



उच्च प्रौद्योगिकी केन्द्र

(पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय)

Centre for High Technology

(Ministry of Petroleum & Natural Gas, Govt. of India)

उ.प्रौ.के./जी.सी.-33/807

CHT/GC-33/807

11 दिसम्बर, 2014

11th December 2014

सेवा में/To,

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

प्रिय महोदय,/Dear Sir,

विषय : उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल की 33वीं बैठक का कार्यवृत्त ।
Sub.: Minutes of 33rd Meeting of the Governing Council (GC) of CHT.

दिनांक 26 नवम्बर, 2014 को शास्त्री भवन में पेट्रोलियम और प्राकृतिक गैस मंत्रालय के सभा कक्ष में सचिव, पेट्रोलियम और प्राकृतिक गैस मंत्रालय की अध्यक्षता में सम्पन्न हुई उच्च प्रौद्योगिकी केन्द्र की गवर्निंग काउंसिल की 33वीं बैठक का अनुमोदित कार्यवृत्त आपकी सूचना और आवश्यक कार्रवाई के लिए संलग्न किया जा रहा है ।

Please find enclosed the duly approved Minutes of 33rd Meeting of the Governing Council of CHT held on 26th November 2014 at MoP&NG, Shastri Bhavan, 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

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OIDB Bhawan, Tower "A", 9th Floor, Plot No. 2, Sector-73, Noida - 201307 (U. P.)

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Members of the Governing Council of CHT

1. Shri Saurabh Chandra,
Secretary,
Ministry of Petroleum & Natural Gas,
Shastri Bhavan,
New Delhi - 110 001
2. Shri Rajive Kumar,
Special Secretary,
Ministry of Petroleum & Natural Gas,
Shastri Bhavan,
New Delhi - 110 001
3. Dr S. C. Khuntia,
SS & FA,
Ministry of Petroleum & Natural Gas,
Shastri Bhavan,
New Delhi - 110 001
4. Shri Sandeep Poundrik,
Joint Secretary (Refineries),
Ministry of Petroleum & Natural Gas,
Shastri Bhavan,
New Delhi - 110 001
5. Dr. Neeraj Mittal,
Joint Secretary (Marketing),
Ministry of Petroleum & Natural Gas,
Shastri Bhavan,
New Delhi - 110 001
6. Shri U. P. Singh,
Joint Secretary (E),
Ministry of Petroleum & Natural Gas,
Shastri Bhavan
New Delhi - 110 001
7. Shri P. Kalyansundram,
Joint Secretary (Gen),
Ministry of Petroleum & Natural Gas,
Shastri Bhavan
New Delhi - 110 001
8. Shri Ambrish Kumar,
Sr. Economic Advisor,
Ministry of Petroleum & Natural Gas,
Shastri Bhavan
New Delhi - 110 001
9. Dr. Archana S. Mathur,
Economic Advisor,
Ministry of Petroleum & Natural Gas,
Shastri Bhavan
New Delhi - 110 001

10. Shri L. N. Gupta,
Secretary,
Oil Industry Development Board,
OIDB Bhawan,
Plot No. 2, Sector-73,
NOIDA - 201 301
11. Shri B. Ashok,
Chairman,
Indian Oil Corporation Ltd.,
3079/3, Sadiq Nagar,
J. B. Tito Marg,
New Delhi - 110 049
12. Ms Nishi Vasudeva,
Chairman & Managing Director,
Hindustan Petroleum Corporation Ltd.
Petroleum House,
17, Jamshedji Tata Road,
Mumbai - 400 020
13. Shri S. Varadarajan,
Chairman & Managing Director,
Bharat Petroleum Corporation Ltd.
Bharat Bhawan, 4 & 5 Currimbhoy Road,
P.O. Box No. 688,
Ballard Estate,
Mumbai - 400 038
14. Shri Gautam Roy,
Managing Director,
Chennai Petroleum Corporation Ltd.
536, Anna Salai,
Teynampet,
Chennai - 600 018
15. Shri B. C. Tripathi,
Chairman & Managing Director,
GAIL (India) Limited,
16, Bhikaiji Cama Place,
R.K.Puram,
New Delhi - 110 066
16. Shri A. K. Purwaha,
Chairman & Managing Director,
Engineers India Ltd.
EIL Bhawan, 1, Bhikaiji Cama Place,
New Delhi - 110 066
17. Shri P. Padmanabhan,
Managing Director,
Numaligarh Refinery Limited,
6th Floor, Tolstoy House,
15 - 17, Tolstoy Marg,
New Delhi - 110 001

18. Shri H. Kumar,
Managing Director,
Mangalore Refinery & Petrochemicals Ltd.,
Regd. Office: Kuthethoor,
P.O. Via Katipalla,
Mangalore - 575 030
19. Dr. M. O. Garg,
Director,
Indian Institute of Petroleum,
P.O. Mohkampur,
Dehradun - 248 005
20. Shri Prabh Das,
CEO,
HPCL Mittal Energy Ltd.,
INOX Tower,
Plot No.17, Sector - 16 A,
NOIDA - 201 301
21. Shri B. D. Ghosh,
Executive Director / Member - Secretary, Governing Council,
Centre for High Technology,
9th Floor, Tower-A, OIDB Bhawan,
Plot no. 2, Sector-73,
NOIDA - 201 301

Minutes of the 33rd Meeting of the Governing Council (GC) and AGM (2013-14) of Centre for High Technology (CHT) held on 26th November, 2014 in the Conference Room, MoP&NG, Shastri Bhawan, New Delhi

1.0 Shri Saurabh Chandra, Secretary, P&NG chaired the Meeting. The list of participants is enclosed as **Annexure**.

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 Confirmation of the Minutes of 32nd Meeting of the Governing Council (Agenda Item 1.0)

There being no comments, the Minutes of the 32nd GC Meeting circulated by CHT vide letter no. CHT/GC-32/8436 dated 15th October, 2013 were confirmed and adopted by the Governing Council.

4.0 Review of Action Points of the 32nd Governing Council Meeting (Agenda Item No. 2.0)

The following points emerged out of discussions :

4.1 Integrated Refinery Business Improvement Program (IRBIP) under Phase-II (Agenda Item No. 2.1)

4.1.1 ED, CHT stated that the IRBIP Phase-II, initiated in February 2011 and spanning over 36 months, is currently being executed by CHT through M/s Shell Global Solutions International (Shell GSI) at 3 PSU Refineries viz. BPCL-Mumbai, HPCL-Mumbai and MRPL.

He informed that all the Projects for Implementation (PFIs) identified and approved by BPCL-Mumbai have been completed with a benefit of around 14.7 cents/bbl. Shri B.K. Datta, Director (R), BPCL informed that subsequently additional 5 PFIs have been taken up and are nearing completion.

As regards HPCL-Mumbai, Shri B.K. Namdeo, Director(R), HPCL clarified that implementation of the 3 approved PFIs are Shutdown related and will be completed during the staggered turnarounds scheduled during April, 2015 and April, 2016.

In the case of MRPL, Shri V.G. Joshi, Director (R), MRPL informed that 2 PFIs have been implemented and the balance 7 approved PFIs involve shutdown and procurement of balancing equipment. He clarified that considering around 30 days of downtime requirement for implementation, it has been decided to take up these PFIs during the shutdown planned for catalyst changes in the hydroprocessing units.

Shri Rajive Kumar, Special Secretary, MoP&NG opined that considering the huge gap identified in the Solomon Benchmarking Studies and the possibility of exporting refineries pushing their products in the domestic market, there is an urgent need to explore and implement high impact margin improvement projects by all the PSU refineries within the shortest possible time.

(Action : All PSU Refineries)

- 4.1.2 Shri Alok Chandra, Advisor (Finance), MoP&NG stated that during the last GC Meeting, there was an observation regarding developing expertise by EIL in line with Shell GSI for undertaking similar IRBIP studies on their own or in association/collaboration with leading global players. Shri A.K. Purwaha, C&MD, EIL, informed that EIL had assisted NRL to implement projects identified during the joint CHT-EIL Energy Efficiency Improvement Studies (EEIS) and are capable of undertaking similar projects. Shri Rajive Kumar advised EIL to provide detailed status to the Governing Council on the work they have carried out in this regard and also for undertaking studies on the lines of IRBIP.

(Action : EIL)

4.2 Energy Efficiency Improvement Study of NRL (Agenda Item No. 2.2)

ED, CHT informed that as advised by GC to NRL in its last meeting, NRL has identified the priorities and initiated implementation of various schemes in consultation with EIL. The same are being carried out by EIL under separate contract with NRL. Shri Ajay Deshpande, Director (T), EIL confirmed that the implementation of all identified projects will be completed within 24 months i.e. by October, 2016

(Action : EIL/NRL)

4.3 Institution of Performance Awards for Refineries and R&D (Agenda Item No. 2.3)

ED, CHT informed that in response to CHT's invitation, 23 nominations have been received so far and all of these are from PSU refiners and EIL. The awards were to be decided by a Committee constituted by the Scientific Advisory Committee (SAC). As the tenure of the SAC had expired, further evaluation could not be initiated. He further stated that the SAC has recently been reconstituted by MoP&NG and CHT will be discussing the issue with the Chairman of the reconstituted SAC.

ED, CHT also agreed to invite nominations from IIP.

(Action : CHT)

4.4 Finalisation of Methodology for GHG (CO₂ equivalent) Inventory Performance of Refineries (Agenda Item No. 2.4)

ED, CHT informed that for Greenhouse Gas (GHG) inventory benchmarking of refineries, CHT, in consultation with all the refineries, had finalized the methodology for comparing the performance w.r.t. GHG emissions and decided to use Carbon Weightage Tonnage (CWT) method for evaluation.

Based on the information submitted by the refineries for 2013-14 as per the prescribed format developed by CHT, the relevant data has been reconciled and compiled by CHT for further evaluation. It is proposed to refer the same to a Committee for finalization of the Award/s.

Governing Council approved the proposal of CHT to refer the evaluation of GHG performance to the same Committee that currently evaluates the Energy Performance Awards constituted by MoP&NG.

(Action: CHT)

4.5 Technical Services Agreement (TSA) with world renowned and reputed consultant (Agenda Item No. 2.5)

ED, CHT informed that in the first year of TSA, services for 819 man-hours were utilized by the Affiliates, viz. NRL, EIL, GAIL, BPCL Kochi and HPCL Visakh. Major studies included RBI Study of Process Units at CPCL, Review of IOCL Spec for Mechanical seals and Analysis of Frequent Pump Failures at BPCL-Mumbai. In the second year of TSA, till end of October 2014, 529 man-hours have been utilized and the total estimated man-hours utilization for this year adds up to 1172 man-hours. These include Hydrocarbon Loss Studies at Gujarat and Haldia refineries of IOC, HPCL- Mumbai, BPCL-Mumbai and Analysis of Gaps in Reliability & Availability Practices at MRPL.

Governing Council took note of the above and the need to honour the contractual obligations.

(Action: All participating companies/OIDB)

4.6 Performance Benchmarking of PSU refineries (Agenda Item No. 2.6)

ED, CHT informed that the Governing Council, during the last meeting, had already accorded in-principle approval to CHT for participating in performance benchmarking study of Solomon Associates (SA) every 2 years' cycle and had advised CHT to put up proposal for next cycles, i.e. 2014 and 2016, for financial concurrence/approval.

In accordance with the advice given by GC, offer was sought from M/s Solomon Associates for performance benchmarking of 15 PSU refineries. After negotiation, they agreed to carry out the studies for a fee of US\$ 890,000, including lube refineries, for each cycle at the same rates and terms & conditions as the previous studies, which was finalized in 2010.

The above proposal was put up to the Executive Committee (EC) of CHT in the meeting held on 15th May, 2014. EC had noted that the total cost of US \$ 890,000, including lube refineries and associated seminars and results presentation (amounting to Rs 5.34 crore excluding tax) exceeded the delegated power of the Executive Committee of Rs 5 crore. Considering this, EC approved the part proposal (i.e. comprising only the Basic benchmarking fees excluding seminars & presentations and study of lube refineries) for benchmarking of 15 PSU fuels refineries for the 2014 and 2016 cycles, at a cost of US \$ 735,000 (approx. Rs 4.4 crore) for each cycle and advised that for the entire work package, the proposal it would need to go to the Governing Council for approval. It was also agreed that as was done during earlier study cycles, the refineries and OIDB/CHT will share the cost on 50:50 basis.

Governing Council took note of the above and desired that a proposal to enhance the delegated power of the Executive Committee of CHT may be brought up separately.

(Action : CHT/All refineries/OIDB)

4.7 Organising 18th Refinery Technology Meet (RTM) during 2013-14 (Agenda Item No. 2.7)

ED, CHT informed that 18th Refinery Technology meet (RTM) was successfully organized by CHT in association with Bharat Petroleum Corporation Ltd. (BPCL) from 11th to 13th November, 2013 at Kochi. The theme of the Meet was "Pacesetter Performance for

Improving Margin, Reliability and Efficiency". More than 650 delegates from India and abroad participated in the three day Meet. Chief Executives, Directors and Senior Executives from the oil industry also participated in the Meet. In addition to the Two Plenary Sessions, One Theme Session and One Q&A Session, there were 18 Technical Sessions with 88 oral presentations on the entire spectrum of downstream sector. Additionally, Exhibition stalls and Poster Sessions were organised on all the 3 days of the Meet which covered 96 technical papers. The 18th RTM was a tremendous success and was well received and appreciated by the entire oil industry and other participants.

Governing Council took note of the above.

4.8 Performance Improvement of PSU refineries through Gap Identification, Analysis and Recommendations (Agenda Item No. 2.8)

ED, CHT informed that based on the evaluation results and findings of the Solomon Performance Benchmarking study, the Expert Group (comprising senior executives from IOCL, BPCL, HPCL, CPCL, MRPL, NRL with ED, CHT as Member Secretary) constituted by MoP&NG visited all the refineries for detailed performance review. The Draft Report prepared by the Expert Group includes general recommendations as well as refinery specific observations to improve the performance and forwarded to all refineries.

The salient recommendations / observations are:

- Improving performance measures through identified key performance indicators (KPIs)
- Maintain strong focus on gap closure and continuous improvement, including frequent benchmarking of key refinery performance areas
- Review refinery modernization and expansions to confirm that new process units are well integrated into the refinery
- Evaluate possible actions and investments needed to reduce Raw Material Cost and Increase Product Value through increasing refinery complexity.
- Higher Gross Product Value and GRM may be achieved through higher complexity of Refinery Configuration Factor.
- Best Refinery of the World or Asia Pacific region has very low capacity of hydrocracker (sometimes zero) in the respective Refinery Configuration Factor. Therefore, suggested that Hydrocracker processing Unit option in future for Indian PSU Refinery be reviewed strongly
- Each refinery should focus on ensuring that data collection benchmarking best practices are consistently and effectively applied in their refinery

Governing Council took note of the above and advised all the refineries to ensure highest priority to implement the recommendations in a time bound manner; as per timelines approved by their respective Board.

(Action : All refineries/CHT/Expert Group)

4.9 Manpower requirement of CHT (Agenda Item No. 2.9)

ED, CHT informed that currently CHT is having only 14 Technical Officers against the sanctioned strength of 28 technical officers. In addition to this huge shortage, no

replacements were given for superannuated employees and those who have been repatriated, in some cases.

While IOC has given only one person against pending manpower (of 3 chemical engineers) agreed during the last GC meeting, BPCL, GAIL and EIL are yet to provide the additional manpower besides providing for manpower substitution before withdrawal.

CHT is a specialised agency for assisting the oil industry for overall performance improvement and needs appropriate manpower with considerable degree of expertise. ED, CHT requested for deputation of 2 technical officers from IOCL and one each from BPCL, EIL and GAIL.

Governing Council took note of the manpower shortage of CHT. Chairman advised IOCL, BPCL, EIL and GAIL to provide the committed manpower support to CHT by 31.12.2014.

(Action: IOCL/BPCL/EIL/GAIL)

4.10 Energy Efficiency Improvement Study of HPCL-Visakh Refinery (Agenda Item No. 2.10)

The techno-commercial proposal submitted by CHT for the work to be carried out in association with EIL has since been evaluated at length by HPCL and the final Letter Of Intent (LOI) has been issued by HPCL, Visakh in the last week of September 2014. The detailed work order is likely to be received shortly. Director (R), HPCL confirmed that the same has been already approved.

Governing Council took note of the above.

(Action : HPCL/CHT/EIL)

4.11 Modification of Methodology and Energy factors for Evaluation of Specific Energy Consumption (Agenda Item No. 2.11)

ED, CHT informed that as proposed in the last GC, the CHT methodology has been reviewed and appropriately modified with the assistance and services of M/s Shell GSI available under TSA. The revised methodology was shared with all oil companies in a workshop held at CHT on 12th August 2014. Based on the revised methodology, calculations are being done for the year 2014-15 for familiarization by the refineries and subsequent change over to the modified methodology for refinery performance evaluation of specific energy consumption.

Governing Council took note of the above.

(Action : CHT/All Refineries)

5.0 New Proposals (Agenda Item 3.0)

5.1 Performance Audit of PSU Refineries (Agenda Item 3.1)

ED, CHT informed that as part of the overall performance efficiency improvement of PSU refineries, it was suggested by the Ministry of Petroleum & Natural Gas that CHT should conduct performance audits of all refineries on a rotational schedule. This would be similar to the safety audits conducted by OISD.

This proposal was discussed in the Working Group chaired by Joint Secretary (Refineries), when members agreed with the proposal for CHT to conduct performance audit of refineries once in 2 years, against payment of fees.

In order for the above audits to be effective, CHT will involve both its own officers as well as outside experts to be part of the teams to look into performance of individual refineries and suggest improvements. It is estimated that the total expenditure for one audit would be Rs. 25 lakh to be borne by the refineries.

The above proposal of CHT was deliberated during the GC Meeting. IOCL, HPCL, BPCL, MRPL, CPCL and NRL agreed to this proposal including the fee of Rs 25 lakh per audit per refinery.

Governing Council accorded approval for undertaking Performance Audit of Refineries once in two years at a fee of Rs 25 lakh per audit per refinery and also approved engagement of experts/retired employees to associate in conducting the audit as per existing provisions.

(Action: CHT/All Refineries)

5.2 Supply of Power from the Grid to PSU Refineries (Agenda Item 3.2)

ED, CHT informed that one factor accounting for the lower margins generated by Indian PSU refineries was their use of liquid hydrocarbons for generating captive power. If reliable power supply could be sourced from the grid, this liquid hydrocarbon would form part of the refinery's product slate and add to its margins.

The issue was discussed in the Working Group chaired by Joint Secretary (Refineries) and representatives from NTPC and PTC were invited for their advice. Refineries shared their power requirements with NTPC and a sub-group under the leadership of ED-CHT was formed to take the initiative forward.

Six PSU refineries have been identified where potential for switching partially to grid appears feasible in the short term. The power requirements and sources have been quantified / identified, to enable the MoP&NG and Industry take up with the Ministry of Power for allotment of this power from the unallocated power being generated by NTPC.

Chairman advised that the issue should be taken up on top priority and switching to grid power, wherever potential exist, should be completed within the next 2 years.

(Action: CHT/Refineries Concerned)

5.3 Organization of Refinery Technology Meet (RTM)

ED, CHT informed that the 19th RTM was recently organised by CHT in association with MRPL from 12th to 14th November, 2014 at Chennai. The theme of the Meet was "Emerging Refining and Energy Landscape". Shri Saurabh Chandra, IAS, Secretary, MoP&NG inaugurated the Meet and also gave away the Energy Performance Awards for 2013-14 to the winning refineries.

Around 635 delegates/domain experts from 11 PSU companies and 46 JV/ Private/Foreign companies participated in the 3 day Meet. Leading global companies, viz., Shell, UOP/Honeywell, Chevron, ExxonMobil, Haldor Topsoe, Axens, Solomon, KBR, Linde, Albemarle, BASF made technical presentations and shared their expertise and latest developments. All PSU oil companies, EIL, IIP, HMEL, BORL, RIL, Essar Oil participated in full strength.

A total of 163 technical papers covering entire spectrum of downstream sector were covered under Oral Presentation and Poster Sessions. A dedicated Q&A Session on Refinery Operations was also organised. 12 leading companies had put up Exhibition Stalls.

Like the previous RTMs, the 19th RTM was a tremendous success and was well received and appreciated by the entire oil industry and other participants.

ED, CHT proposed that the next i.e. 20th RTM be organised by CHT in association with IOCL/CPCL, being their turn this time. He further proposed that in line with previous RTMs, CHT and IOCL/CPCL, being the principal sponsors, shall bear the expenses towards hosting the event on 50:50 basis with same contribution of Rs. 25.00 lakh each. The balance expenditure for organising the 20th RTM shall be through sponsorship from other oil companies, refineries, licensors, etc.

Shri B. Ashok, Chairman, IOCL confirmed that IOCL will co-host the 20th RTM along with CHT.

Governing Council approved organisation of the 20th RTM by CHT in association with IOCL.

Action: CHT/IOCL

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

6.1 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.

6.2 ED, CHT informed that SAC in its 73rd held on 7th October 2013 and its 74th meeting held on 25th June, 2014 approved the following 7 project proposals for funding with CHT/OIDB share amounting to Rs 2911.25 lakh :

- "Experimental and Simulation Studies on Coke Mitigation in Petroleum Refinery Systems" of BITS-Pilani, Goa Campus, Goa
- "Development of process know-how for indigenous production of Biphenyl for thermic fluid and other application" of BPCL-R&D
- "Synthetic Aviation Lubricants – Phase II Involving Ground & In-flight Tests with Indigenously Developed SAL on TV2 Aero Engine by Indian Air Force at 3BRD, Chandigarh" of IICT, Hyderabad
- "Parametric Study and Technology Development for Desalter Design" of EIL-R&D and BPCL-R&D
- "Hydroprocessing of Residues" of IIP, Dehradun/ IOCL/ HPCL/ BPCL/ EIL
- "Development of Improved 3-phase reactor configuration for Hydroprocessing applications" of BPCL-R&D and EIL-R&D
- "Study to Examine the Possibility of Production of Naphthenic Base Oil and Paraffin Wax from Waxy Distillate Streams" of CSIR-IIP and IOC-Digboi

Governing Council approved all the above proposals recommended by SAC with a total funding of Rs 2911.25 lakh by CHT/OIDB.

Action: CHT/OIDB

7.0 FINANCE (AGENDA ITEM NO. 6.0)

7.1 ADOPTION OF THE ANNUAL AUDITED ACCOUNTS FOR THE FINANCIAL YEAR 2012-13 (AGENDA ITEM 6.1)

Governing Council reviewed and approved the Annual Accounts as placed by CHT for the financial year 2013-14 and adopted the following resolution:

"Resolved that the Annual Accounts of the Centre for High Technology for the Financial year 2013-14 as audited and reported upon by M/s. Y. K. Gupta & Co. Chartered Accountants, and now placed before the Governing Council are approved".

7.2 Revised Budget Estimates for 2014-15 & Budget Estimates for 2015-16 (Agenda Item 6.2)

ED, CHT presented the following Revised Budget Estimate (RBE) for 2014-15 and Budget Estimate (BE) for 2015-16 in respect of Revenue Expenditure, Capital Expenditure and R&D Projects for consideration of the Governing Council:

(Figs in Rs Lakh)

RBE 2013- 14	Actual 2013- 14	Particulars	BE 2014- 15	RBE 2014- 15	BE 2015- 16
965.00	804.66	Revenue Expenditure	965.00	930.00	925.00
12.00	0.57	Capital Expenditure	12.00	5.00	5.00
		PROJECTS			
668.00	227.63	(a) R&D Projects*	335.00	1015.00	1822.00
575.00	211.39	(b) Special Studies	250.00	275.00	350.00
2220.00	1244.25	Total	1562.00	2225.00	3102.00

* Excluding R&D projects under Hydrogen Corpus Fund which is maintained by OI DB

Chairman advised ED, CHT to get the above concurred by Special Secretary & Financial Advisor, MoP&NG, subject to which the Budget stands approved.

(Action : CHT)

7.3 Appointment of Auditors to Audit the Accounts of CHT for the Year 2014-15

Governing Council approved the proposal to appoint M/s Y.K. Gupta & Co., Chartered Accountants, 206, Hans Bhawan, 1, Bahadur Shah Zafar Marg, New Delhi -110002 as Auditors of CHT for the Financial Year 2014-15 and passed the following resolution :

"Resolved that M/s Y.K. Gupta & Co., Chartered Accountants, 206, Hans Bhawan, 1, Bahadur Shah Zafar Marg, New Delhi – 110002 be appointed as Auditor to audit the Accounts of Centre for High Technology and Tax Audit, proprietary audit for the financial

year 2014-15. It is further resolved that the Auditor viz., M/s Y.K. Gupta & Co. be paid an Audit Fee of Rs 40,000/- p.a., including Tax Audit Fee and proprietary Audit and corresponding service tax thereof plus actual incidental expenses towards travel etc.”.

(Action : CHT)

8.0 Any other points with the permission of Chair

8.1 Enhancement of delegated powers of the Executive Committee (EC) of CHT

ED, CHT, informed the Governing Council that the extant delegated power of Executive Committee of CHT, headed by Joint Secretary (Refineries), MoP&NG for approving development expenditure involved in technology acquisition, project studies, laboratory/pilot plant commercial investigations, field programmes, etc. as approved the Governing Council in its 23rd meeting on 20-08-2004 is Rs. 5 crore. Considering that this limit was assigned more than a decade back, it was proposed to increase the delegated power of Executive Committee of CHT to Rs 15.0 crore.

Governing Council considered the above and approved the proposal of increasing the delegated power of Executive Committee of CHT to Rs 15.0 crore.

(Action : CHT)

9.0 The meeting concluded with thanks to the Chair.

Annexure

List of Participants of 33rd Meeting of the Governing Council (GC) and AGM (2013-14) of Centre for High Technology (CHT) held on 26th November, 2014 in the Conference Room, MoP&NG, Shastri Bhawan, New Delhi

S.NO.	NAME, S/SHRI	DESIGNATION	ORGANISATION
1	SAURABH CHANDRA	SECRETARY, P&NG	MOP&NG
2	RAJIVE KUMAR	SPECIAL SECRETARY	MOP&NG
3	DR S.C. KHUNTIA	SS & FA	MOP&NG
4	SANDEEP POUNDRIK	JOINT SECRETARY (R)	MOP&NG
5	ALOK CHANDRA	ADVISOR (FINANCE)	MOP&NG
6	B. ASHOK	CHAIRMAN	IOCL
7	A.K. PURWAHA	C&MD	EIL
8	B.K. DATTA	DIRECTOR (R)	BPCL
9	B.K. NAMDEO	DIRECTOR (R)	HPCL
10	GAUTAM ROY	MD	CPCL
11	VIJAY G. JOSHI	DIRECTOR (R)	MRPL
12	R.K. KASHYAP	ED	GAIL
13	N. BORTHAKUR	DGM	NRL
14	DR. S.M. NANOTI	CHIEF SCIENTIST	CSIR-IIP
15	B.D. GHOSH	ED	CHT
16	AJAY N. DESHPANDE	DIRECTOR (T)	EIL
17	B.P. DAS	ED (R&D)	IOCL
18	S.K. GHOSH	ED (OPS)	IOCL
19	R. SRIKANTHAN	DGM	CPCL
20	R. KRISHNAMURTHY	DIRECTOR	CHT
21	RAJAN KAPOOR	DIRECTOR	CHT
22	A.S. PATHAK	DIRECTOR	CHT
23	S. HALDER	ADDL. DIRECTOR	CHT
24	V.K. SURI	JOINT DIRECTOR (FIN)	CHT
25	R.K. BALI	ADVISOR (HR)	CHT