

उ.प्रौ.के./जीसी/38/ 2232

CHT/GC/38/ 2232

दिनांक: 15 जनवरी, 2020

Date: 15 January, 2020

To,

उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल के माननीय अध्यक्ष महोदय एवं सभी सदस्यगण (संलग्न सूची के अनुसार)
Chairman and Members, Governing Council of Centre for High Technology (As per list enclosed)

महोदय,

Dear Sir,

विषय: उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल की 38वीं बैठक का कार्यवृत्त

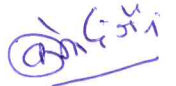
Sub: Minutes of 38th Meeting of the Governing Council (GC) of CHT

दिनांक 27 दिसम्बर 2019 को सभा कक्ष, पेट्रोलियम और प्राकृतिक गैस मंत्रालय, शास्त्री भवन, नई दिल्ली में सचिव, पेट्रोलियम और प्राकृतिक गैस मंत्रालय की अध्यक्षता में सम्पन्न हुई उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल की 38वीं बैठक का अनुमोदित कार्यवृत्त आपकी सूचना और आवश्यक कार्रवाई हेतु संलग्न किया जा रहा है।

Please find enclosed the duly approved Minutes of the 38th Meeting of Governing Council (GC) of CHT held on 27th December 2019 in the Conference Room, MoP&NG, Shastri Bhawan, New Delhi, under the Chairmanship of Secretary, P&NG, for kind information and necessary action.

भवदीय,

Yours sincerely,



(के. के. जैन)

कार्यकारी निदेशक

सदस्य-सचिव, गवर्निंग काउंसिल

(K.K. Jain)

Executive Director

Member-Secretary, Governing Council - CHT

संलग्न: यथा उपर्युक्त

Encl.: As above

MEMBERS OF THE GOVERNING COUNCIL OF CHT

1. **Dr. M.M. Kuttly** Chairman
Secretary
Ministry of Petroleum & Natural Gas
Shastri Bhawan
New Delhi-110 001
2. **Shri Rajesh Aggarwal**
Additional Secretary & Financial Adviser
Ministry of Petroleum & Natural Gas
Shastri Bhawan
New Delhi-110 001
3. **Shri Sunil Kumar**
Joint Secretary (R)
Ministry of Petroleum & Natural Gas
Shastri Bhawan
New Delhi-110 001
4. **Shri Amar Nath**
Joint Secretary (E & CVO)
Ministry of Petroleum & Natural Gas
Shastri Bhawan
New Delhi-110 001
5. **Shri Ashish Chatterjee**
Joint Secretary (GP & M)
Ministry of Petroleum & Natural Gas
Shastri Bhawan
New Delhi-110 001
6. **Shri Niranjana Kumar Singh**
Secretary
Oil Industry Development Board
OIDB Bhawan
Plot No. 2, Sector-73
NOIDA – 201 301
7. **Shri Rohit Mathur**
Director (S, CC & FP)
Ministry of Petroleum & Natural Gas
Shastri Bhawan
New Delhi-110 001

8. **Shri Sanjiv Singh**
Chairman
Indian Oil Corporation Ltd.
3079/3, Sadiq Nagar
J.B. Tito Marg
New Delhi – 110 049
9. **Shri D. Rajkumar**
Chairman & Managing Director
Bharat Petroleum Corporation Ltd
Bharat Bhawan
4 & 6 Currimbhoy Road
Ballard Estate
Mumbai-400 001
10. **Shri M.K. Surana**
Chairman & Managing Director
Hindustan Petroleum Corporation Ltd.
Petroleum House
17, Jamshedji Tata Road
Mumbai-400 020
11. **Dr. Ashutosh Karnatak**
CMD & Director (Projects)
GAIL (India) Limited
16, Bhikaiji Cama Place
R.K. Puram
New Delhi-110 066
12. **Shri J.C. Nakra**
Chairman & Managing Director
Engineers India Ltd.
El Bhawan
1, Bhikaiji Cama Place
New Delhi-110 066
13. **Shri S.N. Pandey**
Managing Director
Chennai Petroleum Corporation Ltd.
536, Anna Salai, Teynampet
Chennai-600 018

14. Shri M. Venkatesh
Managing Director
Mangalore Refinery & Petrochemicals Ltd.
Regd. Office: Kuthethoor
P.O. Via Katipalla
Mangaluru - 575 030

15. Shri S.K. Barua
Managing Director
Numaligarh Refinery Limited
122A, R.G. Barua Road
Guwahati – 781 005

16. Dr. Anjan Ray
Director
Indian Institute of Petroleum
P.O. Mohkampur
Dehradun-248 005

17. Shri K.K. Jain
Executive Director
Centre for High Technology
9th Floor, Tower-A, OADB Bhawan
Sector-73
NOIDA – 201 301

Member Secretary

2nd January 2020

Minutes of the 38th Meeting of the Governing Council (GC) of Centre for High Technology (CHT) held on 27th Dec'19 in the Conference Room, MoP&NG, Shastri Bhawan, New Delhi

- 1.0 Dr. M.M. Kutty, Secretary, P&NG and Chairman of the Governing Council (GC) of CHT chaired the Meeting. The list of participants is enclosed as **Annexure-1**.
- 2.0 Shri K. K Jain, Executive Director, CHT and Member-Secretary of the GC, welcomed the Chairman & Members of the GC and other participants to the Meeting.
- 3.0 The Minutes of the 37th meeting of the Governing Council held on 8th Aug'19 was circulated to the Members vide letter No. CHT/GC/37/969/1877 dated 27th Aug'19. Subsequent amendment of item no 5.2 of MoM (HCNG Proposal of IOC R&D) was circulated vide letter No. CHT/GC/37/2033 dated 5th Nov'19. As no further comments received, the same were confirmed and adopted by GC.

4.0 In-principle approval of Project Proposals under PM JI-VAN Yojana

ED (CHT) informed about salient points of PM JI-VAN Yojana, which was notified in the Gazette on 8th March'19. Six proposals for commercial projects and one proposal for demonstration project received against Request for Selection (RFS) issued by CHT. CHT informed that project recommended by SAC are to be approved by Steering Committee of CHT headed by Secretary, P&NG.

Governing Council enquired the rationale of putting the proposal for approval by Governing Council. ED (CHT) clarified that as there is no Steering Committee of CHT, the proposals recommended by SAC are put up to GC for approval as CHT functions under the overall guidance and supervision of Governing Council headed by Secretary, P&NG.

GC advised to constitute Steering Committee of CHT for PM JI-VAN Yojana.

(Action: CHT/MoP&NG)

5.0 Proposal on 'Fuel Cell buses based on H2 produced from Multiple Pathways: IOCL/ KPIT / IISc'

Director (R&D) presented the proposal on integrated development & demonstration of commercially viable Fuel Cell buses based on Hydrogen produced from Multiple Pathways. The overall budget of the program is Rs. 296.66 crore out of which Rs 138.32 crore is being sought for funding.

Governing Council advised to put up the proposal again after deliberation with all the stakeholders along with additional information on the following:

1. Plan for utilization of 15 buses post completion of the project

2. Royalty sharing formula and IPR
3. Tangible and intangible benefits
4. Tie up with Commercial Partner viz. vehicle manufacturer as well as transport operators

Action: IOCL (R&D)

6.0 CHT Budget:

ED (CHT) presented the CHT budget (RBE for 2019-20 & BE for 2020-21) as under:

	Particulars	2018-19	2019-20			2020-21
		Actual	BE	RBE	April-Dec	BE
A	Revenue Expenditure					
	Salary	9.00	11.00	9.26	5.41	12.00
	Other than Salary	1.67	2.50	1.77	0.99	2.00
	Sub-total (A)	10.67	13.50	11.03	6.41	14.00
B	Capital Expenditure	0.08	0.10	0.20	0.09	0.37
C	Special Studies	2.77	9.07	8.76	3.21	5.00
D	R&D Projects					
	R&D Projects	10.43	5.31	4.40	0.31	6.65
E	TOTAL EXPENDITURE (A+B+C+D)	23.95	27.98	24.39	10.02	26.02

GC deliberated and approved the above budget.

7.0 Development of Water Consumption Norms and Reduction of Water Footprint at PSU Refineries

CHT informed that in the 37th GC meeting, CHT was advised to prepare a base paper on identified initiatives in consultation with the refineries and submit the same to MoP&NG. Note on short and long term ideas with quantified savings and Pilot studies required for technology demonstration was forwarded to MoP&NG on 6th Sept'19. EIL shall submit the final report after refineries comment on the draft report.

GC enquired if there are any global norms for the recycle water percentage on total water intake in a refinery. CHT replied that the same has been incorporated in the scope of Benchmarking study by Solomon cycle 2020 onwards.

CHT informed that a meeting shall be held at CHT in Feb'20 to finalize the roadmap of implementation of ideas along with estimated savings.

GC advised refineries to prepare quarterly and annual reduction plan implementable within 2 years (Short term) and submit the same to MoP&NG.

Action: EIL/Refineries/ CHT

8.0 Study on Reduction of Steam Network at Refineries

CHT informed that a matrix of implementable best practices proposed by M/s KBC have been circulated to the refineries for compliance as well as implementation plan.

GC took a note of the above.

Action by : Refineries

4.6 Refinery Performance Improvement Programme (RPIP) for PSU Refineries

CHT informed that phase-I study under RPIP is under progress across the 7 refineries with estimated benefits of Rs 3172 Crore. Phase-II shall be taken up for IOCL Barauni, Gujarat, Haldia, Bongaigaon, Guwahati, Digboi, CPCL and NRL.

GC took a note of the above.

Action by: CHT/Refineries

4.7 Performance Benchmarking Study of PSU refineries

CHT informed that the study outcome for 2018 cycle has been presented to Refineries as well as MoPNG. All activities related to study have been completed.

CHT informed that all refineries have confirmed participation in 2020 cycle study by M/s Solomon.

GC took a note of the above

Action by: CHT

4.8 Performance Benchmarking Study for PSU Pipelines

ED (CHT) informed that study is completed and final Study Result presentation is planned on 10th Feb'20.

GC took a note of the above.

Action: CHT

The meeting ended with thanks to chair and participants.

Annexure-1

**38th Meeting of the Governing Council (GC) of Centre for High Technology (CHT)
held on 27th Dec'19 in the Conference Room, MoP&NG, Shastri Bhawan, New Delhi**

Participants

1. Dr. M.M. Kutty, Secretary, MoP&NG – Chair
2. Shri Amar Nath, JS (E& CVO)
3. Shri Ashish Chatterjee, JS (GP &M)
4. Shri Sunil Kumar, JS(R)
5. Shri Niranjana Singh, Secretary, OADB
6. Shri M.K. Surana, CMD, HPCL
7. Shri R. Ramachandran, Director (R), BPCL
8. Shri S.M. Vaidya, Director (R), IOCL
9. Shri S.N. Pandey, MD, CPCL
10. Shri S.K. Barua, MD, NRL
11. Shri L.K. Vijh, Director (T), EIL
12. Shri Manoj Jain, Director (BD), GAIL
13. Shri D.V. Shastri, ED, GAIL
14. Shri K.K. Jain, ED, CHT
15. Shri P. Raman, Director, CHT
16. Shri S.K. Varshney, JD, CHT
17. Shri Sumit Jha, JD, CHT
18. Shri Satyaveer Singh, JD, CHT