Item 0 GENERAL

0.1 Welcome by Head of the Department/Member Secretary

0.2 Opening remark by Chairman

Shri Shiva Shankar, Chairman PGD 36 welcomed all the members to the 8th meeting of committee. He shared about his work experience with all the other members. He mentioned that he is looking forward to work together with all the experts to strengthen the standardization work.

Item 1. CONFIRMATION OF MINUTES OF LAST MEETING

1.1 The committee formally approved the minutes of last meeting of Fluid Power Systems Sectional Committee, PGD 36 held on 28th June, 2021.

ITEM 2. ISSUES ARISING OF THE LAST MEETING

Summary of actions taken based on decisions of the last meeting of this committee is given below:

Sl. No.	Subject	Decision of Committee in the Last Meeting	Action taken / Current Status before the Meeting	Decision of Committee in the Current Meeting
1	The Committee decided to revise the following standard: **IS 14604: 1998** Proforma for purchase Specification for positive displacement pumps and motors used in oil hydraulic systems and	The committee had suggested the Member Secretary to contact Shri Vivek (Dynamatic Technologies Ltd.) for providing the draft. Based on the inputs received from Shri Vivek (Dynamitic Technologies Ltd.), a P-draft was circulated to the members. In the last meeting ,the committee had deliberated and decided to send this draft into wide circulation for a period of 2 months if	The draft was wide circulated among committee members and other stakeholders for their comments. Last date of comments was 15th January, 2022. No comments have been received so far on this draft.	The committee decided to send the document into printing.

		no comments are received from members on P-draft		
2.	NWIP on "**Installation methods for hydraulic cylinders**".	The draft to be circulated as P-draft among committee members for their comments.	The draft is under preliminary stage. Last date of comments is 27th September, 2022. The committee may please deliberate and decide.	The committee decided that if no comments are received on the preliminary draft, the draft to be sent into wide-circulation for a period of 2 months.
3.	NWIP for "**Endurance Test for hydraulic cylinder**"	The Committee decided to constitute a panel as given below for preparation of draft: 1) Shri B.A.N. Murthy, Eaton Technologies Pvt. Ltd. (Convener) 2) Shri A. Subramanyam, BEML 3) Shri Shiv Kumar, Wipro Infrastructure Ltd. Shri B.A.N. Murthy agreed to contact Dr. Prasanna Kumar and RDE Pune to nominate people in this panel.	The panel had done 2 meetings on 17/08/2021 and 24/09/202. The panel had deliberated over various other international standards on the same subject like NFPA T2.6.1-R2, ISO 10711-1&2, SAE J 1374, SAE J 1334 etc. The committee may please deliberate further about how to go on about formulating this standard.	The committee requested the Member Secretary to try to procure various International Standard related to Endurance Tests for Hydraulic Cylinder. The committee also requested Shri B.A.N. Murthy, Eaton Technologies Pvt. Ltd. to try to obtain these standards. It was decided the Member Secretary will schedule a Panel meeting once the standards have been obtained.

4.	Revision of IS 8526:1994 ! ISO 7180:1986 Sizes for bores and port threads for pneumatic fluid power cylinders — Recommendations	The committee requested the Member Secretary to circulate it as a p-draft for 1 month updating the reference.	The draft was circulated among the committee members. Last date of comments is 23rd July, 2021. No comments have been received so far. The committee may please deliberate and decide.	The committee decided to send the documents into printing.
5.	Revision of following Indian Standards on Tube-Couplings: **1.** IS 10433 (Part 1): 1983 **2**.IS 10453 (Part 1): 1983 **3**.IS 10453 (Part 2): 1983 **4**.IS 10480: 1983 **5**.IS 10956: 1984 **6**.IS 14528: 1998 **7.**IS 8805: 2001 **8**.IS 9412 (Part 1): 1980 **9.**IS 9412 (Part 2): 1980 **10.** IS 9724 (Part 1): 1981 **11**.IS 9724 (Part 2: 1981 **12**.IS 9725 (Part 2): 1981 **13**.IS 9746 (Part 1): 1983 **14**.IS 9746 (Part 2): 1983 **15**.IS 9757 (Part 1): 1983 **16**.IS 9757 (Part 2): 1983 **17**.IS 9768: 1995	Comments on these standards were received from Shri G. R. Deshpande, Hyloc Ltd. on 26th June, 2021 and presented to the committee members in the last meeting. The committee in its previous meeting had decided to wide-circulate the draft for a period of 2 months as per the changes suggested by Shri G. R. Deshpande.	Please see **Annex A** of the Agenda for the current status.	Please see **Annex A (page 10-12)** for the decision of the committee.
6.	Revision of : **a) IS 13876 Part 2 : 1993** Guide for marking system for fluid power components: Part 1 cylinders **b) IS 13876 Part 2 : 1993** Guide for marking system for fluid power	Shri Vivek informed that there are no changes to be made. The committee deliberated on the current standards and decided to revise these standards updating the references as no changes had to be made technically. Member secretary to Wide-Circulate the	The wide -circulation drafts are under preparation. The committee may please note.	The committee noted the information given in the Agenda.

	components: Part 2 valves	draft for a period of 2 months.		

Item 3 NEW SUBJECTS

3.1 Panel for "Online Leakage Sealing System"

The following panel was formed for the formulation of standard on "Online Leakage Sealing Systems"

S. No.	Member	Organisation
1.	Shri Vasant Kadam, DGM (Convener)	ONGC Petro Additions Limited, Dahe
2.	Shri Rajindra Patil, Sr. Manager	ONGC Petro Additions Limited, Dahej
3.	Shree Amar Chatterjee	President & CE, Nicco Engineering Services Ltd, 1B & 2 Hare Street, Kolkata-700001
4.	Shri Rajendra Kale, Station Director	Vidarbha Industries Power Limited Reliance Power , Butibori , Nagpur
5.	Shri Atul Kumar Goel, GM	Dhariwal Infra. Ltd., CESC, 2x300 MW Power Project, Chandrapur,
6.	Shri Anand Umakanthan	Reliability Static,Reliance Industries Limited, Jamnagar
7.	Shri Anshuman Sehgal	JMD REAM - Reliability Static, Reliance Industries Limited, Jamnagar

In the previous meeting, the committee had deliberated and decided and decided to circulate the draft received from the Panel as P-draft for a period of 2 months

However, it was found out by Member Secretary that in the draft, references to standards other than those of Indian Standards had been made. Suitable Indian references have been found out and the final draft is attached as **Annex B (attached separately with the Agenda)**.

In the current meeting, the committee deliberated and decided to send the document in wide-circulation for a period of 1 month. If no comments are received in the wide-circulation stage, it was decided that the document can be sent into printing in consultation with the chairman.

Annex A
(*Clause* 2.5)

S. No.	IS Number	Title	Document Number	Status Before the Meeting	Decision of the committee
1.	1. IS 10433 (Part 1) : 1983	Specification for Male Stud Tee Body Stud Run for Oil-Hydraulic Coupling - Part I Made from Forgings	18409	The draft was wide circulated for comments for a period of 2 months. Last date of comments was ____. No comments have been received so far on the drafts.	The committee decided to send the document into printing.
2.	IS 10453 (Part 1) : 1983	Specification for Taper Male Stud Tee Body Stud Run For Oil-Hydraulic Couplings - Part I Made from Forgings	18410	-do-	-do-
3.	IS 10453 (Part 2) : 1983	Taper Male Stud Tee Body Stud Run for Oil-Hydraulic Couplings - Part II Made from Bar Stock	18411	-do-	-do-
4.	IS 10480 : 1983	Specification for Stud Run Tee Coupling Assemblies for Oil-Hydraulic Systems	18412	-do-	-do-
5.	IS 9412 (Part 1) : 1980	Specification for Male Stud Elbow Body for Oil-hydraulic Couplings - Part I	18520	-do-	-do-

		Made From Forgings			
6.	IS 9412 (Part 2) : 1980	Specification for Male Stud Elbow Body for Oil-Hydraulic Couplings - Part II Made From Bar	18401	-do-	-do-
7.	IS 9724 (Part 1) : 1981	Specification for Taper Male Stud Tee Body Stud Branch for Oil-hydraulic Couplings - Part I Made from Forgings	18402	-do-	-do-
8.	IS 9724 (Part 2) : 1981	Specification for Taper Male Stud Tee Body Stud Branch for Oil-hydraulic Couplings - Part II Made from Bar Stock	18403	-do-	-do-
9.	IS 9725 (Part 2) : 1981	Specification For Male Stud Tee Body Stud Branch for Oil-hydraulic Couplings - Part II Made from Bar Stock	18404	-do-	-do-
10.	IS 9746 (Part 1) : 1983	Specification for Equal Cross Body for Oil-hydraulic Coupling - Part I Made from Forgings	18405	-do-	-do-
11.	IS 9746 (Part 2) : 1981	Specification for Equal Cross Body for Oil-hydraulic Couplings - Part II Made from Bar Stock	18526	-do-	-do-

12.	IS 9757 (Part 1) : 1981	Specification for Bulkhead Elbow Body for Oil-Hydraulic Couplings - Part I Made from Forgings	18406	-do-	-do-
13.	IS 9768 : 1995	Bulkhead Straight Body for Oil-hydraulic Couplings - Specification	18407	-do-	-do-
14.	IS 10956 : 1984	Specification for welding coupling body for oil hydraulic couplings	-	The wide-circulation draft is under preparation. The committee may please note.	The committee noted the information given in the Agenda.
15.	IS 14528 : 1998	Tube end straight reducers for oil - Hydraulic couplings	-	-do-	
16.	IS 8805 : 2002	General requirements for ferrule type couplings used in oil hydraulic systems (First Revision)	-	-do-	
17.	IS 9757 (Part 2) : 1983	Specification for bulkhead elbow body for oil - Hydraulic couplings: Part 2 made from bar stock	-	-do-	