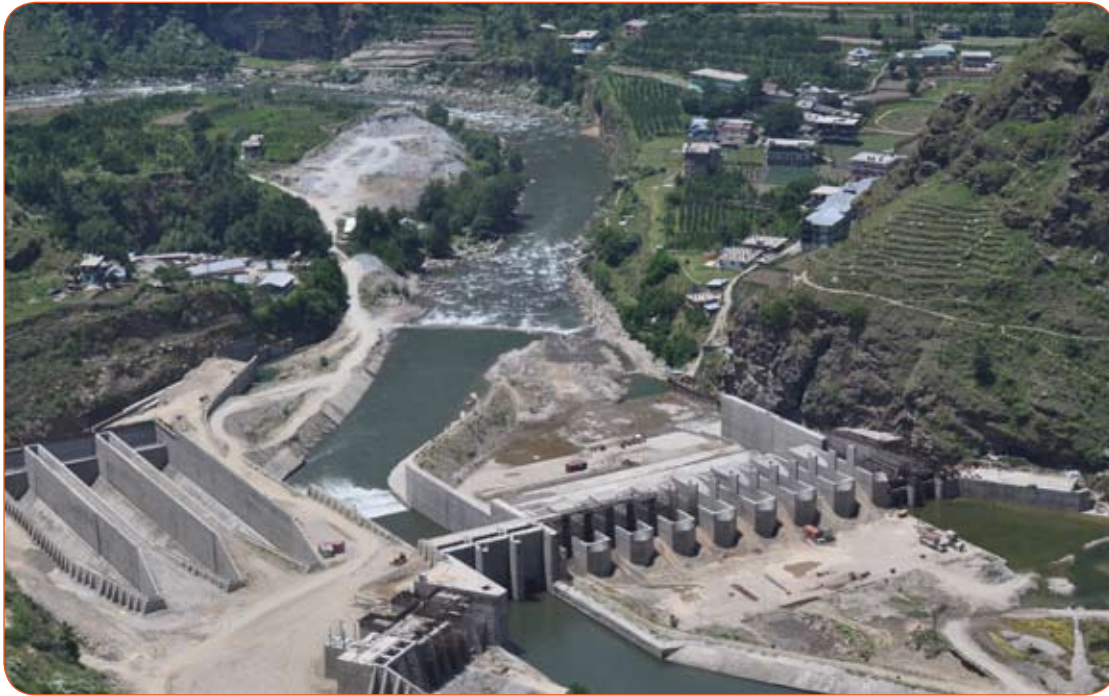


Conference on Challenges and Barriers in Hydropower Development

18-19 September 2014
at Hotel Peterhof, Shimla (H.P.)



Sawra Kuddu Barrage

Organised by



Central Board of Irrigation & Power



Himachal Pradesh Power Corpn Ltd.



Forum of the Hydro Power Producers
(In Satluj, Beas, Chenab, Ravi and Yamuna Basins)

Sponsored by



Co-sponsored by



Indian Committee on Large Dams



Indian National Hydropower Association



Tunnelling Association of India

INTRODUCTION

The share of hydro power in the energy sector has declined from about 45% in 1970 to about 18%. Hydro power generation in the country stands at 39788.40 MW against estimated hydroelectric potential of 148701 MW. Even after 66 years of independence we have developed about 27% of available hydroelectric potential. Each five year plan has a target but achievements show dismal picture. Against a target of 14393 MW in 10th plan only 7886 MW could be achieved. 11th plan was no different. Only 5544 MW against target of 15627 MW could be achieved. Big targets have been put for 12th plan as well.

Various reasons could be attributed to slow pace of development of hydro capacity potential such as difficult/inaccessible potential sites and lack of infrastructural facilities like road and communication, land acquisition problems, environment and forest issues, resettlement and rehabilitation problems, law and order problem, paucity of funds, longer gestation period, geological surprises, inter-state aspects, non availability of hydrological data, security restrictions in border areas, lack of adequate skilled manpower and contractual problems. Even ongoing projects are getting delayed for some of the aforesaid reasons. The delay could be about 4 to 5 years or may be more. The delay is eventually leading to cost overruns. A task force on hydro power development headed by the Hon'ble Minister of Power has been set up. Steps are also being taken for expediting project construction as well as for obtaining necessary statutory clearances from various Central Ministries or States for increasing the production of hydropower electricity. Everybody is concerned but outcome is not on expected lines.

Development of hydroelectric potential besides immensely contributing in infrastructure development of the country is a good source of revenue to the states of Himalayan region. It is time that concerted efforts are made to find a way out to deal effectively with the common problems being faced to develop hydropower in the country.

To focus on various issues on the subject, Central Board of Irrigation and Power and Himachal Pradesh Power Corporation Limited, Govt. of Himachal Pradesh proposed to organize a two day conference on the topic "Challenges and Barriers in Hydropower Development" on 18-19 September 2014 at Shimla, Himachal Pradesh

TOPICS

The following topics will be discussed during the proposed conference:

1. **Potential and Development Opportunities**
2. **Guidelines for Formulation and Processing of DPRs for Obtaining TEC/TEA**
 - Delays in availability of hydrological data available with CWC and other Govt. agencies resulting in delay in preparation of DPRs to Private developers.
 - Development of transmission system matching with commissioning of hydro projects located in remote areas.
 - Delay in Environmental & Forest Clearance and frequent change in the regulations.

3. Survey and Investigations of Hydropower Projects – Issues and Challenges

- Identification of challenges of investigations of hydroelectric projects
- Application of techniques and methods of investigations of hydropower projects
- Adoption of suitable means during planning, investigations and construction stages to minimize geological surprises.
- Lack of infrastructure facilities like roads, construction power, reliable telecommunication system.
- Risk analysis and insurance

4. Innovation and Construction Experiences

5. Environmental and Social Issues

- Impact assessment and mitigation
- Residual and cumulative impacts
- Carbon emissions: research update
- Stakeholders consultations
- Resolution of issues relating to land acquisition and R&R.
- Building ups of skilled manpower around project area.
- Apportionment of catchment area treatment among various beneficiaries.
- Recent norms of net present value and its upfront payment for assessing the cost of forest diversion leading to huge financial burden on the storage projects.
- Conversion of storage schemes to ROR schemes on the insistence of State Govt.
- Disaster Management

6. Contract Management

- Contract Management Administration and Associated Areas
- Deficiencies in Existing Contract Management Systems/Practices
- Risk Management, Dispute Resolution and Case Studies

7. Project Financing

- New approaches and experience
- Public Private Partnership
- Risk Allocation and Management
- Legal and institutional aspects

8. Research & Developments

WHO SHOULD ATTEND?

The Conference is of interest to Planners, Designers, Scientists, Researchers, Engineers, Geologists, Regulatory Bodies, Government Department, Developers Contractors, Consultants and Students working in hydropower Engineering, Dam Design, Hydropower Development, Environmental Engineering, and Structural Hydraulics.

DATES & VENUE

The conference will be held on 18-19 September 2014 in Darbar Hall of Hotel Peterof, Chaura Maidan, Shimla, Himachal Pradesh- 171004. Tel: (0177) - 2812236, 2652538. Fax: (0177) - 2813801. E-mail: peterhof@hptdc.in

CALL FOR PAPERS/CASE STUDIES

The papers/case studies on the subject are invited. Intending authors may send full text of paper(s)/case study(ies) as per the guidelines/instructions given below so as to reach the Conference Secretariat by 31st August 2014. The papers/case studies accepted for presentation will be notified immediately thereafter. Only original contributions that have not been published or presented at any other conference/symposium/seminar are acceptable, otherwise the paper will not be

TENTATIVE PROGRAMME

Thursday 18th September 2014	
08:30 – 09: 45 Hrs.	Registration
10:00 – 11: 00 Hrs.	Inaugural Session
11:30 – 13: 00 Hrs.	Technical Session - I: Potential and Development Opportunities
14:00 – 15:30 Hrs.	Technical Session - II: Guidelines for Formulation and Processing of DPRs for Obtaining TEC/TEA and Survey and Investigations of Hydropower Projects – Issues and Challenges
16:00 – 17:30 Hrs.	Technical Session - III: Survey and Investigations of Hydropower Projects – Issues and Challenges
Friday 19th September 2014	
09:30 – 11: 00 Hrs.	Technical Session - IV : Innovation and Construction Experiences
11:30 – 13: 00 Hrs.	Technical Session - V: Environmental and Social Issues
14:00 – 15:30 Hrs.	Technical Session - VI: Contract Management & Project Financing
16:00 – 17:30 Hrs.	Technical Session - VII: Research & Development
17:30 – 18:00 hrs.	Concluding Session

Morning Tea: 11:00 – 11:30 hrs.

Lunch: 13:00 – 14:00 hrs.

Evening Tea: 15:30 – 16:00 hrs.

OFFICIAL LANGUAGE

The official language of the conference will be English.

REGISTRATION FEE

The registration fee for participation in the conference is Rs. 10,000/- plus service tax 12.36% per participant by cash / cheque at par / demand draft drawn in favour of 'Central Board of Irrigation and Power', payable at New Delhi. There would be 10% discount applicable to Members of CBIP, INCOLD and Forum of Hydropower producers in various River Basins in Himachal Pradesh. The registration fee includes working lunch, tea during the conference. Registration fee does not include payment for hotel accommodation or meals except those specifically indicated in the Conference Programme. The participants will have to make their own arrangement for boarding and lodging, transport, etc. at Shimla. Registration fee once paid will not be refunded.

SPONSORSHIP

Scope exists for organizations to be the Golden Sponsor or Silver Sponsor on lump sum payment with following attendant benefits:

Golden Sponsor – Rs. 3,00,000/-

- Name of the organization in the list of Sponsors
- Organization may nominate ten delegates
- Time slot for making presentation
- One full-page black & white advertisement in the proceedings volume
- Distribution of literature/brochures

considered. The full length paper will be reviewed by the Technical Committee for oral presentation.

GUIDELINES FOR PREPARATION OF PAPERS/CASE STUDIES

Details on website: <http://www.cbip.org>

SCHEDULE

- Submission of Papers **31st August 2014**
- Intimation of acceptance of Papers **5th September 2014**

Silver Sponsor – Rs. 2,00,000/-

- Name of the organization in the list of Sponsors
- Organization may nominate five delegates
- One full-page black & white advertisement in the proceedings volume
- Distribution of literature/brochures

Supporter - Rs. 1,00,000/-

- Full registration for three delegates
- Company name & logo in conference proceedings volume
- A full page advertisement in the Souvenir
- Distribution of Literature/Brochures

ADVERTISEMENT OPPORTUNITIES

A limited space will be made available on first-come-first-served basis, for coloured advertisement to the organizations, involved in the concerned field, in the proceedings volume of the conference. The interested organizations are required to send the CD of the advertisement material, in A4 size i.e., Art Work / Negative/ Positive along with payments as detailed below by 31st August 2014.

- Inner Pages US\$ 500 / INR 30,000
- 2nd & 3rd Cover US\$ 1000 / INR 50,000
- Back Cover US\$ 1500 / INR 75,000

* Service tax extra @ 12.36%.

Service Tax Registration No : AAAJC0237FST001

PAYMENT

All payments are to be made by the following methods. No other methods of payment are acceptable. Registrations/ Sponsorships/ Advertisements

- Cash
- Banker's Cheque payable to : Central Board of Irrigation and Power, New Delhi
- Bank Transfer :

Name of Bank : HDFC Bank Ltd., G-3/4, Suryakiran Building, 19 K.G. Marg, New Delhi - 110 001

Beneficiary Details:

Organization : Central Board of Irrigation and Power
Account No. : 00031110004411
MICR Code No. : 110240001
Swift Code : HDFCINBBDEL
IFSC : HDFC0000003

Bank charges if any, must be borne by the participants and should not be deducted from the amount remitted to the Conference Secretariat.

SECRETARIAT

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Malcha Marg, Chanakyapuri, New Delhi-110 021
Phone: 91-11-26115984 / 26116567; Fax : 91-11-26116347
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Conference on **Challenges and Barriers in Hydropower Development** 18-19th September 2014, Shimla, H.P.

REGISTRATION FORM

(To be filled in block letters, preferably typed)

1. Name of Participant _____
(Surname) (First Name) (Prefix Prof/Dr./Mr./Mrs./Ms.)
2. Designation : _____
3. Name of Organization: _____
4. Mailing Address : _____
City _____ State _____
Country _____ PIN _____
Phone : _____ Fax _____
E-mail : _____
5. Payment details
Bank Draft/cheque No. _____ dated _____ INR _____ drawn on Bank _____
is enclosed/is being sent separately.
 I am interested in attending the Conference as a delegate. Please send further details.
 I intend to submit the full text of paper titled _____ for consideration.
If it is accepted, I or my representative will attend the conference to present the paper by 31st August 2014.
 My organization may wish to nominate officers for participation in the deliberations of the conference. Please send further details.
 My organization may be interested in sponsorship opportunities. Please send details.
Dated _____ Signature _____

Registration Form duly filled in, together with necessary payments to be mailed to the following address:

Secretary

Central Board of Irrigation & Power Malcha Marg, Chanakyapuri New Delhi 110 021, India
Phone : +91-11- 2611 5984/2611 1294; Fax : +91-11-2611 6347 E-Mail : sunil@cbip.org; cbip@cbip.org

Note: • The last date for receipt of the registration form is 10th September 2014.

- Photocopies of the registration form can be used for additional requirements, if any.
- Spot registration facilities will also be available, provided the prior information is received.