

MEETING	DATE & TIME	VENUE
15th meeting of Industrial Automation Systems and Robotics Sectional Committee, PGD 18	10:30 AM - 01:00 PM   Monday, August 21, 2023	<a href="https://bismanak.webex.com/bismanak/j.php?MTID=m703b2504f306c898618ebebc61d9a88e">https://bismanak.webex.com/bismanak/j.php?MTID=m703b2504f306c898618ebebc61d9a88e</a> Meeting No. 2515 198 2828 Password : mbWD3W2r3Mg

**CHAIRMAN:** Shri Manoj Belgaonkar, GM (Regulations, Standards and Quality Management), Siemens India Limited, Mumbai

**MEMBER SECRETARY:** Shri Kundan Giri, Scientist-C/ Deputy Director, PGD, BIS, New Delhi

#### MEMBERS PRESENT

S. No	Name of representative	Name of the Organization
1.	Dr Rajesh Kumar	Addverb Technologies Limited, Noida
2.	Dr Yuvraj Nitin	Bhabha Atomic Research Center, Radiation Medicine Centre, Mumbai
3.	Dr Amaren P Das	Board of Radiation & Isotope Technology, Mumbai
4.	Dr Amit Thakur	Bhabha Atomic Research Centre, Mumbai
5.	Shri Ganesh kumar	Bharat heavy Electricals limited
6.	Shri Prashant Katkar	Bosch Rexorth India Limited, Ahmedabad
7.	Dr K Mohanavelu	Defence Bio-Engineering and Electromedical Laboratory, Ministry of Defence, Bengaluru
8.	Prof Gurvinder Virk (invitee)	Endoenergy Systems Pvt Ltd
9.	Shri Sanjeev K Pandey	Endoenergy Systems Pvt Ltd
10.	Shri Vivek Kr. Singh	Genious Bro Private Limited, Noida
11.	Prof M Singaperumal	In PERSONAL CAPACITY
12.	Prof Vineet Vashista	Indian Institute of Technology, Gandhinagar
13.	Dr Vibhor Pandhare	Indian Institute of Technology, Indore
14.	Prof T Asokan	Indian Institute of Technology, Madras
15.	Shri Rajendran Menon	Rockwell Automation India Private Limited, Mumbai
16.	Shri Girish Alawe	Schmersal India Private Limited, Pune
17.	Shri Yogesh Kamath	Siemens India ltd
18.	Shri Himadri Sekhar Paul	Tata Consultancy Services Limited, Mumbai
19.	Shri Tushar Baviskar	Tata Motors Limited, Pune
20.	Shri Ramesh Kulkarni	Tata Motors Limited, Pune
21.	Prof Shantipal S Ohol	The Robotics Society of India, Chennai
22.	Shri Yogesh Agarwal	Timetooth technologies Private Limited, Noida
23.	Prof Ashish Mathur	UPES University, Dehradun
24.	Shri Chandrakant Bhardwaj	Zeno Health, Mumbai

#### Item 0. GENERAL

##### 0.1 Welcome address by the Head (Production and General Engineering Department)

Shri Kundan Giri, Scientist C & Member Secretary on behalf of Bureau of Indian Standards, welcomed the Chairman and all the members present in the meeting. He apprised the members about the recent developments in the production and general engineering department and BIS. In his comprehensive update

		nominated as Indian Experts in ISO/TC 184/SC 4/WG 3 for working on ISO 15926 series of standards and ISO/TC 184/SC 4/WG 26 for working on Industrial Data Ontology.
3.	<p><b>Performance Criteria for Legged Robots</b> – ISO has informed that the first meeting of ISO TC /299/ WG 10 is scheduled on 7 September 2023, the following organizations may also be included in the working group from India as per requests received:</p> <p>1&gt; Addverb Technologies Pvt Ltd</p>	<p>The committee deliberated on the importance of India’s participation in the formulation of International standard for Industrial legged robots and also decided to add the following members as Indian experts in ISO/TC 299/WG 10</p> <p>a) Dr. Rajesh Kumar, Addverb Technologies Limited, Noida  b) Shri Rajendran Menon, Rockwell Automation Ltd.  c) Shri Kundan Giri, BIS</p>

#### ITEM 4 COMPOSITION OF THE SECTIONAL COMMITTEE

4.1 The committee noted the information given in the Agenda.

4.2 The committee noted the information given in the Agenda.

4.3 The committee reviewed the composition and decided to co-opt the following organisations as the member of the sectional committee or sub committees as per details given in the agenda:

- a) Addverb Technologies Pvt Ltd, Noida
- b) Semantic Data Engineering Group, Siemens India
- c) Genius Bro Pvt Ltd, Noida
- d) Institute of Technology Indore
- e) Endoenergy Systems Pvt Ltd, Mohali
- f) T&D Electronic Systems, Ludhiana
- g) Zeno Health, Mumbai
- h) Indian Institute of Technology, Gandhinagar
- i) UPES University, Dehradun

Presentations were given by some nominated members from above organisations about their work. The details of the members nominated will be sent by the above organization to the member secretary in the BIS nomination proforma for continued participation.

#### ITEM 5 FINALISATION OF WIDE CIRCULATED DOCUMENTS FOR PUBLICATION

S.N	Documents	Title	Status before the meeting	Decision of the committee
1	PGD/18/22173 (Identical To: ISO 8000-140)	Data Quality Part 140: Master data: Exchange of	The documents were wide-circulated for review on 12 April 2023 for a period of 60	Based on the comments received from the members the committee

		characteristic data: Completeness	days as per the decision of the committee in the last meeting.	finalized all the 23 documents for
2	PGD/18/22168 (Identical To: ISO 8000-66 : 2021 )	Data Quality Part 66: Data quality management: Assessment indicators for data processing in manufacturing operations	No comments have been received during the WC, the committee may approve for publication of these documents as Indian Standards.	publication as Indian Standards.
3	PGD/18/22161 (Identical To: 8000-8 : 2015 )	Data Quality Part 8: Information and data quality: Concepts and measuring		
4	PGD/18/22181 (Identical To: ISO 8000-130 : 2016 )	Data Quality Part 130: Master data: Exchange of characteristic data: Accuracy		
5	PGD/18/22176 (Identical To: ISO 8000-311 : 2012 )	Data Quality Part 311: Guidance for the application of product data quality for shape PDQ-S		
6	PGD/18/22171 (Identical To: ISO 8000-110 : 2021 )	Data Quality Part 110: Master data: Exchange of characteristic data: Syntax semantic encoding and conformance to data specification		
7	PGD/18/22166 (Identical To: ISO 8000-63 : 2019 )	Data Quality Part 63: Data quality management: Process measurement		
8	PGD/18/22179 (Identical To: ISO 8000-65 : 2020 )	Data Quality Part 65: Data quality management: Process measurement questionnaire		
9	PGD/18/22158 (Identical To: ISO 8000-1 : 2022)	Data Quality Part 1: Overview		
10	PGD/18/22174 (Identical To: ISO 8000-116 : 2019 )	Data Quality Part 116: Master data: Exchange of quality identifiers: Application of ISISO 8000-115 to authoritative legal entity identifiers		
11	PGD/18/22169 (Identical To:	Data Quality Part 100: Master data: Exchange of		

	ISO 8000-100 : 2022 )	characteristic data: Overview		
12	PGD/18/22182 IS 14662: 2018 (Identical To: ISO 8373 : 2021)	Robotics -Vocabulary		
13	PGD/18/22177 (Identical To: ISO 8000-82 : 2022 )	Data Quality Part 82: Data quality assessment: Creating data rules		
14	PGD/18/22163 (Identical To: ISO 8000-61 : 2016 )	Data Quality Part 61: Data quality management: Process reference model		
15	PGD/18/22172 (Identical To: ISO 8000-115 : 2018 )	Data Quality Part 115: Master data: Exchange of quality identifiers: Syntactic semantic and resolution requirements		
16	PGD/18/22167 (Identical To: ISO 8000-64 : 2022 )	Data Quality Part 64: Data quality management: Organizational process maturity assessment: Application of the Test Process Improvement method		
17	PGD/18/22159 (Identical To: ISO 8000-2 : 2022 )	Data Quality Part 2: Vocabulary		
18	PGD/18/22180 (Identical To: ISO 8000-60 : 2017 )	Data Quality Part 60: Data quality management: Overview		
19	PGD/18/22175 (Identical To: ISO 8000-120 : 2016 )	Data Quality Part 120: Master data: Exchange of characteristic data: Provenance		
20	PGD/18/22170 (Identical To: ISO 8000-150)	Data Quality Part 150: Data quality management: Roles and responsibilities		
21	PGD/18/22183 IS 15291: 2003 (Identical To:	Robots for industrial environments Automatic end effector exchange systems Vocabulary		

	ISO 11593 : 2022)			
22	PGD/18/22165 (Identical To: ISO 8000-62 : 2022 )	Data Quality Part 62: Data quality management: Organizational process maturity assessment: Application of standards relating to process assessment		
23	PGD/18/22178 (Identical To: ISO 8000-81 : 2021 )	Data Quality Part 81: Data quality assessment: Profiling		

## ITEM 6 REVIEW/REAFFIRMATION OF PUBLISHED INDIAN STANDARDS

6.1 The committee noted the information given in the Agenda.

6.2 The committee deliberated upon the list of standards due for periodic review and decided as follows:

S.No.	IS No	Title	Status of Base Standard	Decision of the Committee
1.	IS 16608 : 2018 / ISO 13482 : 2014	Robots and robotic devices - Safety requirements for personal care robots	ISO/CD 13482	The committee decided that it will participate to develop the standard and see if it can be adopted as Indian Standard as well. The work of review of the latest version has been assigned to Prof M Singaperumal who will recommend whether the new version should be adopted without any change or it will be required to be modified.
2.	IS 17192 (Part 1) : 2019 / ISO 18646-1	Robotics - Performance Criteria and Related Test Methods for Service Robots Part 1 Locomotion for Wheeled Robots	Reaffirmed by ISO in 2022	The committee has already reviewed the previous standard and since no need for change has been reported by any member, it was decided to reaffirm the standard without any change.