



BUILD DAM FOR FREEDOM & POWER



Council of Power Utilities
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International Conference & Exhibition *Water India-V* ***“Sustainable water development for freedom & Power”***

On 3-4 November, 2008, at Hotel Hyatt Regency, New Delhi (India)

In commemoration of 80th Anniversary of International Commission On Large Dams

Summary Record And Conclusions

A Two day International conference *Water India-V - “Sustainable water development for freedom & Power”* was organized by Council of Power Utilities (CPU) & KW Conferences in association with NTPC, NHPC Ltd, NJPC, The Dams Society and The Hydro Power Association on **3-4 November 2008** at New Delhi, India. NTPC Ltd., National Hydro Power Corporation Ltd Crompton Greaves Limited & Indian Energy Exchange Ltd. were the sponsors of the conference.

The Conference was Inaugurated by **Hon’ble, Minister for Irrigation Er. Ponnala Lakshmaiah Garu of A.P & The Function was Presided over by Shri A.K.Razdan, Secretary (Power), & Shri C.V.J.Varma, President CPU** welcomed the Chief Guest and the participants. Shri H.L Bajaj, Member ATE & Shri A.K.Bajaj, Chairman, Central Water Commission addressed the participants, Whereas Shri C.V.J.Varma, Secretary General, CPU and Hon. President ICOLD proposed Vote of Thanks.

The session chairpersons for Seven Technical Sessions were **Smt. Leslie Eden, Former President, National Hydro Power Association USA - Water Resources Development Including Small Dams, Shri C.R. Prasad, CMD, Everest Power Pvt. Ltd. - Hydro Power Potential Development & Opportunities including Small Hydro, Shri H.K. Sharma, CMD, Satluj Jal Vidyut Nigam Limited - Accelerated completion of water resources development projects & Operation & Maintenance of Hydropower plants, Shri Reji Kumar, Head Energy & Utilities Communication Sector, IBM - Evacuation of Hydro Power –IT Solutions in Water management & Transmission & Distribution Systems, Shri Sultan Alam, Consultant, Hydropower France - Flood Control, Irrigation, Spillway & Sediment Management, Shir V.B. Patel, Former Chairman CWC - Small & Large Dams, RCC, CFRD, Rock-Fill Dams, River Control During Construction, Inter- state water resources development schemes & Shri H.R. Sharma, Chief Technical Principal, HTCPIIL - HRD, Environment, Social aspects.**

In the Conference Session wise Keynote Speakers and paper presenters are given below :

Shri S.K Garg, CMD, NHPC Ltd., “*Hydro Power Development in India*”, Smt. Alison Bartle, Director Aqua Media, “*Hydro Power Development in Asia*” Smt. Leslie Eden, Former President, National Hydro Power Association USA, “*Achieving Beneficial Water and Hydropower Goals through Partnerships*”, Shri Raja Parthasarathy, Managing Director, IDFC Private Equity, “*Potential role of private sector in Water management in India*”, Shri F. Lempérière , Chairman, Hydrocoop, “*Worldwide potential of tidal plants and Offshore Energy Storage : Some Examples in India*”, Shri A. Palmieri, Lead Dam Specialist at World bank, “*The Financing of Water Infrastructure- A Review of Case studies*”

Shri C.R. Prasad, CMD, Everest Power Pvt. Ltd., “*Opportunities in India Power Sector & Role of Private Participation*”, Shri V.K.Gupta, GM, NTPC Ltd., “*Hydro Power Development & Opportunities*”, Shri Alberto M. Scuero, Dir. Tech. , CARPI TECH S.A, “*CARPI’s contribution to water resources development*”,

Shri H.K. Sharma, CMD, Satluj Jal Vidyut Nigam Limited, “*Accelerated completion of water resources development projects -Suggestions & solutions to avoid delays*”, S.K.Shukla, Director

(Tech) Tehri Hydro Development Corporation, “Management of rehabilitation aspects and monitoring” , Shri Lars-Erik Kampe, V.G. Power AB, Sweden, “Uprating / Upgrading of Standsforsen U3 r an additional 50 Years of Operation” Shri Arun Kumar, Head Alternate Hydro Energy Centre, IIT Roorkee, “Sustainable Water Resources Development”, Shri V.K. Pande, Sr.Tech.Adviser, Voith Siemens Hydro Pvt. Ltd, –“Renovation & Uprating of Hydro Plant- Role of CFD”, Shri Chandan Chowdhury, CEO, IFS- ERP for Hydro Sector,

Shri Reji Kumar, Head Energy & Utilities Communication Sector, IBM, “*IT solutions in Water management*”, **Shri Rajesh Mediratta**, Vice President (BD) IEX, “*Trading of Energy*” **Shri Ganesh Kashyap**, Director, Global Development Center, “*AMR for Water meters and associated advantages*”, **M.E.Omran**¹¹University of Kurdistan, Sanandaj / Mahab Ghodss Consulting Engineering Co Tehran, Iran & Z.Tokmechi University of Kurdistan, Sanandaj, Iran – “*Parametric Studies On The Structural Safety of Kahir Hard-Fill Dam in Iran*”.

Shri Sultan Alam, Consultant, Hydropower, “*Spillways & Sediment Management*” **Shri Gopalakrishnan**, Secretary General, ICID, “*Water for Food Security*”, **Shri Shailesh J.Desai**, Director (Canals) & **Shri Musket B.Joshi**, GM, Sardar Sarovar Narmada Nigam Ltd., “*Narmada - Water Plays Its Role- Capturing Initial Trends from Gujarat*”, **M.E.Omran**, Department of Civil Engineering, University of Kurdistan / Mahab Ghodss, Consulting Engineers, Tehran, Iran- “*Experience gained during design and construction of the Jahgin RCC dam in Iran*”

Shri V.B. Patel, Former Chairman CWC, “Accelerated completion of Hydro Projects –Role of Roller Compacted Concrete Technology”, **Shri F. Lemperiere**, Chairman, Hydrocoop “Collapsible gates and labyrinth weirs *for new or existing Dams*”, **Shri Minghui Feng**, IWHR, China on behalf of Shri Jinsheng Jia Former Vice President, ICOLD, “*Wenchuan earthquake and dam safety*”, **Shri D.G. Kadhade**, Chief Adviser, Jayparkash Associates Ltd., “*Experiences of Tunneling for Hydro Projects*”, **Shri T. Ramamurthy**, Former Professor, IIT Delhi, “*Rock Mass parameters for design of Hydraulic Structure*”, **Vivek P. Kapadia**, Superintending Engineer, Sardar Sarovar Narmada Nigam Limited- “*Canal Based Small Hydropower: A Means of Combating Unviability of Serving Far Command Areas of Irrigation Project*”

Shri H R Sharma, Chief Technical Principal, HTCPIIL, “*Environment & Social Aspects*”, **Shri P.Mulvihill**, Chairman, ICOLD Committee on Public Awareness & Education, Pioneer Generation Ltd. New Zealand, “*Public Awareness for Water & Hydropower Development*” & **Smt Usha Bhatt**, CE& **Shri Shahid Ali Khan**, Sr Manager NHPC Ltd, “*NHPC Affords for Environmental Up gradations*” , **Anil Kumar**, Department of Environmental Biotechnology, Institute of Genomics and Integrative Biology ,DU “*Biotechnological interventions for sustainable management of wastewaters*”

In the Conference there were 35 presentations, there were about 175 participants including about 30 international participants from various national & international organizations. such as The World Bank ,ICID, ICOLD, V.G. Power AB, Sweden ,CWC, BHEL, NHPC, NTPC, Power Finance Corporation, Satluj Jal Vidyut Nigam Limited, National Hydro Power Association USA, , Alternate Hydro Energy Centre, IIT Roorkee, *CAPRI TECH S.A, Corso San Gottardo 86, CH 6830 CHIASSO, Switzerland-*, Voith Siemens Hydro Pvt. Ltd, Asian Institute of Technology, *HYDROCOOP, France*, Malana Power Company Ltd, IDFC Private Equity, Tehri Hydro Development Corporation, IFS, IBM, Sardar Sarovar Narmada Nigam Ltd., a number of Power utilities, Developers & project authorities.

We express our gratitude to Hon’ble, Minister for Irrigation Er. Ponnala Lakshmaiah Garu of A.P for inaugurating the conference, Shri A.K.Razdan, Secretary (Power) for presiding over the Inaugural function & Shri H.L.Bajaj, Member ATE & **Shri A.K.Bjaj**, Chairman, Central Water Commission addressed the participants. The Session Chairpersons, Keynote speakers & paper presenters for their valuable contribution. We also acknowledge with thanks the support of M/s NTPC Ltd., National Hydro Power Corporation Ltd Crompton Greaves Limited & Indian Energy Exchange Ltd. for sponsoring the conference , M/s Carpi, Om Metals, for their participation as Exhibitors and Media partners and press .