



उ.प्रौ.के./एसपी/जी.सी/2288  
CHT/ASP/GC

दिनांक : 02.11.2010

Date : 02<sup>nd</sup> November 2010

सेवा में /To

उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल/जनरल बॉडी के सभी सदस्यगण (संलग्न सूची के अनुसार)  
All Members of the Governing Council/General Body of CHT (As per list enclosed)

प्रिय महोदय,/Dear Sir,

विषय : उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल की 29वीं बैठक का कार्यवृत्त

Sub : Minutes of 29<sup>th</sup> Meeting of the Governing Council (GC) of CHT

दिनांक 12 अक्टूबर 2010 को शास्त्री भवन में पेट्रोलियम और प्राकृतिक गैस मंत्रालय के सचिव महोदय की अध्यक्षता में सम्पन्न उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल की 29वीं बैठक का अनुमोदित कार्यवृत्त आपकी सूचना और आवश्यक कार्रवाई के लिए संलग्न किया जा रहा है।

Please find enclosed the duly approved Minutes of the 29<sup>th</sup> Meeting of Governing Council (GC) of CHT held on 12th October 2010 at Shastri Bhavan, MOP&NG, New Delhi, under the Chairmanship of Secretary, P&NG, for kind information and necessary action.

धन्यवाद,  
Thanking you,

भवदीय,  
Yours faithfully,

बी.डी. घोष

(बी.डी. घोष)

कार्यकारी निदेशक

सदस्य - सचिव, गवर्निंग काउंसिल

(B.D. Ghosh)

Executive Director /

Member- Secretary, Governing Council-CHT

संलग्न : यथा उपर्युक्त

Encl. : As above

**Members of the Governing Council / General Body of CHT**

1. Shri S. Sundareshan,  
Secretary,  
Ministry of Petroleum & Natural Gas,  
Shastri Bhavan,  
**New Delhi-110 001**
  
2. Shri Sudhir Bhargava,  
Additional Secretary,  
Ministry of Petroleum & Natural Gas,  
Shastri Bhavan,  
**New Delhi-110 001**
  
3. Shri P. K. Sinha,  
Additional Secretary & FA,  
Ministry of Petroleum & Natural Gas,  
Shastri Bhavan,  
**New Delhi-110 001**
  
4. Shri L. N. Gupta,  
Joint Secretary (Refineries),  
Ministry of Petroleum & Natural Gas,  
Shastri Bhavan,  
**New Delhi-110 001**
  
5. Shri Apurva Chandra,  
Joint Secretary (Marketing),  
Ministry of Petroleum & Natural Gas,  
Shastri Bhavan,  
**New Delhi-110 001**
  
6. Shri A. Goswami,  
Under Secretary,  
Ministry of Petroleum & Natural Gas,  
Shastri Bhavan  
**New Delhi-110 001**



12. Shri B. C. Tripathi,  
Chairman & Managing Director,  
Gas Authority of India Limited,  
16, Bhikaiji Cama Place,  
R.K.Puram,  
**New Delhi-110 066**
13. Shri A. K. Purwaha,  
Chairman & Managing Director,  
Engineers India Ltd.  
EIL Bhawan, 1, Bhikaiji Cama Place,  
**New Delhi-110 066**
14. Dr. B. K. Das,  
Managing Director,  
Numaligarh Refinery Limited,  
6<sup>th</sup> Floor, Tolstoy House,  
15 - 17, Tolstoy Marg,  
**New Delhi-110001**
15. Shri U. K. Basu,  
Managing Director,  
Mangalore Refinery & Petrochemicals Ltd.,  
Regd. Office: Kuthethoor,  
**P.O. Via Katipalla,**  
Mangalore - 575 030
16. Dr. M. O. Garg,  
Director,  
Indian Institute of Petroleum,  
P.O. Mohkampur,  
**Dehradun-248 005**
17. Shri B.D.Ghosh,  
Executive Director / Member - Secretary, Governing Council,  
Centre for High Technology,  
5th Floor, Core -6, SCOPE Complex,  
Lodhi Road,  
**New Delhi-110 003**

**Minutes of the 29<sup>th</sup> Meeting of the Governing Council (GC) and  
AGM of Centre for High Technology (CHT) held on 12<sup>th</sup> October  
2010 at Shastri Bhavan, MOP&NG, New Delhi**

- 1.0 Shri S. Sundareshan, Secretary, P&NG chaired the Meeting. The list of the participants is **annexed**.
- 2.0 Shri B.D.Ghosh, Executive Director, CHT welcomed the Chairman and Members of the Governing Council and other participants to the Meeting.
- 3.0 **Confirmation of the Minutes of the last (28<sup>th</sup>) Governing Council (GC) meeting** (Agenda Item No. 1.0):

Secretary invited comments from the GC members. Since no comments were received on MOM of 28<sup>th</sup> GC, ED CHT requested to confirm the minutes.

*The Minutes of the Meeting circulated by CHT vide letter No. CHT/AKA/GC/1492 dated 12<sup>th</sup> October 2009 were confirmed and adopted by GC.*

- 4.0 **Review of Action Points of the 28<sup>th</sup> GC meeting** (Agenda Item No. 2.0):

The following points emerged out of discussions on Actions:

- 4.1 **Integrated Refinery Business Improvement Programme (IRBIP) Phase-I at BPCL Kochi, IOC Mathura, CPCL Manali and HPCL Visakh through Shell GSI** (Agenda Item No. 2.1):

- 4.1.1 ED, CHT explained the status of the Programme being executed at aforesaid four refineries including benefits, schedule of final completion under IRBIP Phase-I. He intimated that the cumulative net benefits accrued in all 4 refineries is 37.64 Million US\$/year. ED, CHT also informed the GC that the Programme has been



successfully completed at Kochi & Mathura Refineries along with third party audit of closed projects. The Programme at Manali & Visakh Refineries is expected to be concluded by March 2011.

4.1.2 All the participating Oil Companies also confirmed that the Programme has really been useful in improving the refinery performance.

4.1.3 In response to the query raised by AS&FA in respect of refund of 1st instalment paid through OIIB fund, ED, CHT informed that BPCL-Kochi has already paid whereas the same is pending for IOCL-Mathura.

4.2 **Manpower Requirement of CHT** (Agenda Item No.2.2):

ED, CHT informed that subsequent to the meeting taken by the then Additional Secretary, MoP&NG with Oil Companies, the manpower of CHT has been strengthened with joining of 5 technical officers from IOCL, HPCL & BPCL. He informed that number of technical officers have gone up from 10 to 15 and thanked Chairman for the support.

4.3 **Integrated Refinery Business Improvement Programme (IRBIP) under Phase-II** (Agenda Item No.2.3):

4.3.1 ED, CHT explained the modus-operandi & methodology followed for award of Contract under Phase - II (in line with the advice of MoP&NG vide letter F.No. R-30011/2/2006/OR.II dated 18.02.2009). Global Notice for Expression of Interest (EOI) was issued. Out of four parties responded to the EOI, three were short-listed by CHT & participating refineries based on the qualification criteria.

4.3.2 Further, as advised in the 28th GCM, confirmation of participation was received from HPCL-Mumbai, BPCL-

Mumbai & MRPL-Mangalore refineries. Subsequently, Bid document was finalised jointly with participating refineries and Invitation To Bid (ITB) was issued to M/s KBC, Shell GSI & Exxon Mobil, under two bid system. M/s KBC & Shell GSI submitted the bids while M/s Exxon Mobil regretted due to non-availability of manpower/resources.

4.3.3 It was informed that the qualified bids were evaluated and M/s Shell GSI was found to be the successful L1 bidder.

4.3.4 CHT sought the approval of GC for award of work, signing of Agreement (Contract) with the successful bidder and payment of first instalment.

*GC noted and observed that CHT may execute IRBIP Phase-II in accordance with prescribed procedures.*

4.4 **Proposal for Technical Services Agreement (TSA) with world renowned and reputed consultant (Agenda Item No. 2.8):**

4.4.1 ED, CHT informed that as advised in the 28<sup>th</sup> GCM, CHT sought explicit requisition from Oil Companies for TSA and received positive response from BPCL, HPCL & EIL w.r.t. engaging a competent agency for the same. Director (R), IOCL informed that they already have own tie-ups with Licensors.

4.4.2 ED, CHT highlighted the benefits derived during the earlier TSA's and need for having such back up arrangements for the industry/CHT/ministry. This view was also concurred by BPCL, HPCL, EIL

4.4.3 It was proposed that CHT may pay the minimum fixed/retention fee, whereas the participating refineries, EIL, GAIL will share the balance fees as per services availed.



*GC accorded its approval to CHT for engaging a competent agency on global tender basis, with CHT to bear the minimum fixed/retention fee and the PSUs to bear the balance fee as per services availed.*

**4.5 Commercialisation of CHT / OIDB sponsored R&D Projects/Technologies (Agenda Item No. 2.9):**

4.5.1 ED, CHT informed that based on the recommendations given by the Working Group constituted on "Acceptance of Technologies" in their report submitted at the 66th SAC meeting held on 30th November 2009 and compendium of CHT/OIDB projects prepared and presented by CHT in 67th SAC Meeting held on 22.05.2010, constitution of an Expert Committee was proposed.

4.5.2 It was informed that MoP&NG has now constituted a committee, under the chairmanship of Director (R), IOCL for facilitating commercialisation of indigenous technologies, development of engineering support for marketing and acceptance by the industry based on the recommendations given by the Working Group.

4.5.2 Director (R), IOCL, Chairman of the Committee suggested that tax incentives & duty exemptions, etc. may be allowed to the first user of unproven indigenous technology for covering the risk involved. He also suggested that a portion of the expenditure involved be funded by CHT/OIDB. It was also requested to include OIDB nominee in this committee.

4.5.3 Director, IIP stated that risk factors for these indigenous technologies can be eliminated with installation of suitable size demonstration/pilot plants, particularly for those projects which are ready for commercialization. He



desired that the Committee can look into this aspect with OADB support.

*GC agreed to the suggestions and to provide necessary support to the Committee for commercialization efforts.*

**4.6 Proposal for organizing 16<sup>th</sup> Refinery Technology Meet (RTM) (Agenda Item No. 2.10):**

ED, CHT informed that due to pre-ponement of Petrotech - 2011 to Oct/Nov 2010, it is proposed to organise the 16<sup>th</sup> Refinery Technology Meet (RTM) jointly with IOCL during 10-12/17-19 February 2011 at Kolkata. The expenditure for organising RTM is expected to be Rs. 30 Lakh, which will be equally shared by CHT and IOCL.

*GC accorded its approval to CHT for organising 16<sup>th</sup> RTM jointly with IOCL at Kolkata in February 2011, with a contribution of Rs. 15 Lakh each from CHT and IOCL.*

**4.7 Proposal for Performance Audit of Refineries (Agenda Item No. 2.11):**

CHT informed that it along with EIL has submitted a proposal to carry out energy efficiency improvement study to NRL. Director (T), NRL confirmed that the work would be awarded shortly.

ED, CHT informed that in line with earlier Joint Energy Audit (JEA) conducted by CHT in 1992-92 and 2001-02, it is proposed to carry out another round of audit along with EIL and refinery team.

*GC approved the CHT proposal to undertake Performance Audit of PSU refineries to identify gaps for improvements through expert team comprising of CHT, EIL & Refineries*

**5.0 New Proposals (Agenda Item No. 3.0):**

**5.1 Performance Benchmarking of PSU refineries (Agenda Item No. 3.1):**



5.1.1 CHT informed that performance benchmarking of PSU refineries was carried out earlier through Shell GSI for 2003-04 & 2004-05. Worldwide, benchmarking exercise is taken up every alternate year and under the same criteria the Indian refineries are over due.

5.1.2 It was also informed that Planning Commission is repeatedly insisting on benchmarking of Indian refineries. CHT propose to undertake similar exercise on centralised basis for the year 2010 in line with next round of benchmarking carried out by M/s Solomon Associates.

5.1.3 Director (R) , IOCL indicated that some of the refineries performance is disturbed due to commissioning/ stabilization of new units and may not be appropriate for them to participate. BPCL, HPCL expressed the need for this exercise and agreed to participate. It was told that the refineries participating in IRBIP programme may review their participation

5.1.4 CHT proposed to take up benchmarking of all PSU refineries for 2010 on global tender basis

*GC accorded its approval to CHT for engaging a suitable agency for benchmarking on centralised basis through global tendering.*

5.2 *MOU between JASE-World and CHT in the field of Energy Efficiency* (Agenda Item No. 3.2):

CHT informed that a Japanese delegation (JASE-W) under METI had offered energy conservation/efficient technologies for the benefit of Indian Refining Industry and an MOU is proposed to be signed for exploring the benefits through exchange of information, knowledge, database, etc.



AS&FA advised CHT to have fresh look at the MOU since the same appears to be more inclined towards JASE-W interests and did not cover mutually beneficial areas. The business proposition seems to be one sided.

*GC deferred approval for signing of MOU and advised CHT to re look the Indian interest for a balanced and revised agreement*

**5.3 Publication of Refinery Best Practices Compendium** (Agenda Item No. 3.3):

ED, CHT informed that each officer has adopted refineries for better monitoring & support as advised during the review meeting taken by JS(R), MoP&NG. The objective is to collect and collate information / data for reference, benchmarking & improvements.

A compendium has been planned to be published comprising of best refinery practices of each refinery and this exercise will be completed by 31st March 2011.

*GC appreciated the effort and look forward for more such publications*

**5.4 Two day Industry level workshop on "Transportation of Oil & Gas through Cross Country Pipelines"** (Agenda Item No. 3.4):

CHT proposed to organise the workshop jointly with IOC that was earlier scheduled to be held in July 2010. AS & FA suggested a re-look at the theme to make it more meaningful and relevant for hydrocarbon transportation.

ED, CHT elaborated the contents of the Workshop which has taken into consideration most of the aspects related to Pipeline



technology and advancements. CHT proposed to hold the programme before end of the calendar year at a suitable venue.

*Governing Council accorded its approval for organising the 2-day pipeline workshop with an appropriate theme.*

5.5 **Mandate for taking up new activities** (Agenda item: New):

5.5.1 CHT proposed to take up activities in new areas, like (i) Energy Performance Evaluation of **Petrochemicals & Gas Separation Units** - CHT & EIL to jointly develop Energy Factors of Process Units & Calculation of Specific Energy Consumption (ii) Selective Loss & Emission studies in Product Handling & Storage in Refineries & Terminals, (iii) Quality Control & Quality Give-away in Product transportation & Supply chain (iv) Energy & Environment Audit of Refineries in line with OISD Safety Audit.

5.5.2 Chairman observed that areas proposed for item (ii) and (iii) are very large across the entire supply chain which will be difficult to handle and need not be pursued

5.5.3 Director(R), IOCL remarked that environment audit is already part of ESA of OISD and there is no need to duplicate. He felt that CHT to continue its focus on energy improvements and process technologies. He agreed to the proposal of CHT to conduct another round of Joint Energy Audit (JEA).

*Governing Council accorded approval to the CHT proposal for Energy Performance Evaluation of Petrochemicals & Gas Separation Units and Joint Energy Audit (JEA) of refineries.*

6.0 **Research & Development Activities** (Agenda Item No.4.0):



6.1 ED, CHT briefed the Governing Council about the activities of Scientific Advisory Committee (SAC) on Hydrocarbons of MOP&NG, Hydrogen projects recommended for funding from Hydrogen Corpus Fund and CTL project for funding through OADB / CHT.

6.2 ED, CHT briefed about the strategically important on-going Synthetic Aviation Lubricant (SAL) project funded both by CHT and participating organisations viz. IICT, IOCL-R&D, NAL, HAL, GTRE and CEMILAC which is expected to be completed by December 2010.

6.3 Governing Council was also apprised about the progress of other ongoing R&D projects funded by CHT / OADB. It was also informed that a total of 3 R&D projects have been completed and 5 out of 7 on-going projects are at final stage of completion.

7.0 **Other Activities of CHT** (Agenda Item No.5.0):

7.1 **Report on other activities of CHT** (Agenda Item No. 5.2 and 5.3):

Other activities undertaken by CHT during the year 2009-10 and April-September 2010 were also presented. These included Natural Gas requirements for supply from KG-D6 to refineries, Comments on Draft National Summary Report, March 2010 on Air Quality Monitoring, Emission Inventory and Source Apportionment Study of Indian cities, Preparation of Guidelines for taking up projects under National Clean Energy Fund (NCEF), Activity Committee Meetings, CHT publications, MOP&NG Awards and analysis of physical performance data of Refineries for QPR meeting at MOP&NG etc.

8.0 **Finance** (Agenda Item No. 6.0):

8.1 **Adoption of Annual Audited Accounts for the financial year 2009-10** (Agenda Item No. 6.1):



Governing Council reviewed and approved the Annual Accounts as placed by CHT for 2009-10 and adopted the following resolution:

*"Resolved that the Annual Accounts of the Centre for High Technology for the financial year 2009-10 as audited and reported upon by M/s Aggarwal Vineeta & Co. Chartered Accountants and now placed before the Governing Council are approved".*

8.2 Revised Budget Estimates for 2010-11 and Budget Estimates for 2011-12 (Agenda Item No. 6.2):

*Governing Council approved the Revised Budget Estimates (RBE: 2010-11) and Budget Estimates (BE: 2011-12) of Centre for High Technology and tabulated below:*

(Figures in Rs. Lakhs)

Particulars	BE 2010-11	RBE 2010-11	BE 2011-12
Revenue Expenditure	654.60	740.50	681.60
Capital Expenditure	7.00	8.00	7.00
Projects:			
(a) R&D Projects	269.99	548.35	130.18
(b) Special Studies	--	300.00	200.00
<b>Total</b>	<b>931.59</b>	<b>1596.85</b>	<b>1018.68</b>

8.3 Appointment of Auditors to Audit the Accounts of CHT for the year 2010-11 (Agenda Item No. 6.3):

The GC approved the proposal to appoint M/s Aggarwal Vineeta & Co, Chartered Accountant, 406-A, Indraprastha Tower; 6 Wazirpur Commercial Complex, Delhi-110 052 as Auditors of CHT for the Financial Year 2010-11 and passed the following resolution:

*"Resolved that M/s Aggarwal Vineeta & Co, Chartered Accountants, 406-A, Indraprastha Tower; 6 Wazirpur Commercial Complex, Delhi-110 052 be appointed as Auditor to audit the Accounts of Centre for High Technology, Tax Audit and proprietary audit for the Financial Year 2010-11.*

The meeting ended with vote of thanks to the Chair.



## Annexure

List of participants of 29<sup>th</sup> Governing Council (GC) Meeting & AGM (2009-10) held on 12.10.2010 at MOP&NG, Shastri Bhavan, New Delhi:

S. No.	Name, S/Shri	Designation	Organisation
1.	S.Sundareshan	Secretary, P&NG	MoP&NG
2.	P.K.Sinha	AS&FA	MOP&NG
3.	Sudhir Bhargava	Additional Secretary	MOP&NG
4.	Apurva Chandra	JS (M)	MOP&NG
5.	A. Goswami	US	MOP&NG
6.	Arunkumar	Secretary	OIDB
7.	B.N.Bankapur	Director (R)	IOC
8.	R.K.Singh	Director (R)	BPCL
9.	K. Murali	Director (R)	HPCL
10.	R.N. Mathur	CM-Cordn	HPCL
11.	K. Balachandran	MD	CPCL
12.	D.Chakravarty	Director (T)	NRL
13.	Dr.M.O.Garg	Director	IIP
14.	Ajay Deshpande	GM (R&D)	EIL
15.	Sanjay Dixit	GM (CCC)	MRPL
16.	G.K. Dey	CTSM	IOC
17.	B.D.Ghosh	Executive Director	CHT
18.	R. Krishnamurthy	Director	CHT
19.	O.P. Raghav	Director	CHT
20.	Rakesh Narula	Addl. Director	CHT
21.	Avinash Pathak	Addl. Director	CHT
22.	C.S.S.Narayana	Joint Director	CHT
23.	S.Chaudhary	Joint Director	CHT
24.	Subhasish Bose	Joint Director (Admn.)	CHT
25.	V.K.Suri	Joint Director (F)	CHT