



सत्यमेव जयते

# सीएचटी न्यूज लेटर CHT

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सीएचटी

उच्च प्रौद्योगिकी केन्द्र  
पेट्रोलियम और प्राकृतिक गैस मंत्रालय, भारत सरकार

Centre for High Technology  
Ministry of Petroleum & Natural Gas, Govt. of India

## From the desk of the Executive Director



I am very happy to take over as Executive Director, Centre for High Technology w.e.f 1<sup>st</sup> March 2019. At Centre for High Technology, it is our commitment to provide technical support to the downstream hydrocarbon sector. As a new initiative and information to all, CHT is commencing bi-monthly Newletters to cover major events/happenings at CHT including various meetings held for carrying out CHT functions in line with our objectives. Our endeavor is for bringing in continuous improvement in the performance of refineries and promote innovative methods and technologies to achieve excellence. This can be achieved with support from all agencies, organisations working with CHT to achieve the goals set by MoP&NG.

*(Handwritten signature)*

(K.K. Jain)

Executive Director

### Visit of Dr. Anil Kakodkar, Chairman, SAC

Dr. Anil Kakodkar, Chairman, Scientific Advisory Committee of MoP&NG recently visited CHT office on 22<sup>nd</sup> May 2019. He was given a warm welcome by Shri K.K. Jain, Executive Director, CHT and other senior officials at CHT.

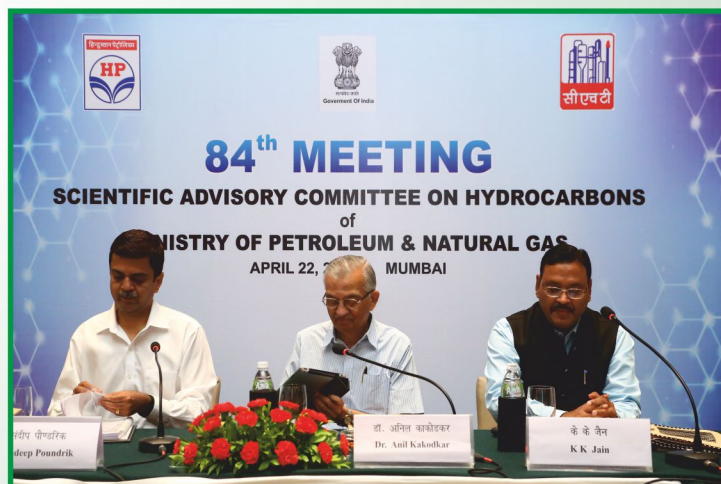


Dr. Anil Kakodkar, Chairman, SAC being welcomed by Shri K.K. Jain, Executive Director, CHT during his recent visit to CHT office, OIDB Bhawan on 22<sup>nd</sup> May 2019.

On this important occasion, Dr. Kakodkar interacted with CHT officials and shared his valuable thoughts on the total energy picture of our country and oil & gas economy of the world. During his interaction, he stated that strength of a country is defined by its technological capability and not only by its military strength, natural resources. A country must strive to promote indigenous technology and become technology exporter, rather than become raw material exporter thereby removing technological vulnerability. Keeping in view the challenges in the energy sector existing with regard to increase in import bill, hydrocarbon demand increase by 4-5% due to increase in standard of living and population, he highlighted the growing importance of alternative energy sources in the present scenario such as Biomass, Solar energy, gas hydrates etc. He stressed that CHT should promote technology development to benefit the Nation.

### 84<sup>th</sup> Meeting of the Scientific Advisory Committee (SAC)

84<sup>th</sup> Meeting of the Scientific Advisory Committee (SAC) on Hydrocarbons of MoP&NG was held on 22<sup>nd</sup> April 2019 in Mumbai under the Chairmanship of Dr. Anil Kakodkar. Shri K.K. Jain, ED, CHT welcomed the Chairman, SAC and other members of SAC. SAC reviewed the progress of various ongoing R&D projects and discussed the new proposals for funding.



(Seated from L to R:) Shri Sandeep Poundrik, JS(R), MoP&NG, Dr. Anil Kakodkar, Chairman, SAC and Shri K.K. Jain, Executive Director, CHT during the 84<sup>th</sup> SAC Meeting on 22<sup>nd</sup> April 2019.



SAC deliberated on 'Pradhan Mantri JI-VAN (Jaiv Indhan Vatavaran Anukool fasal awashesh Nivaran) Yojana', a scheme launched by Government of India on 07<sup>th</sup> March 2019 to promote 2G Ethanol technology. The scheme covers broad guidelines, scope, and implementation mechanism to support 12 commercial projects (viability gap funding amounting to maximum Rs.150 crore per project) and 10 demonstration projects on different technology (maximum Rs. 15 crore per Technology). SAC will be the Nodal Body for recommending the eligible Project proposals & CHT will be the Nodal Agency for implementation of the scheme. Recommended projects shall be approved by Steering Committee under the chairmanship of Secretary, PNG. For quick & effective implementation of the scheme, 3 sub committees are to be constituted to address the following:

1. Review of criteria for Project Developer Eligibility & Project Evaluation Parameters
2. Supply chain logistics for raw material as well as product streams covering various business models including co-operative model
3. Technology issues: To bring down 2G ethanol production cost including enzyme cost as well as cost of production of other energy forms using Biomass.

SAC shall devise a mechanism for implementation of the scheme after deliberations on the report submitted by sub-committees. Subsequently, CHT shall float EOI for seeking proposals by June 2019.

### Training programme on M&V audit process

BEE organised a training programme on M&V audit process in Refining sector on 17<sup>th</sup> May 2019 at OIDB Bhawan, Noida. The meeting was inaugurated by Shri K. K. Jain, Executive Director, CHT in presence of Shri Milind Deore, Director, BEE. The meeting was attended by 21 Encon Engineers / Managers from Refineries and 35 empanelled accredited energy auditors, apart from 4 officers from CHT and 2 officials from BEE.



**Shri K.K. Jain, Executive Director, CHT delivering the inaugural address at the meet held at OIDB Bhawan on 17<sup>th</sup> May 2019**

Ms Ritika Saxena from BEE made presentation covering PAT scheme, its features, sectoral targets, institutional structure, ESCerts trading etc. Shri Piyush Sharma from GIZ made presentation on M&V principles, agencies involved, M&V process, EC rules 2012, role and obligations of empanelled accredited energy auditors etc.

Shri IH Shivaraya, Advisor (Tech.) from CHT made presentation on Normalisation factors and methodology of calculation with illustrative examples. Shri Dinesh Ghai from EIL made presentation on the Proforma developed by CII for data entry and getting the calculation results.

The meeting provided a platform for clearing all the doubts of Refiners and Empaneled accredited energy auditors as M&V audit of 2<sup>nd</sup> PAT cycle has to be completed by 31<sup>st</sup> July 2019.

### 41<sup>st</sup> ACM on Catalytic Reforming and Isomerisation

41<sup>st</sup> ACM on Catalytic Reforming and Isomerisation was organised by CHT in association with IOCL Paradip as the host Refinery on 9<sup>th</sup> & 10<sup>th</sup> April 2019 at Paradip. The meet was inaugurated by Shri TDVS Gopalakrishna, ED, Paradip Refinery, IOCL in presence of Shri K.K. Jain, ED, CHT.



**(Standing from L to R:) Shri TDVS Gopalakrishna, ED, Paradip Refinery, Shri K.K. Jain, ED, CHT & Shri MRS Iyer, CGM, BPCL-Kochi Refinery.**



**Shri K.K. Jain, ED, CHT lighting the ceremonial lamp while inaugurating the 41<sup>st</sup> ACM on Catalytic Reforming and Isomerisation at IOCL Paradip Refinery on 9<sup>th</sup> April 2019**

The meet was attended by over 90 Participants. The participation was across operations and Technical services departments of Refineries, R&D centres of IOC, BPC & HPC. Presentations were made location wise by the participants from Refineries covering both Reforming and Isomerisation. Papers were also presented by, UOP, Axens, KBR and Technip, apart from R&D Centres. The Technical sessions comprised a total of 27 presentations as per the agenda given by CHT. The convener of the meet was Shri MRS Iyer, CGM, BPCL-Kochi Refinery. Towards the end, a Q&A session for a duration of 2 hrs. duration was organized with experts from Axens, UOP, convener and Shri Mohan Lal on the panel. A Refinery visit was organized at the end of the 2 day event.

### Water Study workshop cum meeting at CHT

A workshop cum meeting on ongoing "Water Consumption Study by EIL" was organized by CHT on 30<sup>th</sup> April 2019 which was attended by representatives from EIL, CHT and IOCL. The objective of the meeting was to ensure a better clarity in data sharing in between EIL and participating refineries. EIL also made a presentation on various input data received as well as the complete status of the ongoing study along with additional inputs required from the refineries. CHT and EIL in consultation with CHT had a fruitful session on future course of action to be adopted for early completion of the study to enable fixation of water consumption norms.

### Presentation by PTC on Grid Power Utilization

PTC made a detailed presentation at CHT on 10<sup>th</sup> May 2019 addressing the various aspects of grid power import in Indian Refineries. The session was mainly interactive where participants were apprised of the major benefits of power import along with major challenges and impediments which must be addressed to make the power import option economical for industries instead of their own captive power plants. It also highlighted the various taxation and pricing aspects of grid power import.

### 13<sup>th</sup> Activity Committee Meeting on Hydroprocessing & Hydrogen generation

13<sup>th</sup> Activity Committee Meeting was organized by CHT jointly with BORL. The meeting was inaugurated by Shri S.S. Sunderajan, MD, BORL in presence of Chief operating officer, Shri Abhai Raj Bhandari and Chief Financial Officer, Shri Manoj Heda & other senior officials of BORL and CHT. The key note address was delivered by Shri Brijesh Kumar, Advisor (Tech.), CHT.

The meeting was attended by 100 delegates. The convener of the meeting was Sri A.P. Raghav, VP, BORL. Six licensors viz., CLG, UOP, Axens, Haldor Topsoe, Technip and KBR made presentations, four of whom made multiple presentations. Presentations were also made by Catalyst vendors viz., Johnson Matthey and Sud-chemie. The ACM was represented by all the Refineries, R&D centres of IOC, BPC, HPC, IIP & EIL. In all 47 presentations were made in the 3 day event. On the second day, Q&A session was organised with convener, Licensors viz., UOP, Axens and Haldor Topsoe and Sud-chemie on the Q&A Panel.