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|  | भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS |
| | (PETROLEUM, COAL & RELATED PRODUCTS DEPARTMENT) |
| AGENDA | |
| 30 April 2024, Tuesday, 1100 – 1600 h | |
| Lubricants And their Related Products Sectional Committee | 16th Meeting |
| Chairperson: Dr. Y P Rao, In Personal Capacity | Member Secretary: Ms. Kreeti Das |
| Meeting mode: Physical Venue: BIS Western Regional Laboratory, 9, M.I.D.C., Behind Marol Telephone Exchange, Andheri (East), Mumbai 400093 | |

ITEM 0 WELCOME AND INTRODUCTORY REMARKS

0.1 Welcome by BIS

0.2 Opening Remarks by the Chairperson

ITEM 1 CONFIRMATION OF THE MINUTES OF THE 15TH MEETING OF PCD 25

The 15th meeting of PCD 25 was held in hybrid mode on 27 October 2023. The minutes of the meeting were circulated to all members through email on 18 November 2023.

- a) Comment related to typing error pointed out by Shri P Ramesh (correction in organization name to Ashok Leyland) and may be accepted.
- b) Comments received on the minutes from Dr. Kavita Rai, reproduced below:

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|--|--|---|--|
| | | <ul style="list-style-type: none"> - DGAQA - IOCL (R&D) - IOCL (Mktg) - Avi Oils - Mitesh Rathod, Swastik Oil - Harsh Vardhan Jain, Vinni Chemicals • The scope of this Panel is to identify the subjects and prepare the specifications in which Indian Air Force is interested (Background - NWIP received from Indian Air Force) • The Subcommittee RECOMMENDED BIS to seek nomination of representatives from the above organizations for the panel so that meeting can be called urgently • Dr. Kavita Rai suggested the panel to refer to JSS 9150-090 : 2021 Hydraulic fluid for military aircraft OM15 for preparation of working document • The Committee AGREED with the recommendation of Subcommittee and RECOMMENDED to add HPCL in the panel | <p>nominations have been received</p> <ul style="list-style-type: none"> • The Subcommittee REQUESTED main Committee to discuss <p>COMMITTEE DECISION: The Committee DIRECTED BIS to contact Dr. Shanmuga Priya from CEMILAC. Dr. Kavita Rai was willing to be nominated from IOCL (R&D) and Shri Piyush Dubey was proposed to be nominated from IOCL (Mktg).</p> <p>The Committee DIRECTED BIS to follow up with the organizations again to constitute the panel and REQUESTED Shri Siva Kasturi to convene a meeting for formulation of draft.</p> |
|--|--|---|--|

[Please change the highlighted portion as “Dr. Kavita Rai was proposed to be nominated from IOCL (R&D)” as Sh. Mukul Maheshwari CGM I/c LT had nominated me for the same in the said meeting.]

The Committee may **CONSIDER**.



ITEM 2 TITLE, SCOPE AND COMPOSITION OF PCD 25

2.1 The title of the Committee is given below:

TITLE - Lubricants and their Related Products Sectional Committee

*The Committee may **NOTE***

2.2 The scope of the Committee is given below:

SCOPE – To formulate Indian Standards for terminology; lubricants, bio- lubricants, lubricating oils & greases and their related products like coolants, hydraulic fluids, corrosion preventives, quenching and cutting oils, lubricant produced through synthesis routes and codes of practice for storage, handling, transport and application.

*The Committee may **NOTE***

2.3 Liaison with ISO Committees

- ISO/TC 28 Petroleum and related products, fuels and lubricants from natural or synthetic sources (so far as it concerns its own scope)
- ISO/TC 28/SC 4 Classifications and specifications

*The Committee may **NOTE***

2.4 The present composition of PCD 25 and its Subcommittees is given in **Annex I**.

2.4.1 BIS Management has taken a strict view of participation in committee meetings and introduced the following new reforms regarding committee composition:

- a) **Mandatory 50% participation:** Organizations having less than 50% participation recommended to be withdrawn
- b) **Maximum Committee Members:** Composition of committee to be restricted to maximum 30 and balance among stakeholders – not more than 1/3 manufacturers and not less than 2/3 other parties like consumers, regulators, ministries, academicians, R&D, and laboratories – to be maintained.
- c) **Tenure for Members in Personal Capacity and Private Companies:** Members participating in personal capacity or representing private organizations to be removed/changed in 5 years
- d) **Establishment of Standardization Cells in Industry Association:** Industry associations are required to establish standardization cells and register in BIS standards portal, failing which, they will be removed from Committee.

*The Committee may **CONSIDER**.*

2.4.2 The following panel has been created to review the composition of PCD 25 and its SCs:

- a) Dr. Y P Rao, Chairperson PCD 25 – Convenor
- b) Shri Mukul Maheshwari, Convenor PCD 25:1
- c) Shri Siva Kasturi, Convenor PCD 25:2
- d) Dr. T Singh, Convenor PCD 25:3
- e) Representative from SIAM

The panel needs to meet to review the composition and decide on co-option requests.

*The Committee may **CONSIDER**.*



2.5 Panels and Working Groups under PCD 25 and its SCs

- i. PCD 25 : P1 Panel for Food Grade and Biodegradable Lubricants (Convenor – Dr. Kavita Rai, IOCL R&D)
- ii. PCD 25 : P5 Panel for Food Grade and Biodegradable Greases (Convenor – Dr. Tarunendr Singh, BPCL)
- iii. PCD 25 : P8 Panel for Revision of Standards / Formulation of New Standards on Temporary Corrosion Preventives (Convenor – Shri Siva Kasturi, Shell India Markets Private Limited, Mumbai)
- iv. PCD 25 : 1 : P1 Revision of IS 5759 : 2006 Antifreeze Coolant (Convenor – Shri Harsh Vardhan Jain, Vinni Chemicals Pvt Ltd)
- v. PCD 25 : 1 : P2 Panel for Transmission and e-Axle Fluids for Electric Vehicles (Convenor – Shri Anand Kumar, Afton Chemicals Pvt Ltd)
- vi. PCD 25 : 1 : P3 Formulation of Certification Procedure for Engine Oils, Gear Oil, and Axle Oils (Convenor – Dr. Pankaj Bhatnagar, IOCL R&D)
- vii. PCD 25 : 1 : P4 Panel for Formulating Standards for Base Oil (Convenor – Dr Ajay Kumar Harinarain, IOCL R&D)
- viii. PCD 25 : 2 : P1 Panel for Formulation of Standards on Aviation Grade Hydraulic Fluids (Convenor – Shri Siva Kasturi, Shell India Markets Private Limited, Mumbai)
- ix. PCD 25 : 3 : P1 Panel for Greases for Electric Vehicles (Convenor – Dr. T Singh, BPCL)

*The Committee may **NOTE**.*

ITEM 3 R&D PROJECTS TO SUPPORT STANDARDIZATION

Bureau of Indian Standards (BIS), as the National Standards Body of India is responsible for formulating Indian Standards for products, processes and services. In the pursuit of this endeavour, it has so far developed more than 22000 Indian Standards. It is important that no standard should be developed without intensive and insightful research work, which is not confined only to the review of the existing literature and focus group discussions on the subject chosen for standardization, but also covers the detailed field level study of the existing processes and practices in product manufacturing and service delivery. This requires a large network of domain area experts to carry out the research & development work. The Memorandum of Understanding with the premier educational institutions imparting technical and professional education opens the window to the opportunities to expand this network substantially by utilizing the intellectual capital that resides with the faculty and the research scholars in these institutions. This association is conceived not only as a way to promote research & development work necessary for standards formulation but also to enrich the research ecosystem in these educational institutions.

The R&D guidelines are attached.



R&D Guidelines Sep
2023.pdf

*The Subcommittee may **CONSIDER** utilizing the provision of R&D projects for revision of standards/development of new standard*

ITEM 4 ACTIVITIES OF PCD 25

4.1 The program of work and list of standards published under PCD 25 are attached.




Program of
Work.pdf



The Committee may **NOTE**

4.2 Details of Subcommittee Meetings

| Details of Subcommittee | Date of the meeting | Minutes |
|---|------------------------------|--|
| 9 th Meeting of PCD 25:1 Automotive Lubricants & Specialties (Including Brake Fluid and Radiator Coolant) Subcommittee | 29 April 2024, 1000 - 1130 h | Will be available after subcommittee meeting |
| 9 th Meeting of PCD 25:2 Industrial Lubricants & Specialty Products Subcommittee | 18 April 2024, 1430 - 1630 h | Under preparation |
| 9 th Meeting of PCD 25:3 Automotive And Industrial Greases Subcommittee | 1 April 2024, 1030 - 1130 h |  MoM - 9th meeting PCD 25 SC 3 .pdf |


The Committee may **CONSIDER** and **ENDORSE** the recommendations of the Subcommittees.

4.3 Draft Standards/Amendments for Finalization

| Sl. No. | Document Number | Decision in Previous Meetings | Action Taken/Current Status |
|---------|---|--|--|
| i. | PCD 25 (25017)WC Food Grade and Biodegradable Lubricants | <ul style="list-style-type: none"> Panel 1 created under the Convenorship of Dr Kavita Rai for food grade and biodegradable lubricants. The panel was of the opinion that requirement for food grade and biodegradable lubricant may be incorporated in existing standards for application-wise lubricants She informed that ISO 15380 "Lubricants, industrial oils and related — Family H (Hydraulic systems) — Specifications for hydraulic fluids in categories HETG, HEPG, HEES and HEPR" covers biodegradable base oil for hydraulic system and recommended Committee to adopt it for biodegradable hydraulic oil standard. Hence, the Committee DECIDED to issue ISO 15380 into WC for 2 months for identical adoption | <ul style="list-style-type: none"> ISO 15380 has been circulated into WC with document number PCD 25 (25017)WC for a period of 60 days, ending on 6 May 2024. The Committee may NOTE. |



4.4 Draft Standards/Amendments for Approval for Wide Circulation

| Sl. No. | Indian Standard/Document No. | Decision in Previous Meetings | Action Taken/Current Status |
|---------|--|---|---|
| i. | PCD 25(23378)P Food Grade and Biodegradable Greases | <ul style="list-style-type: none"> The Committee DECIDED to issue the draft provided by Dr. T Singh into P draft circulation for 1 month. Draft issued into P-draft circulation for 1 month with document no. PCD 25 (23378)P on 25 Aug 2023. Comments received. <p>COMMITTEE DECISION: The Committee RECOMMENDED to discuss the comments in meeting of PCD 25 panel 5.</p> | <ul style="list-style-type: none"> PCD 25/P5 held meeting on 1 April 2024 to discuss the comments. Resolution of comments by panel attached: <ul style="list-style-type: none">  Resolution of Comments on PCD 2 The Committee may CONSIDER issuing the document into WC. |

4.5 Drafts Under Preparation

| Sl. No. | Indian Standard/New Subject | Decision in Previous Meetings | Action Taken/Current Status |
|---------|---|--|---|
| i. | Greases for Solar Panels/Dielectric Grease | <ul style="list-style-type: none"> In the 8th meeting, the Committee noted the need for Indian Standard on greases for solar panels/ dielectric grease and requested Dr T. Singh, Convener, PCD 25:3, to look into the subject and present a white paper. In last meeting, the Committee REQUESTED Lubrizol to assist Dr. T Singh in preparing a white paper on the subject. Lubrizol nominated Shri Sandeep Sarode and Shri Nitin Chaudhari to assist Dr. T Singh in preparing a white paper on the subject. <p>COMMITTEE DECISION: The Committee REQUESTED Dr. T Singh to coordinate with Lubrizol for preparation of white paper.</p> | <ul style="list-style-type: none"> Update on the project is awaited. The Committee may CONSIDER. |

4.6 Revision/Reaffirmation of Standards Due for Review

| Sl. No. | Indian Standard | Due Date | Current Status |
|---------|---|---------------|--|
| 1. | IS 14384 : 1996 Colloidal graphite dispersion in oil – Specification | February 2023 | <ul style="list-style-type: none"> The Committee REAFFIRMED the standard with revision The Committee REQUESTED Dr. T Singh to provide the revised draft by 15 Nov 2023 |



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| | | | <ul style="list-style-type: none"> The standard is based on CS 1419C, IND/SL/4116(a) Specification and Defence Standard 91-30/Issue 1, 12 July 1977 Dr. T Singh has requested for latest version of this specification, which BIS is trying to procure. <i>The Subcommittee may CONSIDER.</i> |
| 2. | IS 16775 : 2018 ISO / TS 11365:2011 Petroleum and related products - Guidance for the maintenance and use of triaryl phosphate ester turbine control fluids | March 2023 | <ul style="list-style-type: none"> The Committee REAFFIRMED the standard with revision The Committee DIRECTED BIS to issue the latest ISO 11365 : 2017 into WC for 2 months for adoption The WC document is under preparation for circulation. <i>The Committee may NOTE.</i> |
| 3. | IS 10532 (Part 4) : 2019 Fire resistant hydraulic fluids - Specification: Part 4 phosphate esters type | March 2024 | <ul style="list-style-type: none"> The standard is under revision through adoption of ISO 12922 : 2020 "Lubricants, industrial oils and related products (class L) — Family H (hydraulic systems) — Specifications for hydraulic fluids in categories HFAE, HFAS, HFB, HFC, HFDR and HFDU" <i>Committee may CONSIDER reaffirming the standard with revision.</i> |
| 4. | IS 1118 : 2019 Gear lubricants, multipurpose (Extreme Pressure Gear Oil) - specification | March 2024 | <ul style="list-style-type: none"> The standard is under revision in PCD 25:1/P3 <i>Committee may CONSIDER reaffirming the standard with revision.</i> |
| 5. | IS 13656 : 2019 Internal combustion engine crankcase oils for automotive application (Diesel And Gasoline) - Specification | March 2024 | <ul style="list-style-type: none"> The standard is under revision in PCD 25:1/P3 <i>Committee may CONSIDER reaffirming the standard with revision.</i> |
| 6. | IS 506 : 2019 Automotive and other general purpose grease - specification | March 2024 | <ul style="list-style-type: none"> <i>Committee may CONSIDER allocating ARP to BIS officer or to any Committee member.</i> |
| 7. | IS 7623 : 2019 Multipurpose industrial grease - Specification | March 2024 | <ul style="list-style-type: none"> <i>Committee may CONSIDER allocating ARP to BIS officer or to any Committee member.</i> |



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| 8. | IS 8654 : 2019 Automotive hydraulic brake fluid, heavy duty - Specification | March 2024 | <ul style="list-style-type: none"> Committee may CONSIDER allocating ARP to BIS officer or to any Committee member. |
| 9. | IS 493 (Part 1) : 2019 Specification for general purpose machinery and spindle oils: Part 1 machinery oils | March 2024 | <ul style="list-style-type: none"> Committee may CONSIDER allocating ARP to BIS officer or to any Committee member. |
| 10. | IS 493 (Part 2) : 2019 Specification for general purpose machinery and spindle oils: Part 2 spindle oils | March 2024 | <ul style="list-style-type: none"> Committee may CONSIDER allocating ARP to BIS officer or to any Committee member. |
| 11. | IS 11159 (Part 5) : 2019 / ISO 6743-4 : 1999 Lubricants, industrial oils and related products (Class L) - Classification: Part 5 family H (Hydraulic Systems) | March 2024 | <ul style="list-style-type: none"> ISO 6743-4 has been revised in 2015. Committee may CONSIDER adopting the latest ISO standard and reaffirm the standard with revision. |
| 12. | IS 11159 (Part 7) : 2019 / ISO 6743-6 : 1990 Lubricants, industrial oils and related products (Class L) - Classification: Part 7 family C (Gear Systems) | March 2024 | <ul style="list-style-type: none"> ISO 6743-6 has been revised in 2018. Committee may CONSIDER adopting the latest ISO standard and reaffirm the standard with revision. |
| 13. | IS 11159 (Part 13) : 2019 / ISO 6743-12 Lubricants, industrial oils and related products (Class L) - Classification: Part 13 family Q (Heat Transfer Fluids) | March 2024 | <ul style="list-style-type: none"> ISO 6743-12 has not been revised. Committee may CONSIDER. |



4.7 Revision of Pre-2000 Standard

| Sl. No. | Indian Standard | Decision in Previous Meeting | Current Status |
|---------|--|---|--|
| 1. | IS 4578 : 1997 Lubricants - Lubricating oil for refrigeration machinery - Specification | <ul style="list-style-type: none"> In 15th meeting, Shri Abhijit Sarkar informed that he has reviewed the standard and no major updates required. Hence, revised draft may be prepared by incorporating all amendments and making editorial corrections The Committee DIRECTED BIS to prepare the revised draft of the standard and issue into WC for 2 months. | <ul style="list-style-type: none"> As there is only one amendment to the standard, it will not be apt to issue revision to incorporate the amendment or for editorial corrections. Committee may CONSIDER archiving the standard. |
| 2. | IS 14745 : 1999 Thermic fluids - Specification | <ul style="list-style-type: none"> The Committee DIRECTED BIS to follow up with Shri Shakti Mishra, HPCL, to provide the revised draft of the standard by end of November 2023. | <ul style="list-style-type: none"> Communication sent to Shri Shakti Mishra along with editable file Revised draft awaited The Committee may CONSIDER |

ITEM 5 INTERNATIONAL ACTIVITY

5.1 P Membership and Participation

BIS is a participating member of the following ISO technical committees and PCD 25 is the corresponding National Mirror Committee (NMC) dealing with their activities.

| Sl. No. | ISO Technical Committee/Subcommittee/WG | Registered Committee Member/Expert |
|---------|--|---|
| 1. | ISO/TC 28 Petroleum and related products, fuels and lubricants from natural or synthetic sources | Dr. Raj Kumar Singh, CSIR – IIP Shri Mukul Maheshwari, IOCL R&D Dr. T Singh, BPCL Shri Siva Kasturi, Shell Head, PCD Ms. Kreeti Das, Member Secretary <i>The Committee may NOTE.</i> |
| 2. | ISO/TC 28/SC 4 Classifications and specifications | Dr. Kavita Rai, IOCL R&D Shri Mukul Maheshwari, IOCL R&D Dr. T Singh, BPCL Head, PC Head, PCD Ms. Kreeti Das, Member Secretary |



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| | | <i>The Committee may CONSIDER nominating experts from IIP and Convenor of PCD 25:2 in ISO/TC 28/SC 4 as well.</i> |
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ITEM 6 ANY OTHER BUSINESS

ITEM 7 ANNUAL MEETING CALENDAR

| Sl. No. | Sectional Committee / Subcommittee | Dates |
|---------|--------------------------------------|----------------------------|
| 1 | PCD 25, PCD 25:1, PCD 25:2, PCD 25:3 | April 2024 |
| 2 | PCD 25, PCD 25:1, PCD 25:2, PCD 25:3 | 1 – 8 & 14 October 2024 |
| 3 | PCD 25, PCD 25:1, PCD 25:2, PCD 25:3 | 10 – 14 & 18 February 2025 |

ITEM 8 VOTE OF THANKS



Annex I

PCD 25 Lubricants and their Related Products Sectional Committee

| SI No. | Organization | Member Name | Member Email | Member Designation | Role | 14 th | 15 th | Total |
|--------|--|---------------------------|----------------------------------|----------------------------|------------------|------------------|------------------|-------|
| 1. | IN INDIVIDUAL CAPACITY | Dr Y. P. Rao | yprao2012@gmail.com | Chairperson | Chairperson | Y | Y | 2/2 |
| 2. | Afton Chemicals Private Limited, Mumbai | Shri Anand Kumar | Anand.kumar@aftonchemical.com | | Principal Member | N | Y | 1/2 |
| 3. | Ashok Leyland Limited, Chennai | Shri D. Balakrishnan | balakrishnan.d2@ashokleyland.com | Deputy General Manager- PD | Alternate Member | Y | Y | 2/2 |
| | | Shri Mahesh P | Mahesh.P@ashokleyland.com | General Manager | Principal Member | | | |
| 4. | Bajaj Auto Limited, Pune | Shri Yogesh. R. Mahajan | yrmahajan@bajajauto.co.in | | Principal Member | Y | Y | 2/2 |
| | | Shri Ramesh Goykar | rgoykar@bajajauto.co.in | Manager | Alternate Member | | | |
| 5. | Balmer Lawrie and Company Limited, Kolkata | Dr. Somnath Chattopadhyay | chattopadhyay.s@balmerlawrie.com | Sr Manager | Principal Member | Y | N | 1/2 |
| | | Shri Madhaba Chandra Dash | dash.mc@balmerlawrie.com | Manager (R&D) | Alternate Member | | | |
| 6. | Bharat Petroleum Corporation Limited, Mumbai | Shri M Sohail Akhtar | akhtarm@bharatpetroleum.in | GENERAL MANAGER I/C (P&AD) | Principal Member | Y | Y | 2/2 |



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|----|---|-----------------------|-------------------------------|------------------------------|--------------------|---|---|-----|
| | | Dr Tarunender Singh | singhtarun@bharatpetroleum.in | General Manager (R&D) | Alternate Member | | | |
| 7. | Bosch Limited, Bengaluru | Shri Fredrick A. | Fredrick.A@in.bosch.com | Senior Manager (Development) | Principal Member | Y | N | 1/2 |
| | | Shri Raghuvver Rao | Raghuvver.Rao@in.bosch.com | Deputy Manager (Development) | Alternate Member | | | |
| 8. | CSIR - Indian Institute of Petroleum, Dehradun | Dr. Devendra Singh | devendra@iip.res.in | Principal Scientist | Principal Member | Y | N | 1/2 |
| | | Dr. G.D. Thakre | gdthakre@iip.res.in | Senior Principal Scientist | Alternate Member | | | |
| | | Dr. Sailesh Kr. Singh | sk.singh@iip.res.in | Senior Scientist | Young Professional | | | |
| 9. | Chennai Petroleum Corporation Limited, Chennai | Shri H. Ramakrishnan | ram@cpcl.co.in | Senior Manager (QC) | Principal Member | Y | Y | 2/2 |
| | | Shri M Abdul Kareem | kareem@cpcl.co.in | Dr., DGM (QC) | Alternate Member | | | |
| 10 | Consumer Guidance Society of India, Mumbai | Dr. Sitaram Dixit | sitaram.dixit@gmail.com | Chairman | Principal Member | Y | Y | 2/2 |
| | | Dr. M. S. Kamath | dr.m.s.kamath@gmail.com | General Secretary | Alternate Member | | | |
| 11 | Directorate General of Quality Assurance, Ministry of Defence, Kanpur | Shri A K Kanaujia | ashokkumar.kanaujia@gov.in | SSO-II | Principal Member | Y | Y | 2/2 |
| | | Dr. Om Prakash Singh | omprakash.singh75@gov.in | Principal Scientific Officer | Alternate Member | | | |



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| 12 | Gulf Oil Lubricants India Limited, Mumbai | Shri Girish Jange | girish.jange@gulfoil.co.in | Sr. General Manager - Global Technology | Principal Member | N | Y | 1/2 |
| | | Shri Jencen Mathai Arivannoor | jencen.arivannoor.ch@gulfoil.co.in | Sr. R&D Scientist | Alternate Member | | | |
| 13 | Hindustan Petroleum Corporation Limited, Mumbai | Shri Lokender Singh Tevathiya | lokender@hpcl.in | Chief Manager - Quality Control | Principal Member | Y | Y | 2/2 |
| | | Shri Ashish Khanna | akhanna@hpcl.in | General Manager - Technical Services | Alternate Member | | | |
| | | Shri Abhijit A Sarkar | aasarkar@hpcl.in | Deputy General Manager – Product Development & OEM Business | Young Professional | | | |
| 14 | Indian Oil Corporation (MKTG), Mumbai | Shri Abhijeet Chakraborti | achakravorty@indianoil.in | Chief Manager (Lube QC) | Alternate Member | N | Y | 1/2 |
| | | Shri H S Negi | negihs@indianoil.in | Dy. General Manager (Technical Services) | Principal Member | | | |
| 15 | Indian Oil Corporation (R and D Centre), Faridabad | Dr Pankaj Bhatnagar | bhatnagarp@indianoil.in | Chief General Manager | Alternate Member | Y | Y | 2/2 |
| | | Shri Mukul Maheshwari | maheshwarim@indianoil.in | Chief General Manager In-Charge (LT) | Principal Member | | | |



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| 16 | Lubrizol India Limited, Mumbai | Shri Rahul Misra | rahul.misra@lubrizol.com | Senior Director- Technology | Principal Member | Y | N | 1/2 |
| | | Shri Avinash Kamuni | avinash.kamuni@lubrizol.com | Technology Manager-Engine oils | Alternate Member | | | |
| 17 | Mahindra and Mahindra Limited, Mumbai | Shri R. Ramaprabhu | r.ramaprabhu@mahindra.com | | Principal Member | Y | N | 1/2 |
| 18 | National Test House, Kolkata | Shri Bhaskar N Barsagade | bnbarsagade@nth.gov.in | Scientist B (Chemical) | Alternate Member | N | Y | 1/2 |
| | | Dr. Mangesh Gharpure | m.gharpure@nth.gov.in | Scientist C (Chemical) | Principal Member | | | |
| 19 | Netra NTPC Limited, Noida | Shri Rajiv Satyakam | rsatyakam@ntpc.co.in | AGM-NETRA | Principal Member | N | N | 0/2 |
| | | Ms. Vani G. D. | vanigd@ntpc.co.in | Manager-NETRA | Alternate Member | | | |
| 20 | Reliance India Limited, Mumbai | Shri Balasubramanian K | Balasubramanian.kuppuswamy@ril.com | Vice President | Principal Member | N | Y | 1/2 |
| | | Shri K. K. Sreeramachandran | sreeramachandran.kartha@ril.com | Vice President - Strategy | Alternate Member | | | |
| 21 | Research Designs and Standards Organization (RDSO), Lucknow | Shri Bharat Prasad | bharatprasad2501@gmail.com | Assistant Research Officer | Alternate Member | N | N | 0/2 |
| | | Shri Kamal Prakash Singh | singh150566@gmail.com | Deputy Director (M&C) | Principal Member | | | |



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|----|--|--------------------------------|----------------------------------|------------------------|--------------------|---|---|-----|
| 22 | Society of Indian Automobile Manufacturers (SIAM), Delhi | Shri Prashant Kumar Banerjee | pkbanerjee@siam.in | Executive Director | Principal Member | Y | N | 1/2 |
| | | Dr. Sandeep Garg | sgarg@siam.in | Dy. Executive Director | Alternate Member | | | |
| 23 | Swastik Oil Products Manufacturing Company Private Limited, Mumbai | Shri Bhupendra Rathod | bhupendrarathod2002@yahoo.co.in | | Principal Member | Y | N | 1/2 |
| | | Shri Sanat Rathod | sanatswastikoil@gmail.com | | Alternate Member | | | |
| | | Shri Mitesh Rathod | mitesh@swastikoil.com | | Young Professional | | | |
| 24 | Tata Motors Limited, Pune | Shri Pallipalayam Gowrishankar | p.gowrishankar@tatamotors.com | General Manager | Principal Member | Y | Y | 2/2 |
| | | Shri Pallav Chatterjee | pallav.chatterjee@tatamotors.com | Senior Manager | Alternate Member | | | |
| 25 | Vinni Chemicals Pvt. Ltd., New Delhi | Shri Harsh Vardhan Jain | harsh@vinnichemicals.com | | Principal Member | Y | N | 1/2 |