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[Minutes of 19<sup>th</sup> MEETING OF CUTTING TOOLS SECTIONAL COMMITTEE, PGD 32  
30st November 2023



कार्यसूची

**MINUTES**

**19<sup>th</sup> MEETING OF CUTTING TOOLS SECTIONAL COMMITTEE, PGD 32**

**MONDAY, 30<sup>ST</sup> NOVEMBER 2023**

**HYBRID MEETING( PHYSICAL + VIRTUAL)**

**VENUE: BIS HEADQUARTER, NEW DELHI**



भारतीय मानक ब्यूरो  
मानक भवन ,9 बहादुर शाह जफर मार्ग  
नई दिल्ली – 110002

**BUREAU OF INDIAN STANDARDS**  
**Ministry of Consumer Affairs Food & Public Distribution**  
**Govt. of India**

**BUREAU OF INDIAN STANDARD**

The National Body of India

**Production and General Engineering Department (PGD)****MINUTES****19TH MEETING OF CUTTING TOOLS SECTIONAL COMMITTEE, PGD 32**

DAY & DATE	TIME	VENUE
Thursday, 30 <sup>st</sup> November, 2023	11:00 am	Hybrid meeting( physical +virtual) BIS Headquarter, New delhi

<b>Meetinglink:</b>	<a href="https://bismanak.webex.com/bismanak/j.php?MTID=m1393e0e40408faa1003de70282ea8de6">https://bismanak.webex.com/bismanak/j.php?MTID=m1393e0e40408faa1003de70282ea8de6</a>
<b>MeetingID:</b>	2515 151 9571
<b>Password:</b>	20112023

**CHAIRMAN:** Shri S Gnanasekaran, GM (Rtd.), Addison & Company Limited, Kanchipuram

**MEMBER SECRETARY:** Shri Hemant Singh Negi, Scientist- B (PGD), BIS, New Delhi

**MEMBERS PRESENT**

1)	Sh. K V Subba Reddy	Expert In Personal Capacity
2)	Sh. S. Santhosh	Birla Precision Technologies Limited
3)	Sh. Rajesh Shinde	Birla Precision Technologies Limited
4)	Sh. Umesh Chaube	Alfa Precision Technologies Private Limited
5)	Sh. Manish Shah	Dormer Pramet Limited
6)	Sh. M.H. Rao	SQAEGS, Chennai

7)	<b>Sh. Chandresh Vyas</b>	<b>BIPICO Industries Private Limited</b>
8)	<b>Sh. Avinash HS</b>	<b>HMT Machine Tools Limited, Bengaluru</b>
9)	<b>Sh. Murali</b>	<b>Principal Director, CITD</b>
10)	<b>Sh. J Bramheswaraiah</b>	<b>CITD</b>
11)	<b>Sh. Mahesh Todkar</b>	<b>Kennametal India Limited, Bengaluru</b>
12)	<b>Sh. V. Ravichandran</b>	<b>Addison &amp; Co. Ltd, Chennai</b>
13)	<b>Smt. Saroj Nayagam</b>	<b>Addison &amp; Co. Ltd, Chennai</b>
14)	<b>Sh. Abhijeet Patil</b>	<b>Tata Motors, Pune</b>
15)	<b>Sh. APN Prabhakaran</b>	<b>Bosch Limited, Bengaluru</b>
16)	<b>Sh. M. Ravi</b>	<b>BHEL, Haridwar</b>

## **Item 0. General**

### **0.1 Welcome by the Member Secretary**

Shri Hemant Singh Negi, Member Secretary of the Cutting Tools Sectional Committee PGD 32, welcomed the chairman and members of the committee for participation in the 19<sup>th</sup> meeting of Cutting Tools Sectional Committee. He informed the Committee regarding training programs for the Members and the Young Professionals at BIS Training Institute i.e. National Institute for Standardisation (NITS) Noida. He requested the members to consciously review and revise the old standards of the Committee and update them. He stressed that the working of the Committees should be gender-responsive and futuristic based on the technological and market needs and proactive which is the need of the hour. He further emphasised that we should also be proactive in finding the right stakeholders to deliberate in the formulation of the standards. He informed the committee members regarding the recent reforms taken by BIS in standard formulation activity. He informed members about the MoUs signed by BIS with premier academic institutions for involving faculty and research scholars in the R&D projects approved by the sectional committees. He informed members about new policy of standard formulation which states that no new standard should be formulated or existing standard reviewed without an ARP or R&D project unless the data and information available is sufficient and does not warrant any further research. He also informed members about policy of archiving of the standard, which have lost relevance due to diminishing use. He also impressed upon members to be proactive in the Committee work so that

new subjects for standards formulation can be taken up. At last, he thanked all the members for sparing their valuable time and present in the meeting.

## **0.2 Opening remarks by the Chairman**

Sh. S. Gnanasekaran extended a cordial welcome to all Committee Members in attendance, recognising their valuable contributions to the committee work. Emphasising the importance of knowledge sharing, he encouraged committee members who had not attended the training program of BIS in NITS, Noida to avail the opportunity as the training program aims to educate the committee members about reforms and new initiatives taken by BIS in standardization work. Acknowledging the diverse nature of the cutting tool industry, he highlighted the presence of members from various divisions in the meeting. He also emphasised that this diversity brings a wealth of perspectives to the committee which increases the collective knowledge base. He also encouraged the members to actively engage in the committee's work by providing inputs during the developmental stages of standards, including Preliminary drafts and Wide circulation drafts and ballots circulated by ISO. He also encouraged the committee members to identify areas in their expertise where existing standards may need revision. He also invited members to suggest and take up revisions of standards where necessity is felt. He encouraged members to propose new work items in the committee meetings which can be helpful in fostering innovation and development within the cutting tools sector in India. At last, he expressed optimism for a productive meeting, thanking the members for their dedication to advancing the standards of the sectional committee.

### **Item 1. CONFIRMATION OF MINUTES OF LAST MEETING**

The minutes of the 18<sup>th</sup> meeting of Cutting Tools Sectional Committee, PGD 32 was held on 5<sup>th</sup> June 2023 at Manak Bhawan, BIS New Delhi-110002 through videoconferencing [WebEx] were uploaded in the portal on 8<sup>th</sup> July 2023.

Since no comments have been received, Committee formally confirmed the minutes of the meeting.

### **Item 2 REFORMS IN THE PROCESS OF STANDARDISATION**

Committee noted the given information.

### **Item 3 SCOPE AND COMPOSITION OF COMMITTEE**

**3.1** The committee discussed the attendance of the committee members and decided to withdraw the nomination of following members due to regular non attendance in the committee meetings.

- a) M/s Indian Telephone Industries Limited, Bengaluru.
- b) M/s Jainex Aamcol Limited, Aurangabad
- c) Sh. C Venkatesh ( Expert in personal capacity)
- d) Sh. Shujayat Khan ( Expert in personal capacity)
- e) M/s Komet precision tools private limited, New Delhi
- f) Directorate of standardization.
- g) Combat Vehicles Research and Development Establishment, Ministry of Defence, Chennai.

**3.2** The committee noted the information given in the agenda.

#### Item 4 DRAFT STANDARDS FOR FINALIZATION

Following drafts have successfully completed wide circulation stage and no comments are received. **Committee decided to finalize the following draft without changes and send for publication.**

Sl.No	Doc. No.	Doc. Title
4.1	PGD 32 (23079)	Indexable inserts for cutting tools designation
4.2	PGD 32 (23083)	Cylindrical Shanks for Milling cutters: Part 2- Dimensional characteristics of flatted cylindrical shanks
4.3	PGD 32 (23118)	Rotary and rotary impact masonry drill bits with hard metal tips - dimensions
4.4	PGD 32 (23116)	Single point cutting tools -corner radii
4.5	PGD 32 (23679)	Twist drills extra-long morse taper shank- Specification
4.6	PGD 32 (23680)	Twist drills extra-long parallel shank- specification
4.7	PGD 32 (22453)	Classification and application of hard cutting materials for metal removal with defined cutting edges- Designation of the main groups and groups of application
4.8	PGD 32 (23711)	Hard metal burrs: Part 12 inverted cone burrs style N

#### Item 5 DRAFTS UNDER WIDE CIRCULATION

Following drafts are under wide circulation stage. Committee decided that if no comments are received during the wide circulation stage, **Member Secretary, in consultation with the chairman, will finalize the draft and send for publication.**

Sl.No	Doc. No.	Doc. Title
5.1	PGD 32 (23217)	Indexable hard metal carbide inserts with wiper edges without fixing hole-Dimensions
5.2	PGD 32 (22523)	Metal cutting bandsaw blade: Part 2- Characteristics and dimensions
5.3	PGD 32 (23663)	Indexable hard material inserts with rounded corners with partly cylindrical fixing - Hole dimensions
5.4	PGD 32 (23095)	Tool shanks with 7/24 taper for automatic tool changers: Part 3- Retention knobs for shanks of forms AC AD AF UC UD UF JD AND JF
5.5	PGD 32 (23700)	Hard metal burrs: Part 3-Cylindrical round- ball- nose burrs style C
5.6	PGD 32 (23704)	Hard metal burrs: Part 7- Arch pointed-nose burrs style G
5.7	PGD 32 (23697)	Hard metal burrs part- 1 general specifications

5.8	PGD 32 (23707)	Hard metal burrs: Part 10 conical round- ball- nose burrs style l
5.9	PGD 32 (23701)	Hard metal burrs: Part 4 spherical burrs style D
5.10	PGD 32 (23709)	Hard metal burrs: Part 11 conical pointed-nose burrs style M
5.11	PGD 32 (23705)	Hard metal burrs: Part 8 flame burrs style H
5.12	PGD 32 (23699)	Hard metal burrs part 2 cylindrical burrs style A
5.13	PGD 32 (23702)	Hard metal burrs: Part 5 oval burrs style E
5.14	PGD 32 (23703)	Hard metal burrs part 6 arch round- ball- nose burrs style F
5.15	PGD 32 (23706)	Hard metal burrs part 9 60 and 90 cone burrs styles J and K

### Item 6 DRAFTS UNDER PREPARATION

Committee noted the information given in the item 6 of agenda.

### Item 7 NEW SUBJECTS

Committee noted the information given in item no. 7 of agenda and following decision were taken in the meeting.

SL NO.	ISO NO. & TITLE	REASONING	Decision taken in the meeting
7.1	ISO 8830: 1991 High-speed steel machine taps with ground threads	Describes material and hardness, cutting geometry, run-out tolerances, and the marking. Applies to standard taps	<b>Sh. Manish Shah from M/s Dormer Pramet</b> has voluntarily agreed to study the ISO 8830:1991 standard and he will submit his input/comments regarding adoption of ISO 8830:1991 to Member Secretary within 1 month. Member Secretary will forward the soft copy of ISO 8830:1991 to Sh. Manish Shah.
7.2	ISO 237: 1975 Rotating tools with parallel shanks diameters of shanks and sizes of driving squares	Applies to reamers, screwing taps, etc. It comprise two series of dimensions. The complete range of diameters is divided into a certain number of diameter steps. In the metric tables, the values of the across flats of the squares and the preferred diameters are scaled in accordance with the R20 series of preferred numbers. In the inch tables, these values are exact conversions of the corresponding metric values.	<b>Sh. S. Santhosh from M/s Birla Precision Technologies</b> has voluntarily agreed to study the ISO 237:1975 standard and he will submit his input/comments regarding adoption of ISO 237:1975 to Member Secretary within 1 month. Member Secretary will forward

			soft copy of ISO 237:1975 to Sh. S. Santhosh.
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## Item 8 INTERNATIONAL ACTIVITIES

Committee noted the information given in the agenda.

## Item 9 PROGRAMME OF WORK

9.1 Committee noted the information given in the agenda.

### 9.2 Review of Indian Standards

#### 9.2.1. Harmonizing Indian standards with ISO Standards.

Following pre 2000 Indian standard can be revised by harmonizing with corresponding ISO Standards. Following committee members, during the meeting, have voluntarily agreed to provide inputs/comments regarding harmonization of following IS standards with corresponding ISO standards, as mentioned in the table, to the Member Secretary within 1 month.

IS NO.	IS TITLE	CORRESPONDING ISO STANDARD	DECISION TAKEN IN THE MEETING
IS 13742 (Part 1) : 1993	Carbide tipped single point tools ISO series: Part 1 straight turning tool (ISO 1 ) - Specification	ISO 243:2014	<p><b>Sh. V Ravichandran from M/s Addison &amp; Co. Limited, Chennai</b> has voluntarily agreed to provide inputs/comments on harmonizing of <b>IS 13742: Part 1 to 9</b> with corresponding ISO standards, as mentioned in the table, to Member secretary <b>within 1 month.</b></p>
IS 13742 (Part 3) : 1993	Carbide tipped single point tools - ISO series: Part 3 cranked finishing tool (ISO 3) - Specification	ISO 243:2014	
IS 13742 (Part 4) : 1993	Carbide tipped single point tools - ISO series: Part 4 broad turning tool (ISO 4) - Specification	ISO 243:2014	
IS 13742 (Part 5) : 1993	Carbide tips Part 5 carbide tips twist drills with point angle 115 degree - Specification	ISO 243:2014	
IS 13742 (Part 6) : 1993	Carbide tipped single point tool ISO series: Part 6 cranked turning tool (ISO 6) - Specification	ISO 243:2014	
IS 13742 (Part 7) : 1993	Carbide tipped single point tools ISO series: Part 7 parting off tool (ISO 7) - Specification	ISO 243:2014	
IS 13742 (Part 8) : 1993	Carbide tipped single point tools - ISO series: Part 8 boring tool (ISO 8) - Specification	ISO 514:2014	
IS 13742 (Part 9) : 1993	Carbide tipped single point tools - ISO series: Part 9 boring and facing tool (ISO 9) - Specification	ISO 514:2014	

IS 6175 (Part 1) : 1992	Screwing taps: Part 1 hand and short machine screwing taps for ISO metric screw threads sizes m1 to m2.5 - Specification (Second Revision)	ISO 529:2017	<p><b>Smt. Saroj Nayagam from M/s Addison &amp; Co. Ltd, Chennai</b> has voluntarily agreed to provide inputs/comments on harmonizing of IS <b>6175: Part 1,2</b> with corresponding ISO standards, as mentioned in the table, to Member secretary within 1 month.</p>
IS 6175 (Part 2) : 1992	Screwing taps: Part 2 hand and short machine screwing taps for ISO metric screw threads sizes m3 to m10 - Specification (Second Revision)	ISO 529:2017	
IS 6175 (Part 3) : 1992	Screwing taps: Part 3 hand and short machine screwing taps for ISO metric screw threads sizes m3 to m68 with coarse pitches and m3 to m100 with fine pitches - Specification (Second Revision)	ISO 529:2017	<p><b>Sh. Mahesh Todkar from M/s Kennametal India limited, Bengaluru</b> and has voluntarily agreed to provide inputs/comments on harmonizing of IS <b>6175: Part 3</b> with corresponding ISO standards, as mentioned in the table, to Member secretary within 1 month.</p>
IS 6175 (Part 4) : 1991	Screwing taps: Part 4 long shank machine screwing taps for ISO metric screw threads sizes from m3 to m24 - Specification	ISO 2283:2000	<p><b>Sh. KV Subba Reddy</b> has voluntarily agreed to provide inputs/comments on harmonizing of IS <b>6175: Part 4 &amp; 5</b> with corresponding ISO standards, as mentioned in the table, to Member secretary <b>within 1 month.</b></p>
IS 6175 (Part 5) : 1991	Screwing taps: Part 5 nut screwing taps for ISO metric screw threads sizes m3 to m68 with coarse pitches - Specification	ISO 2283:2000	
IS 6175 (Part 6) : 1992	Screwing taps: Part 6 screwing taps for pipe threads parallel g series - Specification	ISO 2284:2017	<p><b>Sh. Rajesh Shinde from M/s Birla precision Technologies</b> has voluntarily agreed to provide inputs/comments on harmonizing of IS</p>
	Screwing taps: Part 7 screwing taps for pipe threads parallel rc series - Specification	ISO 2284:2017	



IS 6175 (Part 7) : 1992			<b>6175: Part 6,7 &amp; 8</b> with corresponding ISO standards, as mentioned in the table, to Member secretary <b>within 1 month.</b>
IS 6175 (Part 8) : 1992	Screwing taps: Part 8 screwing taps for pipe threads taper rc series - Specification	ISO 2284:2017	

**9.2.2** Committee noted the information given decided to archive all the standards given in item 9.2.2 of agenda.

**Item 10 DATE AND PLACE OF NEXT MEETING**

BIS is in the process of digitalizing the meeting plan for various committee meeting and has instructed to create option of annual meeting calendar to its IT department. Following tentative committee meeting dates are proposed for FY 2023-24 for committee to deliberate upon:

S.N.	Meeting No	Date	Venue
1.	18 <sup>th</sup> meeting	05.06.2023	Hybrid, HQ
2.	19 <sup>th</sup> meeting	30.11.2023	Hybrid, HQ
3.	20 meeting	13.02.2024	29.01.2024

**Item 11 ANY OTHER BUSINESS**

NIL

*The meeting concluded with a hearty vote of thanks to the chairman and all the Committee members.*

*Thank  
You*



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