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Summary Record

A Two day International conference Thermal Power-3 “**Present & Future Technologies-Prospects & strategies for Sustainable Development**” was organized by Council of Power Utilities (CPU), Association of Energy Industries & India Core on 19<sup>th</sup> & 20<sup>th</sup> Feb., 2009 at India Habitat Centre Lodhi Road, New Delhi, India. M/S Microtex Batteries Ltd. were the Platinum sponsors And IFS were sponsors of the conference.

The Conference was Inaugurated by **Shri A.K.Razdan, former Secretary (Power)** by lighting of lamp. On this occasion **Prestigious Publication of Council of Power Utilities** titled “Profile of Power Utilities and Non utilities in India 2009” was also released. The Function was Presided over by **Shri H.L.Bajaj, Member ATE**. At the out set **Shri C.V.J.Varma, President CPU** welcomed the Chief Guest, other dignitaries and the participants. **Shri H.L Bajaj, Member ATE**, delivered the Presidential address. **Shri A.B.L.Srivastava, Director, Finance, NHPC: delivered his keynote on “ERP implementation to manage growth and productivity of power sector”** **Shri C.V.J.Varma, President, CPU** and Hon. President ICOLD proposed Vote of Thanks.

The session chairpersons for Seven Technical Sessions were **Sh. P.S.Bhami, Former CMD, NTPC., Sh. Sudhir Kumar Calla, CMD, RRVUNL-Rajasthan, Sh.V.N.Choudhary, G.M., Badarpur, NTPC Ltd., Sh.P.M. Bhardwaj, Director (Production) ILK, Sh.Pankaj Bharti AGM, CENPEEP NTPC Ltd, Sh. Vimal Kumar, Scientist G& Head Fly Ash Unit M.O.Sc.& Technology and Sh.. Sunil Verma, Member (E&C), Central Electricity Authority,**

Opening the Session- I on **Electric Power Scenario** **Sh. P.S.Bhami, Former CMD NTPC** And President India Energy Forum, emphasized the **Need of reducing the dependence on the import & adopting Advanced technologies for Conventional & other form of renewable Energy for the country's Energy Security.** **Sh. S. Padmanaban, Director, South Asia Regional Initiative for Energy (SARI/E) &**

Senior Energy Advisor, USAID- spoke on the **“Thermal Efficiency Improvement Activities in the Indian State Electricity Boards coal fired plants under the Asia Pacific Partnership program implemented by USAID/ USDoE ”**. **Sh.Chandan Chowdhury**, Chief Executive Officer, IFS Solutions India Pvt. Ltd.- narrated the advantages of **“ Role of IT for automation & Performance”**. **Sh.T K Basu, Vice President-** Technical, Microtex Batteries Ltd. the Platinum Sponsor - delivering the talk on **Battery Types For Utilities** based on the paper by Mr. Weiland Rusch, Chief of Technology Microtex, The session concluded after interaction

**Opening the Session -2, The Thermal Power generation,** **Sh. Sudhir Kumar Calla**, CMD, RRVUNL-Rajasthan, delivered his talk **“Managing growth at Raja Vidhyut Utpadan Nigam Limited through improvement in the management of thermal projects-some experiences”**. **Sh.Anil Kumar**, AGM BHEL, Representing **Shri G.S.Bindra GM (in-charge), PEM Power Sector** - spoke on the **Ultra Supercritical Power Plants**. **ShriA.K. Sinha**, AGM represented **Shri N.K.Bansal, GM , TS-BHEL** - spoke on sharing of **Experience sharing on Spring loaded Turbo Generator foundation of Large rating of Thermal Units**. **Sh. Sanjay Gambhir**, Head- Plant Design & Piping, Doosan Babcock Engineering & Services, spoke on **‘EPC of Thermal Power Projects- A Concept of Virtual Design’** The session concluded after interaction

**Opening the Session- 3 Fuels for thermal power, Nuclear Power & IGCC for more efficient thermal generation,** **Sh. V.N.Choudhary**, GM, BTPP, NTPC spoke on **Coal for Power generation in India-Strategic Issues & challenges**. **Sh.Ira Jaroslav**, Director- Business Development, SKODA Power,- delivered his talk on **Global Renaissance of Nuclear Power - position of SKODA turbine technology’**. **Sh.Y.P. Abbi**, Senior Fellow, Energy & Environment Technologies Division, TERI spoke on **Clean coal technology for green power**. **Sh.John O Thames**, Engineering Director, Fluor Daniel, UK, - **‘A Fast Track Method of Supplying Today’s Energy Needs Utilizing a Mixture of Existing Equipment and New Technologies**. The session concluded after interaction

**Opening the Session-4 Role of IT for Automation, Operation and Maintenance of Thermal Power Plants** **Sh. P. M. Bhardwaj**, Director (Production), Instrumentation Limited Kota, enlightened the audience on **“Role of Control & Instrumentation & Information Technology in Thermal Power Generation ”**. **Sh. Chander Kant Sentiya**, EE representing **D.N. Prasad CMD, MP Power Generating Company Limited**, to present his keynote on **Usage of IT in Operation and Maintenance of Coal-fired Power Plant**. **Sh.R.P.Tripathi**, DGM, Mtc, BTPS along with co-authors **Neelam Dhir**, Manager IT& **Monica Sagar Dy.Supdt-** presented their paper **“Maintenance Management- Potential of IT to address Functional Strategic Issues”**. The session concluded after interaction

**Session-5 Operation and Maintenance of Thermal Plants** -was chaired by Sh. **Pankaj Bhartiya**, AGM represented **Sh.D.K.Agrawal** , GM , CENPEEP-NTPC Ltd., **Sh.M.K.S Kutty** DGM, presented his keynote on ‘**Sustainable Performance Improvement in Thermal Power Plants**’. **Sh M. Batrani**, Manager (STE) coauthor with **Amitabh Srivastava** (AGM-STE), **J. Ghosh**(AGM-MRL) BHEL Haridawar presented their keynotes on “**Residual Life Assessment in Steam Turbines. Sh Lakshmi Narain**, AGM (CEETEM), NTPC Limited, presenting his paper- **Aux Power Consumption Reduction opportunities in Thermal Power Stations**’, stressed on saving on Aux. consumption, which can easily give benefit equivalent to new capacity addition in a short span of time. **Sh N.K. Srivastava** AGM (R&M-Engg), NTPC Limited- delivered his talk on “**ENERGY EFFICIENT TECHNOLOGIES**” for Renovation of Power plants -User's Perspective. **Sh Ashwani Sachar, General Manager-Sales, Power Plants, Wartsila India Limited**, spoke on Topic- ‘**Distributed Generation and 24/7 Power Reliability**’. The session concluded after interaction

**Opening the Session-6 -Environment Management & Thermal Power Generation- Sh Vimal Kumar**, Scientist 'G' & Head, Fly Ash Unit , Govt. of India , Ministry of Science & Technology **allowed Sh Kalyan Roychowdhury**, Manager - Composite Buisness, Henkel Adhesives Technologies, to present his '**Experience Sharing on how Polymer Composite Technology is being used to protect and extend the service life of a wide range of Equipment at different Power Plants in India**'. **Sh S.K.Dube**, Dy.General Manager(AUD)/ CENPEEP, Ash Utilization Division- **Exploration for Adoption of New Technologies for Increased Fly Ash Utilization. Sh A.K. Mathur**, AGM (Ash Utilisation)- ‘**Ash Management and Emission Control**’. **Sh Avinash Chandra**, Centre for Energy Studies, Indian Institute Of Technology, Delhi -**Enhancement of Collection Efficiencies of Electrostatic Precipitators in Coal based Indian Thermal power plants. Sh Vimal Kumar**, concluded the session with his views on - **Disposal of Ash and Emission Control by using coal with not more than 34% ash**’ The session concluded after interaction

Opening the Session-7 -Economics and Finances **Sh Sunil Verma**, Member (E&C), Central Electricity Authority shared his views on -‘**Power Project Financing /Proper Techno-Economic Appraisal**’. **Sh Vishesh Nargotra, Principal Consultant, Avenir -Exploring Synergies between Critical Chain Project Management and setting power projects in cash crunch situation. Sh Rajesh K. Mediratta**, Vice President, Indian Energy Exchange Limited ‘**IEX: opportunity for trading electricity**’. **Sh K.A Sivaram, Advocate**, Chitale & Chitale Law firm, ‘**Power Purchase Agreements in Power Projects**’. **Sh R.L. BHATIA, Practicing Advocate**, Supreme Court of India “**Challenging Of Arbitration Award Under The Arbitration And Conciliation Act, 1996**”

In the Conference 35 presentations were made and there were about 175 participants including about 5 international participants from various national & international organizations. such as Ministry of Science & Technology Department of Science & Technology, CEA, Appellate Tribunal for Electricity, BHEL, NHPC, NTPC, Indian Institute of Technology Delhi, MP Power Generating Company Limited, Tehri Hydro Development Corporation, Haryana Power Generation Corporation Limited, Tamil Nadu Electricity Board, PSEB, GHTP ,South Asia Regional Initiative for Energy (SARI/E) & Senior Energy Advisor, USDI/India , India Energy Forum, Indraprastha Power Generation Co. Ltd. & Pragati Power Corporation Ltd, Instrumentation Limited, Rajasthan Rajya Vidyut Utpadan Nigam Ltd., IFS Solutions India Pvt. Ltd., Development Consultants Pvt. Ltd., Doosan Babcock Engineering & Services, Avenir, Fluor Daniel India Private Limited, TERI, Integro Engineers Pvt. Ltd., Abhishek Industries Limited (Trident Group), Ace Instruments Delhi, Airox Nigen, Apex Tubes Pvt. Ltd., Baldor Electric India Private Limited, Chadha Power, Chettinad Power Corporation Pvt. Ltd. ,Evonik Energy Services (India) Pvt. Ltd., Facor Power Limited, Flakt India limited, Flender Limited, Fluidyn Software & Consultancy (P) Ltd., Fox Mandal & Company, GEA IHE Systems India, Germany Trade and Invest Gmbh, Hayward Tyler India Pvt. Ltd., Henkel Adhesives Technologies Ltd. Etc

We express our gratitude to Shri A.K.Razdan, Former Secretary (Power) for inaugurating the conference, Shri H.L.Bajaj, Member ATE & for presiding over the Inaugural function & Shri A.B.L.Srivastava, Director, Finance, NHPC delivered his keynote The Session Chairpersons, Keynote speakers & paper presenters for their valuable contribution. We also acknowledge with thanks the support of M/s Microtex Batteries Ltd the Platinum Sponsor, IFS Ltd. for sponsoring the conference, M/s Doosan Babcock Engineering & Services, Evonik Energy Services (India) Pvt. Ltd , Airox Nigen , Henkel Adhesives Technologies Ltd PPI, Vaas for their participation as Exhibitors.