

उ.प्रौ.के./आर.के./जी.सी./  
CHT/RK/GC/2947

दिनांक: 13.12.2011  
Date : 13<sup>th</sup> December, 2011

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 30वीं बैठक का कार्यवृत्त ।**

**Sub.: Minutes of 30<sup>th</sup> Meeting of the Governing Council (GC) of CHT.**

दिनांक 4 नवम्बर, 2011 को शास्त्री भवन में पेट्रोलियम और प्राकृतिक गैस मंत्रालय के सचिव महोदय की अध्यक्षता में सम्पन्न उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल की 30वीं 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 30<sup>th</sup> Meeting of Governing Council (GC) of CHT held on 4<sup>th</sup> November, 2011 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  
13.12.11

(बी.डी.घोष)

कार्यकारी निदेशक

सदस्य-सचिव, गवर्निंग काउंसिल

B.D. Ghosh  
(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 G.C. Chaturvedi  
Secretary  
Ministry of Petroleum & Natural Gas  
Shastri Bhawan  
Dr Rajendra Prasad Road  
New Delhi - 110 001
2. Shri P.K. Sinha  
Special Secretary and FA  
Ministry of Petroleum & Natural Gas  
Shastri Bhawan  
Dr Rajendra Prasad Road  
New Delhi - 110 001
3. Shri Sudhir Bhargava  
Additional Secretary  
Ministry of Petroleum & Natural Gas  
Shastri Bhawan  
Dr Rajendra Prasad Road  
New Delhi - 110 001
4. Shri D.N. Narasimha Raju  
Joint Secretary (E)  
Ministry of Petroleum & Natural Gas  
Shastri Bhawan  
Dr Rajendra Prasad Road  
New Delhi - 110 001
5. Shri L.N. Gupta  
Joint Secretary (R)  
Ministry of Petroleum & Natural Gas  
Shastri Bhawan  
Dr Rajendra Prasad Road  
New Delhi - 110 001
6. Shri Vivek Kumar  
Joint Secretary (I/C & M)  
Ministry of Petroleum & Natural Gas  
Shastri Bhawan  
Dr Rajendra Prasad Road  
New Delhi - 110 001



7. Shri Arun Kumar  
Secretary  
Oil Industry Development Board  
OIDB Bhawan  
Plot No. 2, Sector - 73  
Noida (UP) - 201 301
8. Shri B.C. Tripathi  
Chairman & Managing Director  
GAIL (India) Ltd.  
16, GAIL Building  
Bhikaiji Cama Place  
New Delhi - 110 066
9. Shri R.S. Butola  
Chairman  
Indian Oil Corporation Ltd.  
3079/3, Sadiq Nagar  
J.B. Tito Marg  
New Delhi - 110 049
10. Shri K. Balachandran  
Managing Director  
Chennai Petroleum Corporation Ltd.  
536, Anna Salai, Teynampet  
Chennai - 600 018
11. Shri R.K. Singh  
Chairman & Managing Director  
Bharat Petroleum Corporation Ltd.  
Bharat Bhavan, 4 & 6, Currimbhoy Road  
Ballard Estate  
Mumbai - 400 001
12. Shri D. Chakravarty  
Managing Director  
Numaligarh Refinery Ltd.  
6<sup>th</sup> Floor, Tolstoy House  
15-17, Tolstoy Marg  
New Delhi - 110 001

13. Shri S. Roy Choudhury  
Chairman & Managing Director  
Hindustan Petroleum Corporation Ltd.  
Petroleum House  
17, Jamshedji Tata Road, P.B. No. 11041  
Mumbai - 400 020
14. Shri U.K. Basu  
Managing Director  
Mangalore Refinery & Petrochemicals Ltd.  
P.O. Kuthethoor, Via Katipalla  
Mangalore - 574 149
15. Shri A.K. Purwaha  
Chairman & Managing Director  
Engineers India Ltd.  
12th Floor, Engineers India Bhawan  
1, Bhikaiji Cama Place  
New Delhi - 110 066
16. Dr M.O. Garg  
Director  
Indian Institute of Petroleum  
P.O. IIP, Mohkampur  
Dehradun - 248 005
17. Shri B.D. Ghosh  
Executive Director & Member-Secretary, Governing Council  
Centre for High Technology  
OIDB Bhawan, Tower "A", 9th Floor  
Plot No. 2, Sector - 73  
Noida (UP) - 201 307



Minutes of the 30<sup>th</sup> Meeting of the Governing Council (GC) and AGM (2010-11) of Centre for High Technology (CHT) held on 4<sup>th</sup> November, 2011 in the office-chamber of Secretary, P&NG, Shastri Bhawan, New Delhi

- 1.0 Shri G.C. Chaturvedi, Secretary, P&NG, Govt. of India chaired the Meeting. The list of participants is annexed.
- 2.0 Shri B.D. Ghosh, Executive Director, CHT and Member-Secretary of the Governing Council (GC) welcomed the Chairman and Members of the GC and other participants to the Meeting.
- 3.0 Shri R. Krishnamurthy, Director, CHT presented a Brief Overview on CHT covering the Formation / Functioning, Vision / Mission Statements, Role & Functions, Major contributions of CHT in the areas of Energy Conservation and Management, Refinery Performance Evaluation and Improvement, R&D Initiatives, Product Quality Improvement, Technology Selection, Knowledge and Information Sharing, Special Studies, Auto Fuel Policy, Support Services and assistance to MOP&NG. It was also informed that CHT co-ordinates all the activities related to the Scientific Advisory Committee on Hydrocarbons of MOP&NG.
  - 3.1 With regard to the query made by Chairman on the overlapping role of CHT and PCRA in the area of Energy Conservation/Energy Audits, ED, CHT clarified that PCRA conducts Energy Audit of Refineries in a limited way like motor power consumption, steam trap leakage measurement etc. while CHT's audit covers the entire gamut of refinery operations including energy optimization of all process units, offsites, utilities etc. ED, PCRA also confirmed that they have more interaction with industries other than refineries. Chairman, GC opined that while PCRA can continue their activities on other industries, the Energy Conservation and Management in the Hydrocarbon Sector should be dealt by CHT.
  - 3.2 Chairman, GC also advised that CHT should be the nodal agency for all R&D activities in the hydrocarbon sector, including upstream and gas sector. In this regard, he advised



that the "Innovation Council" activities currently co-ordinated by ONGC should also be co-ordinated by CHT for the Hydrocarbon Sector.

**4.0 Confirmation of the Minutes of 29th (last) meeting of the Governing Council (Agenda Item 1.0)**

ED, CHT informed that no comments have been received from the members on the Minutes of the last GC Meeting and requested the GC to confirm the same.

The Minutes of the 29<sup>th</sup> GC Meeting circulated by CHT vide letter no. CHT/ASP/GC/2288 dated 2<sup>nd</sup> November, 2010 were confirmed and adopted by GC.

**5.0 Review of Action Points of the 29th Governing Council meeting (Agenda Item No. 2.0)**

The following points emerged out of discussions for Actions :

**5.1 Integrated Refinery Business Improvement Program (IRBIP) Phase-I at BPCL Kochi, IOCL Mathura, CPCL Manali and HPCL Visakh through Shell GSI (Agenda Item 2.1)**

5.1.1 ED, CHT informed that the IRBIP Phase-I programme was successfully concluded at BPCL Kochi, IOCL Mathura, CPCL Manali and HPCL Visakh refineries. Four projects of HPCL-Visakh necessitating shutdown would be taken up during December, 2011 by the refinery. So far, a cumulative net benefit of US \$ 48.2 million per annum has been realized and is expected to be more than US \$ 50 million per annum with completion of 4 projects at HPCL-Visakh. Inter-refinery team of experts have successfully conducted the 3rd Party Audit at all the four refineries and the IRBIP Phase-I programme was formally closed with EXCOM Meeting held on 23-09-2011.

5.1.2 Secretary, OIDB desired that the advance amount given to the refineries for the programme be refunded. ED, CHT informed that after the 3<sup>rd</sup> Party Audit, CPCL-Manali & HPCL-Visakh have been advised to refund the advance amount to



CHT/OIDB. It was confirmed that payments in respect of BPCL-Kochi and IOCL-Mathura have been refunded to OIDB except an amount of ₹ 13.7 lakh from IOCL-Mathura.

Governing Council advised that the outstanding amount of ₹13.7 lakh payable by IOCL-Mathura be refunded immediately to CHT/OIDB.

**5.2 Integrated Refinery Business Improvement Program (IRBIP) under Phase-II (Agenda Item No. 2.2)**

5.2.1 ED, CHT informed that under the IRBIP Phase-II programme, 3 more PSU Refineries viz. BPCL Mumbai, HPCL Mumbai and MRPL have been taken up. Shell GSI has been selected based on global tendering and joint evaluation by CHT and participating refineries in accordance with prescribed procedure. The Agreement with Shell GSI was signed by CHT on 17-02-2011. The total duration of the Programme is 36 months from signing of agreement which includes Assessment Phase and Implementation Phase (Implementation, Commissioning & Sustainability). The Operational Kick-off Workshop with participating refineries was held at Shell office, Bangalore in March 2011. Site-Assessment by Shell GSI has been successfully completed at BPCL-Mumbai in Aug 2011 and at HPCL-Mumbai in Oct 2011. Site assessment at MRPL is scheduled from end Nov 2011.

5.2.2 Chairman, while appreciating the initiative taken by CHT through 'Integrated Refinery Business Improvement Programme' for the 3 refineries, was of the opinion that same should be extended to other refineries as well. As regards participation of IOCL refineries in Phase-II, IOCL representative confirmed that their Haldia Refinery would be taking part in Phase-II Programme.

5.2.3 Chairman also advised CHT to look into possibilities of CHT and Refinery personnel getting suitable training during the execution of the Programme so that they can take up such Business Improvement Programmes at other refineries independently.



**5.3 Technical Services Agreement (TSA) with world renowned and reputed consultant (Agenda Item No. 2.3)**

5.3.1 ED, CHT informed that In line with the approval accorded in the 29<sup>th</sup> GC Meeting for engaging a world renowned consultant with desired capabilities, CHT floated enquiry for Expression of Interests (EOI) from interested parties for providing back-up services and consultancy on behalf of the industry & MOP&NG. Letter of Interest (LOI) has been received from two parties (Shell GSI and KBC Advanced Technology Pte Ltd.) After reviewing the same, CHT has prepared the Initial Tender for Bid (ITB) which is under finalisation. The final contract is expected to be lined up in two months.

**5.4 Commercialisation of CHT/OIDB sponsored R&D Projects / Technologies (Agenda Item No. 2.4)**

5.4.1 ED, CHT informed that the Committee constituted by MOP&NG, under the chairmanship of Director (R), IOCL to draw action plan to exploit commercialisation aspects of CHT/OIDB sponsored R&D Projects/technologies has suggested formation of Core group for short-listing the technologies having commercial potential. All the member institutions subsequently nominated their representative for the Core group and provided the feedback to CHT, indicating the technologies which could be deliberated further for commercialisation. The meeting of the Core group is to be held shortly to review the status and undertake future course of action.

**5.5 Organisation of 16th Refinery Technology Meet (RTM) (Agenda Item No. 2.5)**

5.5.1 ED, CHT informed that the 16<sup>th</sup> RTM, organized by CHT in association with IOCL, during 7<sup>th</sup> to 9<sup>th</sup> Feb, 2011 at Kolkata was a huge success. The theme of the RTM was "World Energy Order – New Frontiers in Refining". More than 450 delegates from India and abroad participated in the three day Meet. A total of 69 technical papers, including 22 papers from global leaders like, Shell, ExxonMobil, Chevron,



UOP, Axens, BASF, DuPont, Albemarle, KBR, Jacobs, Stone & Webster, GTC, Solomon were presented during the Technical Sessions. Poster Sessions were organised on all the 3 days of the Meet which covered 64 technical papers.

#### **5.6 Performance Audit of Refineries (Agenda Item No. 2.6)**

5.6.1 ED, CHT informed that as a part of Performance Audit of refineries, CHT in association with EIL, has regularly been carrying out in-depth Energy Efficiency Improvement Studies exercise at identified refineries. One such study is currently being carried out at Numaligarh Refinery Ltd. (NRL) with the objective to reduce fuel consumption and processing losses. The approach would be to set specific energy targets for process units through detailed energy audit of the refinery.

5.6.2 Data collection & reconciliation has just been completed and some Energy Conservation (ENCON) Schemes have also been discussed in the recent visit of EIL/CHT experts to the site. A draft report, summarising the present energy consumption status, potential savings, will be submitted to NRL and the whole exercise is expected to be concluded by December, 2011.

#### **5.7 Performance Benchmarking of PSU refineries (Agenda Item No. 2.7)**

5.7.1 ED, CHT informed that in line with the approval accorded by GC in the last meeting, the job of Benchmarking Study for 15 PSU refineries has just been awarded to M/s Solomon Associates, USA based on Global Tendering. To a query by CMD, BPCL with regard to the necessity for both IRBIP programme and Benchmarking Studies, ED, CHT explained that the objective of the two programmes are different. While Benchmarking Study will reveal the standing of the Indian refineries vis-à-vis regional/global leaders with respect to various Key Performance Indicators (KPIs) and identify performance gap areas, the IRBIP programmes will help the refineries in bridging the performance gap for improving the refinery margin, energy efficiency etc. through in-depth



process/operational study and developing/implementing improvement programmes. ED (R&D), HPCL and Director (T), MRPL also agreed with this view and elaborated on the utility and benefits of both Benchmarking and IRBIP programmes.

- 5.7.2 ED, CHT informed that the refineries have agreed for participation in the study for two consecutive years (2011-12 and 2012-13) as practiced by most of the refineries worldwide and to derive maximum cost advantage. The cost will be equitably shared by CHT and refineries as was done during the previous benchmarking exercise conducted through Shell GSI.

Governing Council took note of the action taken by CHT and the progress made thereof.

**5.8 Refinery Best Practices Compendium (Agenda Item No. 2.8)**

- 5.8.1 ED, CHT informed that each technical officer of CHT has adopted one/two refineries so as to keep abreast with the current status of the refineries and better monitoring & support. In this regard, the basic data/information pertaining to the refineries has been collected by the adopted officer. Further, a Compendium on Best Practices in FCCU operations has been prepared and is under finalisation for publication and circulation. Similar work for other major units shall also be undertaken.

Chairman conveyed his appreciation for such efforts by CHT and advised ED, CHT to complete the exercise at the earliest.

**5.9 Two day Industry level workshop on "Transportation of Oil & Gas through Cross-country Pipelines" (Agenda Item No. 2.9)**

- 5.9.1 ED, CHT informed that a 2-day Pipeline Workshop was organized by CHT in association with Indian Oil Corporation Ltd. on 7th and 8th July, 2011 at Kovalam, Trivandrum. The theme of the Workshop was "Advancements and



Challenges for Cross-country Pipelines – the Hydrocarbon Transportation Highways”. The Workshop was a grand success and in all 131 delegates from the oil and gas industry from India, viz. IOCL, HPCL, BPCL, ONGC, OIL, GAIL, RIL including senior executives participated in the Workshop. In addition to the Plenary Session, there were 4 Technical Sessions on i) Laying of Pipelines ii) Operations and Optimisation iii) Integrity & Reliability and iv) an exclusive session devoted to pipeline case studies. A total of 18 technical papers, including 5 case studies, were presented during the workshop

**5.10 Energy Performance Evaluation of Petrochemicals & Gas Separation Units and Joint Energy Audit (JEA) of refineries (Agenda Item No. 2.10)**

**5.10.1 Energy Performance Evaluation of Petrochemicals & Gas Separation Units : ED,**

CHT informed that currently while evaluating annual energy performance of refineries, CHT is excluding petrochemical units from the study for want of energy intensity factors (NRGFs) for petrochemical units. There is a need to develop the NRGFs for petrochemical units as well so that CHT can assess the performance in totality. It is proposed to engage EIL for developing the necessary Energy Factors for Petrochemicals & Gas Separation units on cost (Man-hours) reimbursement basis as was done earlier w.r.t. energy factors for refinery units

Governing Council accorded approval for engaging EIL for developing the necessary Energy Factors for Petrochemicals & Gas Separation units on cost (Man-hours) reimbursement basis as was done earlier w.r.t. energy factors for refinery units. GAIL and IOCL to facilitate the exercise for evaluation of energy performance of Petrochemicals and Gas Separation units.

**5.10.2 Joint Energy Audits (JEA) : ED,** CHT informed that CHT has been regularly undertaking energy performance audits at PSU Refineries to identify gaps for improvements through Joint Energy Audits. JEA is carried out through teams constituted by CHT with experts from the industry. The JEA provides for lateral



exchange of rich operational experience gained over the years at different refineries. The entire activity is centrally co-ordinated by CHT. Two rounds of JEA has been conducted so far, the first one in 1991-92 and second during 2002-03. The audits have led to substantial improvement in the energy performance of the refineries. JEA-2011, third in the series, is currently underway and is scheduled to be completed by Dec, 2011. Director (R), MRPL and ED (R&D), HPCL shared their experience on the immense utility and benefits of such JEAs.

**Chairman desired that the consolidated recommendations be brought out at the earliest for taking action on improvements by the refineries.**

**6.0 New Proposals (Agenda Item No. 3.0)**

**6.1 Institution of Performance Awards for Refineries and R&D (Agenda Item No. 3.1)**

6.1.1 ED, CHT informed that as suggested during the valedictory session of the 16<sup>th</sup> RTM, it is proposed to institute 3 awards, viz., a) Performance Awards for the Best Refinery b) Best indigenously developed technology/process and c) Lowest carbon footprint refinery. He clarified that these will be in addition to the Jawaharlal Nehru Centenary Awards currently being given to the best performing refineries is the area of Energy. ED, CHT remarked that the Award for the best refinery may be based on the Solomon's Benchmarking results. Chairman opined that CHT should take up institution of awards for Best indigenously developed technology/process and Lowest carbon footprint refinery. With regard to the constitution of a Committee to formulate the methodology and evaluation criteria for the awards, Chairman advised CHT to take up the matter with JS (R), MOP&NG.

**Governing Council accorded approval to CHT for institution of awards for Best indigenously developed technology/process and Lowest carbon footprint refinery.**



**6.2 Celebration of 25<sup>th</sup> Anniversary of Centre for High Technology (Agenda Item No. 3.2)**

6.2.1 ED, CHT informed that CHT will be completing 25 years of dedicated service on 27th May, 2012. In order to commemorate this important milestone, it is proposed to organise various programmes under the aegis of Ministry of Petroleum & Natural Gas, Government of India during the period May, 2012 to May 2013. The programmes may include Commemorative Lectures, Felicitating Scientists/Refinery Technologists for their extraordinary contributions, introduction of CHT Chair, organising special Workshops/Seminars, RTM etc. He requested GC to constitute a Committee, under the aegis of MOP&NG to finalise the various programmes/events.

Governing Council accorded approval to CHT for organizing various programmes to commemorate the Silver Jubilee of CHT. Advised CHT to finalise the programmes etc. in consultation with JS (R), MOP&NG.

**6.3 Proposal for Organising 17th Refinery Technology Meet (RTM) during 2012 (Agenda Item No. 3.3)**

6.3.1 ED, CHT informed that in commemoration of the 25<sup>th</sup> Anniversary of CHT, it is proposed to organise the 17<sup>th</sup> RTM in association with Hindustan Petroleum Corporation Ltd. during 2012. The venue will be decided after discussions with HPCL. All the oil companies (PSU/JV/Private), foreign technology licensors/service providers, catalyst manufacturers, EIL, IIP, academia and other experts in the field shall also be associated. As advised during the last RTM, Petrochemicals will be included as one of the major focus areas in the 17th RTM. CHT and HPCL, being the principal sponsors, shall bear the expenses towards hosting the event on 50:50 basis with a contribution of ₹ 25.00 lakh each. The balance expenditure for organising the 17th RTM shall be through sponsorship from other oil companies, licensors etc.



Governing Council accorded approval to CHT for organising the 17th RTM in association with Hindustan Petroleum Corporation Ltd. during 2012. CHT and HPCL shall bear the expenses towards hosting the event on 50:50 basis with a contribution of ₹ 25.00 lakh each.

**6.4 Association with UCDAVIS on behalf of industry for Sustainable Transportation Energy Pathways (Agenda Item No. 3.4)**

6.4.1 ED, CHT apprised the GC on the background of the proposal. He informed that in the HCF review meeting taken by JS(R), MOP&NG on 19.04.2011, the issue of membership of International bodies on Hydrogen was discussed and members agreed that CHT on behalf of industry may associate with USDAVIS (University of California).

6.4.2 In the light of above, CHT propose to associate with the NextSTEPS programme of UCDAVIS, California as sponsor on behalf of the oil industry. THE NextSTEPS is four-year (2011-2014) multidisciplinary research consortium. The principal benefits out of this sponsorship are a) Access to groundbreaking, interdisciplinary, independent research on sustainable transportation fuels, vehicles and policies and b) Interaction with sustainable transportation researchers, industry and government decision makers.

6.4.3 The annual membership fee for the above is US \$ 60,000 each year from 2011 to 2014. 39 projects will be offered under this programme. They have a portfolio of 120 projects.

6.4.4 IOCL (R&D), who was a member of the UCDAVIS earlier and other GC members also endorsed the utility of becoming a member.

6.4.5 Chairman remarked that industry should take advantage of the know-how transferred under this programme and translate the same into result-oriented research.



Governing Council accorded approval to CHT for sponsorship of NextSTEPS programme of UCDAVIS on behalf of industry under the Hydrogen Corpus Fund (HCF) and participation in various meetings/proceedings along with industry members.

**6.5 International Exposure of CHT officers for enhancing competency and capability (Agenda Item No. 3.5)**

Governing Council accorded approval to ED, CHT for sending officials under him for overseas official tour for participation in various programmes/conferences/seminars abroad to facilitate enhancing their competency and capability.

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

7.1 ED, CHT apprised the Governing Council on the activities of Scientific Advisory Committee (SAC) on Hydrocarbons of MOP&NG, status of various R&D projects sponsored by CHT/OIDB and Hydrogen projects under the Hydrogen Corpus Fund.

7.2 The status of recently completed strategically important Synthetic Aviation Lubrication Project was explained in detail by IOCL (R&D) representative. ED, EIL apprised the Governing Council on the progress and status of the ongoing Coal to Liquid (CTL) project.

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

8.1 Other activities undertaken by CHT during the year 2010-11 and Apr-Sep 2012 were also presented to the GC. These included Consolidated Oil Industry Observations / Comments on the Draft National Summary Report, March 2010 of MOE&F on Air Quality Monitoring, Emission Inventory and Source Apportionment Study for Indian Cities; Consolidated document on Research & Development for Processes, Products and Technology covering Upstream, Downstream and Natural Gas for the 12th Five Year Plan; Draft Guidelines for Registration of Petroleum derived Spray Oil; Comments for Issuance of Essentiality Certificates for various Refinery and pipeline Projects; Comments on proposal of Essar Oil Limited for fixation of adhoc norms against export of



refinery products of Light Ends and Middle Distillates; Technical comments on viability of expansion of refining capacity from 5 MMTPA to 10 MMTPA of M/s CALS refineries; Activity Committee Meetings; CHT publications; MOP&NG awards; analysis of physical performance data of refineries for QPR meetings at MOP&NG etc.

**9.0 Finance (Agenda Item No. 6.0)**

**9.1 Adoption of Annual Audited Accounts for the financial year 2010 – 11 (Agenda Item No. 6.1)**

Governing Council reviewed and approved the Annual Accounts as placed by CHT for 2010-11 and adopted the following resolution :

“Resolved that the Annual Accounts of Centre for High Technology for the financial year 2010-11 as audited and reported upon by M/s Aggarwal Vinodeta & Co., Chartered Accountants and now placed before the Governing Council are approved”.

**9.2 Revised Budget Estimates for 2011 – 12 and Budget Estimates for 2012 – 13 (Agenda Item No. 6.2)**

Governing Council approved the Revised Budget Estimates (RBE : 2011-12) and Budget Estimates (BE : 2012-13) of Centre for High Technology as tabulated below :

(Figures in ₹ lakh)

2010-11		Particulars	2011-12		2012-13
RBE	Actual		BE	RBE	BE
740.50	804.39	Revenue Expenditure	681.50	795.50	780.50
8.00	5.49	Capital Expenditure	7.00	40.00	16.00
		Projects			
548.35	304.14	(a) R&D Projects *	130.18	535.02	1093.79
300.00	-	(b) Special Studies	200.00	370.00	230.00
<b>1596.85</b>	<b>1114.02</b>	<b>Total</b>	<b>1018.68</b>	<b>1740.52</b>	<b>2120.29</b>

\* Excluding R&D projects under Hydrogen Corpus Fund which is maintained by OIDB



**9.3 Appointment of Auditors to Audit the Accounts of CHT for the year 2011 – 12 (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 as Auditors of CHT for the financial year 2011-12 and passed the following resolution :

**"Resolved that M/s Aggarwal Vineeta & Co , Chartered Accountants, 406-A Indraprastha Tower, 6, Wazirpur Commercial Complex, Delhi be appointed as Auditor to audit the Accounts of Centre for High Technology and Tax Audit for the financial year 2011-12. It is further resolved that the Auditor, viz., M/s Aggarwal Vineeta & Co. be paid an Audit Fee of Rs. 8000/- p.a., and Tax Audit Fee of Rs. 7000/- p.a. and corresponding service tax thereof plus actual incidental expenses towards travel etc."**

**9.4 Opening of Bank Account at Noida (Agenda Item No.6.4)**

ED, CHT informed that currently CHT is operating the bank account at State Bank of Hyderabad, SCOPE Complex, Lodhi Road, New Delhi. With the shifting of CHT office to OADB Bhawan, Noida, this is causing inconvenience for day to day operations particularly with respect to cash transactions. He informed that RGPIT and OISD have their bank accounts in Noida in HDFC and Kotak Mahindra Banks respectively and sought the approval of GC to open a second account with HDFC bank located nearer to CHT office at Noida. Secretary, OADB informed that they are dealing with Govt. owned banks only who may be allowed to have ATM/branches at OADB Bhawan.

**Governing Council accorded approval to CHT for opening a second bank account in Noida located near to CHT office in consultation with OADB.**

**10.0 The meeting concluded with thanks to the Chair.**



**List of Participants of 30<sup>th</sup> Meeting of the Governing Council & AGM (2010-11) of  
Centre for High Technology held on 4<sup>th</sup> November, 2011 in the Office Chamber of  
Secretary, P&NG, Shastri Bhawan, New Delhi**

S.No.	Name, S/Shri	Designation	Organisation
1	G.C. Chaturvedi	Secretary, P&NG	MOP&NG
2	L.N. Gupta	Joint Secretary (R)	MOP&NG
3	Arun Kumar	Secretary, OIDB	MOP&NG
4	V.K. Sethi	Dy. Secretary (Fin)	MOP&NG
5	R.K. Singh	CMD	BPCL
6	S. Venkataraman	Director (BD)	GAIL
7	S. Venkataramana	Director (Ops)	CPCL
8	P.P. Upadhyaya	Director (T)	MRPL
9	G. Sri Ganesh	ED (R&D)	HPCL
10	Ajay Deshpande	ED (T)	EIL
11	Dr B. Basu	ED	IOCL (R&D)
12	P.K. Mandal	DGM	IOCL – RHQ
13	S.R. Medhi	Director (T)	NRL
14	U.C. Agrawal	Scientist-G	IIP
15	B.D. Ghosh	ED	CHT
16	R. Krishnamurthy	Director	CHT
17	O.P. Raghav	Director	CHT
18	C.S.S. Narayana	Addl. Director	CHT
19	V.K. Suri	Joint Director (Fin)	CHT