhusudan Joshi, ICAT is handling many panels and also preoccupied with many other works. To speed up the work Shri Sonu Kumar Sudrana, ICAT is given the responsibility as convener of the panel. Convener of the panel would convene a meeting within 15 days to resolve the issue and submit recommendation within 1 month for taking up in next SC meeting. **Current Status**A Panel meeting was held on 20.06.2024. [minutes](file:///C%3A%5CUsers%5Cmitra%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CIE%5CNL3ASEP4%5CMoM%20of%20Joint%20%28ICAT%29%20Panel%20Meeting%20%28TED-28%29%20%281%29.pdf) of the meeting is attached for the reference.*Convenor of the Panel may kindly apprise the progress*. |
| 10 | TED 28/P13Panel on Road Traffic Safety Management Systems | It was decided to put up working draft on following:1. Incident Recorder.:- ICAT (Mr. Shitikant Paddy)
2. Demand Management:- Sh. Alok Sethi
3. Driver Support and Monitoring:- Mr.Shrikant Haragapurkar, Sh. Alok Sethi & Dr. M. Joshi (with representative from Map My India), ARAI (Sh. Manoj Desai)
4. Fleet and Transport Management:- MeITY,

ASRTU, C-DAC, Dr. P.K.Sarkar, Sh. Alok Sethi | 1. **Dr. P K Sarkar-**

**Convener**1. ICAT (Sh. Shitikant Paddy)
2. Alok Sethi
3. Sh. Shrikant Hargapurkar
4. ICAT (Dr. Madhusudan Joshi)
5. ARAI (Sh. Manoj Desai)
6. MeITY
7. ASRTU
8. C-DAC
9. Map My India
 | **Decision in 15th Meeting:**a. The committeedecided to drop theDemandManagement subject.b. Sh. Alok Sethi wasrequested to put up adraft on Fleet andTransportManagement.c. Further decision onIncident recorder andDriver support &monitoring will betaken once the draftis submitted by CDAC.**Status on 16th Meeting:** Convener may kindly update the progress.*The committee may DELIBERATE* | **Decision in 16th Meeting:**Convener of the panel convene a meeting within 15 days and submit draft documents with panel recommendation within 1 month for taking up in next SC meeting. **Current Status**This subject is taken over by TED 35 and is no longer represents this committee.  |
| 11 | TED 28:01Sub- committee on VTS | It was noted that BIS 16833 stadard had been made long back but yet to be notified under CMVR. BIS to write to MoRTH to notify this standard CMVR in place of AIS 140 asap. It was also pointed out that | 1. **ICAT (Dr. M Joshi) -**

**Convener**1. ARAI
2. M/s CastMaster Mobitech India Pvt Ltd
3. DIMTS
4. KPIT
5. Tranxit MLPL
 | **Status on 15th Meeting:** Meeting of Sub-committee on VTS was held on 22.06.2022. The meeting minutes are enclosed atAnnex -9**Decision in 15th Meeting:**The committee decided to hold a sub-committee meeting at the earliest.**Status on 16th Meeting:** Convener may kindly update the progress.*The committee may DELIBERATE* | **Decision in 16th Meeting:**Convener of the panel would convene a meeting within 15 days and submit draft documents with sub-committee recommendation within 1 month for taking up in next SC meeting. The request of Shri Rupesh, CDAC to be a part of sub-committee was agreed. Committee also agreed the request of M/s TATA Motors and M/s Maruti as a part of sub-committee.It is also decided that Shri Kamlesh Kumar, MeitY will co-ordinate to organize the sub-committee meeting within 15 days. |

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|  |  | different states are being followed in different standards.Dr. M. Joshi informed that certain testing requirements are to be reviewed and the sub- committee will be putting a draft amendment in onemonth time. |  |  | **Current Status**A Panel meeting was held on 20.06.2024. [minutes](file:///C%3A%5CUsers%5Cmitra%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CIE%5CNL3ASEP4%5CMoM%20of%20Joint%20%28ICAT%29%20Panel%20Meeting%20%28TED-28%29%20%281%29.pdf) of the meeting is attached for the reference.*Convenor of the Panel may kindly apprise the progress*. |

*The committee may DELIBERATE on further course of action.*

**Item 5 Draft Standards/Amendments for Finalization**

No Draft Standard/Amendment is pending for approval for Finalization.

Committee may *NOTE.*

**Item 6 Draft Standards/Amendments for Approval for Wide Circulation**

No Draft Standard/Amendment is pending for Approval.

The committee may *NOTE.*

**Item 7 Drafts under Preparation**

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| Document No. | Document Title | Doc Type | Priority | Document Stage |
|  TED/28/24224 | LED Destination Board System for Buses - Specification Amendment - 3 | Amendment | 2 | WC-Draft |
|  [TED/28/21134](https://www.services.bis.gov.in/php/BIS_2.0/StandardsFormulationV2/Upload3.php?ID=ZGd4MTB0SFZvTTErSGxDbVFzdnlhdz09) | Intelligent Traffic Management System Components General Specifications | New | 3 | WC-Draft |

The committee may *NOTE*.

**Item 8 Comments on Published Standards**

Comment was received on published standards (IS 17270:2019) which are as under:

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| **Current Text** | **Proposed Text** | **Remarks** |
|  | The following degrees of protection in accordance with IS/IEC 60529: 2001 shall be provided:1. IP 4X for parts to be fitted in the passenger compartment
2. IP 42 for parts to be fitted in the passenger compartment of roadsters/convertibles and cars with moveable roof-panels if the installation location requires a higher degree of protection than IP 4X;
3. IP 54 for all other parts.
 | In-line with current practice of UN R116/ AIS 076.Supplier may submit a declaration regarding area of placement to test agency while submitting the component for evaluation.Ongoing evaluation practice of AIS 076 may follow. |

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| **Current Text** | **Proposed Text** | **Remarks** |
|  | **C-2.6 Load Dump Test Pulse 5a**As per standard ISO 16750-2 :For 12 V System: A Voltage spike of 65V, 4 Ω, 200 ms For 24 V System: A Voltage spike of 123V, 8 Ω, 200 ms*Acceptance Criteria:* Device shall meet functional class A as per ISO 7637-2: 2004. After test, the device shall meet functional class A.Note : Load Dump Test Pulse 5a is not applicable if the system is equipped with Centralized Suppressor. A declaration may be submitted by the supplier in this regard. Test agency may validate the same during Vehicle type approval. | In-line with discussion in Last TED 28 Sub panel meeting. |

Committee may please deliberate.

**Item 9 New Subjects**

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| **S.No** | **Proposal ID** | **Subject** | **Name of Proposer** | **Date of Receipt** | **Status** |
| 1 |    [2473\_202404041919\_112348](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/new_proposal/New_proposal/proposaldetails/MjQ3Mw%3D%3D) | Software update and Software updates management system | Inteligent Transport System | 19-04-2024 | Proposal Allocated |
| 2 |    [2472\_202404041919\_111856](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/new_proposal/New_proposal/proposaldetails/MjQ3Mg%3D%3D) | Cyber Security and Cyber Security management system | Inteligent Transport System | 19-04-2024 | Proposal Allocated |

These are the NWIPs received and have been allocated to Member Secretary for further action.

The subjects are taken up in separate sectional committee, therefore these topics may be dropped.

The committee may *NOTE.*

**Item 10 Technical Issues**

No issues are pending at present.

The committee may please *NOTE.*

**Item 11 International Activities**

 No meetings were attended or organized.

*The committee may NOTE.*

**11.2** Following were nominated to attend the ISO TC 204 meetings:

* + 1. Smt Sunita Verma, Chairman, TED 28
		2. Sh. Madhusudan Joshi, ICAT
		3. Sh. Kamlesh Kumar, MeitY
		4. Sh. Mitra Sen Verma, Sc-D/JD, Member Secretary TED 28

The committee may *Note/Deliberate.*

**11.4** The next meeting of ISO TC 204 is scheduled to be held on 24 & 25 October 2024 at Cambridge (United States).

*The committee may NOTE & DISCUSS.*

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

Following standard is due for review:

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| IS 15754 : 2006ISO 21214 : 2006 | Intelligent transport systems - Continuous airinterface, long and medium range (CALM) - Infra - Red systems | ISO 21214:2006 has been revised as ISO 21214:2015.It is proposed to revise the standard and adopt the latest version. |

**Item 13 Panel on TED/28/ISO TC 204**

Committee may nominate the suitable members to the respective working groups under ISOTC 204 for addressing the issues (Such as comment on draft document identification of new subjects for proposal in respective groups of ISO etc.) in the respective working groups for the given Panel:

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| --- | --- | --- | --- |
| **Working Group** | **Title of Working Group** | **Nominated Members** |  |
| WG 1 | ArchitectureAbout WG: WG 1 develops standards for common information and methods in the ITS sector, including shared terminology, the standardization of data representation formats, architectures for sharing service and system concepts, as well as risk assessment methods and the benefits of services. | Narang KishorC. Krishna Kumar Vinay Maitri Alok Sethi | 1. Sh. Narang Kishor has informed that he wish to continue in WG 1.
2. Dr Vinay Maitri has informed that he wish to continue in WG 1.
3. Dr. P K Sarkar has desired to be a part of WG 1.
 |
| WG 3 | ITS database technologyAbout WG: WG 3 looks into standardizing exchange formats between geographic data providers, as well as compact storage formats, allowing high-speed searching and location reference methods, etc. It has also worked on developing functional requirement specifications, data models, and data elements for geographic data. WG 3 has limited its scope to static geographic data for many years, but currently seeks to include dynamic spatio-temporal information in its scope. | Madhusudhan JoshiC. Krishna Kumar |  |
| WG 5 | Fee and toll collectionAbout WG: WG 5 works on standardizing Electronic Fee Collection (EFC), which includes ETC (Electronic Toll Collection) as well as all other charging and settlement types such as tolls for roads, fees for parking lots and ferries. | C. Krishna Kumar V RangarajanAkhilesh Kumar SrivastavaJigish Vora | 1. Sh. Ranagarajan has informed that he wish to continue in WG 5. |
| WG 7 | General fleet management and commercial/freightAbout WG: Under WG 7, the transport of hazardous goods and freight multi-modal transport have been standardized. Specific work items being discussed for standardization include the operational monitoring of commercial freight vehicles, data dictionary andmessage sets for international multi-modal transport, and commercial freight vehicle monitoring. | V.P. Gautam Vinay Maitri | 1. Dr Vinay Maitri has informed that he wish to continue in WG 7. |
| WG 8 | Public transport/emergencyAbout WG: WG 8 is responsible for thestandardization of public transport. Public transport includes buses, trains, trams and emergency vehicles | Madhusudhan JoshiAlok Sethi Shivam Aggarwal | 1. Smt. Sonia Arora has informed that she wish to continue in WG 8. |
| WG 9 | Integrated transport information, management andcontrolAbout WG: WG 9 works on the standardization of traffic management (traffic information and control, etc.) Specifically, it is working on the systematization of information and standardization of communication systems between traffic management centers, between centers and roadside modules, and between roadside modules, to enable efficient data exchange and to provide information to outside organizations. | Sonia AroraC. Krishna Kumar Vinay Maitri Alok Sethi | 1. Smt. Sonia Arora has informed

that she wish to continue in WG 9.1. Dr Vinay Maitri has informed that he wish to continue in WG 9.
 |
| WG 10 | Traveller information systemsAbout WG: This working group has work items designed to study data dictionaries and message sets to provide information to drivers through various communication media, such as FM broadcasting, DSRC, and digital broadcasting. Recently, the Transport Protocol Experts Group (TPEG) has stepped up its UML modeling activities. | Vinay MaitriP.K. Sarkar Alok Sethi | 1. Dr Vinay Maitri has informed

that he wish to continue in WG 10.1. Dr P K Sarkar has informed that he wish to continue in WG 10.
 |
| WG 14 | Vehicle/roadway warning and control systemAbout WG: WG 14 is working on the standardization of driving control technology to reduce driver workload, improve convenience, raise awarenessof danger, prevent accidents and mitigate damage using advanced technologies. Vehicles equipped with systems such as Adaptive Cruise Control (ACC) and Forward Vehicle Collision Mitigation Systems(FVCMS) are already available on the market. | Dhruba Sarma Jigish Vora |  |
| WG 16 | Wide area communications/protocols and interfacesAbout WG: WG 16 is involved in standardizing the communication systems used in ITS. This working group holds discussions on the CALM systems used in ITS communication and the DSRC (Dedicated Short Range Communications), as well as on probe data systems. | B BhanotMadhusudhan Joshi Narang Kishor Sushil Kumar Shrisha RaoAlok Sethi | 1. Sh. Narang Kishor has informedthat he wish to continue in WG 16. |
| WG 17 | Nomadic Devices in ITS Systems | C. Krishna KumarDhruba Sarma |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | About WG: This working group is in charge ofdeveloping standards targeting ITS services using nomadic devices such as smartphones and portable navigation devices which are rapidly disseminating worldwide. It covers the standardization of vehicle interfaces, guidance protocols for safety assistance systems, and services that provide information to travelers. |  |  |
| WG 18 | Cooperative SystemsAbout WG: Cooperative ITS integrates vehicle-to- vehicle (V2V), vehicle-to infrastructure (V2I) and infrastructure-to-infrastructure(I2I) communications, and simultaneously supports extensive ITS services via the communications system. | Himalaya BansalC. Krishna Kumar Shashwat Raizada V RangarajanPriyamvadha VembarJigish Vora | 1. Dr. P K Sarkar has desired to be a part of WG 18.
2. Sh. Kamlesh Kumar, MeITY Dr. has desired to be a part of WG 18.
 |
| WG 19 | Mobility IntegrationAbout WG: The purpose of the working group is defining international standard for mobility integration but it does not include the work items that fall into the scope of existing working groups. WG19 acts collaboratively and works on the items that cannot be performed by other working groups.The scope of the working group is broad, including not just urban but also inter-urban mobility. | Sonia AroraB Bhanot | 1. Smt. Sonia Arora has informed

that she wish to continue in WG 19.1. Dr. P K Sarkar has desired to be a part of WG 19.
2. Sh. Kamlesh Kumar, MeITY Dr. has desired to be a part of WG 19.
 |
| WG 20 | Big Data and Artificial Intelligence supporting ITS | No nomination from India | 1. Smt. Sonia Arora has desired to be a part of WG 20.
2. Sh. Kamlesh Kumar, MeITY Dr. has desired to be a part of WG 20.
 |

ISO TC 241 Road Traffic Safety Management Systems

|  |  |  |  |
| --- | --- | --- | --- |
| **Working Group** | **Title of Working Group** | **Nominated Members** |  |
| WG 4 | Marketing | Sh. Madhusudan Joshi | Proposal to add Dr. P K Sarkar & Sh. Shivam Aggarwal to WG. |
| WG 6 | Guidance on ethical considerations relating toautonomous vehicles | Dr. P K SarkarSh. Taron MohanSh. Shivam Aggarwal |  |
|  |
| WG 7 | Development of ISO 39004 | No members nominated from India | Proposal to add Dr. P K Sarkar & Sh. Shivam Aggarwal to WG. |

 The committee may *DELIBERATE.*

**Item 12 Date and Place of Next Meeting**

The date and place of next meeting may be decided.

**Item 13 Any Other Business**

Any other business may be discussed.

**[ANNEX 2](#Annex_2)**

(*Foreword*)

#### COMMITTEE COMPOSITION

**INTELLIGENT TRANSPORT SYSTEMS SECTIONAL COMMITTEE, TED 28**

|  |  |  |
| --- | --- | --- |
| **14th Meeting** | **13th May 2022** | **Virtual** |
| **15th Meeting** | **7th September 2023** | **Virtual** |
| **16th Meeting** | **20th May 2024** | **Hybrid (NIT, Delhi)** |

| **Sl.****No.** | **NAME OF THE ORGANIZATION** | **REPRESENTED BY**Principal member (P)Alternate member (A) | **ATTENDANCE OF THE LAST THREE MEETINGS** |
| --- | --- | --- | --- |
| **14th** | **15th**  | **16th**  | **Total** |
|  |  IN PERSONAL CAPACITY | Smt. Sunita Verma **(Chairperson)** | - | - | Y | 1/1 |
|  | Avvron, Pune | Shri Rangarajan (P) | Y | N | Y | 2/3 |
|  | Ashok Leyland Limited, Chennai | Shri Ved Prakash Gautam (P) Shri Ayyappan R S (A)Smt. Sasikala (YP) | Y | - | Y | 2/2 |
|  | Automotive Component Manufactures Association Of India, New Delhi | Shri Sanjay Tank (P)Ms. Seema Babal (A) | Y | Y | N | 2/3 |
|  | Automotive Research Association of India, Pune | Shri A. A. Deshpande (P) Shri M M Desai (A)Shri Pritesh S Shinkar (YP) | Y | Y | Y | 3/3 |
|  | C-DAC, Thiruvananthapuram | Shri Satheesh G (P)Shri E B Benoy Gopal (A) | - | - | Y | 1/1 |
|  | Castmaster Mobitec India Private Limited, Faridabad | Shri Rahul Jain (P)Shri Raju Aggarwal (A)  | Y | Y | Y | 3/3 |
|  | Central Institute of Road Transport, Pune | Shri Samir S. Sattigeri (P)Shri Umesh K S (A) Shri Shubhangi Dalvi (A) | Y | N | N | 1/3 |
|  | Delhi Integrated Multi-Modal Transit System Ltd, New Delhi | Alok Sethi (P)Abhishek Srivastava (A) | Y | Y | Y | 3/3 |
|  | Delhi Mumbai Industrial Corridor Development Corporation Limited, New Delhi |  Dr. P. K. Sarkar (P) | Y | Y | Y | 3/3 |
|  | Denso International India Private Limited, Gurugram | Noel Alexander Peters (P)Shri Prabhakar (A) | Y | N | Y | 2/3 |
|  | Hero Motocorp Limited, New Delhi | Shri Feroz Ali Khan (P)Shri Piyush Chowdhry (A) Shri Varun Kumar Sharma (YP) | Y | Y |  Y |  3/3 |
|  | IL & FS Transportation Networks Limited, Bandra | Shri Jigish Vora (P) | Y | Y | N | 3/3 |
|  | Indian Institute of Technology Madras, Chennai | Dr. Lelitha Devi (A)Dr. Gitakrishnan Ramadurai (A) | Y | N | N | 1/3 |
|  | Institute of Urban Transport India, New Delhi | Ms. Sonia Arora IUT (A) Shri Ankit Pachouri (A) | N | N | N | 0/3 |
|  | International Centre of Automotive Technology, Manesar | Shri Madhusudan Joshi (P)Shri Sonu Kumar Sudrania (A)Shri Praval Sharma (A) | Y | Y | Y | 3/3 |
|  | International Institute of Information Technology, Bangalore | Prof. Shrisha Rao (P)Shri Sachit S. Rao (A)  | N | N | N | 0/3 |
|  | LDRA Technology Private Limited, Bengaluru | Shri Shinto Joseph (P) Shri Raja Pandian (P)Ms. Deepu Chandran (A) | Y | Y | Y | 3/3 |
|  | Mahindra and Mahindra Limited, Mumbai | Shri Ponnusamy Vinoth (P)Shri Kulkarni Shailesh (A)Smt Pathak Pushpanajali | - | - | Y | 1/1 |
|  | Maruti Suzuki India Limited, Gurugram | Shri Gururaj Ravi (A) Ms. Buvaneswari M (A)Shri Sumit Kumar (Y) | Y | Y | Y | 3/3 |
|  | Minda Industries Limited, Gurugram | Shri Rahul Malik (P) Shri Kiran Palve (A) | N | Y | N | 1/3 |
|  | Ministry of Electronics and Information Technology, New Delhi | Smt. Sunita Verma (P)Shri Kamlesh Kumar (A) | Y | Y | Y | 3/3 |
|  | Ministry of Heavy Industries And Public Enterprises, | Shri Sushil Lakra (P) | N | N | N | 0/3 |
|  | Ministry of Housing and Urban Affairs, New Delhi | Shri R K Singh (A) | N | N | N | 0/3 |
|  | Ministry of Road Transport and Highways, New Delhi | Shri Dharkat R Luikang (P) | N | N | N | 0/3 |
|  | Narnix Technolabs Private Limited, New Delhi | Shri Kishor N. Narang (P) | Y | N | Y | 2/3 |
|  | National Highways Authority of India, New Delhi | Shri Akhilesh Kumar Srivastava (P)Shri Deepak Saxena (A) | N | N | N | 0/3 |
|  | National Informatics Centre, New Delhi | Shri Mahesh Chandra (P) Shri Gautam Ghosh (A) | N | N | N | 0/3 |
|  | Nextgen Knowledge Solutions Private Limited, New Delhi | Shri Taron Mohan (P) Shri Abhishek Kumar (A) | Y | N | N | 1/3 |
|  | Renault Nissan Technology And Business Centre India Private Limited, Chennai | Shri Rajendra Khile (P)Shri Vijay Dinakaran (A)Jebin Jowhar Pulloorshangattil (A) | - | Y | Y | 2/2 |
|  | Robert Bosch Engineering and Business Solutions, Bengaluru | Smt. Priyamvadha Vembar (P) Shri Shashwat Raizada (A) | Y | Y | N | 2/3 |
|  | Rosmerta Technologies Limited, Gurugram | Shri Karan Nagpal (P)Shri Anshuman Roy (A)  | Y | Y | Y | 3/3 |
|  | School of Planning and Architecture, New Delhi | Shri Vinay Maitri (P) | N | N | N | 0/3 |
|  | Seconded European Standardization Expert For India (SESEI), New Delhi | Shri Dinesh Chand Sharma (P) Shri Nitin Sharma (A) | Y | N | N | 1/3 |
|  | Society of Indian Automobile Manufacturers (Siam), Delhi | Shri Prashant Kumar Banerjee (P)Shri Amit Kumar (A) | Y | Y | Y | 3/3 |
|  | Tata Motors Limited, Pune | Shri Prasanta Sarkar (P) Shri Gowrishankar P. S. (A) | Y | Y | Y | 3/3 |
|  | Telecommunication Engineering Center, New Delhi | Shri Sushil Kumar (P) | N | N | N | 0/3 |
|  | Toyota Kirloskar Motor Private Limited, Bidadi | Shri Raju. M (A) Shri Vijeth Gatty (A) | Y | Y | Y | 3/3 |
|  | Volvo Group India Private Limited, Bengaluru | Shri Jayesh Tendulkar (P)Shri Pramod Kumar Hugar (A)  | Y | N | N | 1/3 |
|  | In Personal Capacity | Shri Shrikant Haragapurkar (P) | N | N | N | 0/0 |