



# IPPAN

## MESSAGE FROM IPPAN PRESIDENT



**Shailendra Guragain - President, IPPAN**

**R**emarkable events have happened in the past few months in the energy sector. One of the most prominent one was the Energy Cooperation MoU between Nepal and Bangladesh signed on August 10, 2018 for which I would like to offer my sincere gratitude to the two governments. Furthermore, talks for cross border transmission line with China is also underway. Both the events will pave the way for future power trade between the countries and private sector will have a crucial role to play if the cooperation is implemented. On the other hand, in the internal energy sector, NEA made partial payment for posted PPA rates for some of the projects. I would like to congratulate and also thank

the projects and members of the executive committee of IPPAN for their persistent effort. Further, on request of IPPAN and member IPP's, NEA agreed to reduce the completion time for the substations along the Koshi Corridor Transmission line to 18 months only.

After the recent announcement by the government to allow 10% generation target for renewable power in the generation mix, IPPAN followed suit and is now open for membership to grid connected solar power producers as well. Asian Tech Corporation Pvt. Ltd. is already enlisted as the first member of IPPAN in this category.

Amidst these positive news, the most distressing is the delay in formation of Electricity Regulatory Commission (ERC) despite the act and regulation being already enacted. ERC is expected to function as a focal point for addressing most of the issues for private hydropower developers and this delay will further add to the woes of the sector. Secondly, lack of progress for transmission line is hampering projects. Despite IPPAN's efforts to facilitate the implementing agencies for early completion of transmission line as planned by conducting numerous coordination meetings that were held between IPPAN, its members and NEA, the progress made was rather sluggish. As a result, as many projects are nearing completion, delay in construction of transmission lines were likely to hamper most of these projects and many projects are likely to suffer. Another notable problem faced by IPPs is obstruction in PPA of new projects. Despite the government's announcement of 15,000 MW in the next ten years and PPAs are not being done as per the stipulated generation mix. This has prevented progress of numerous projects which have completed the design phases and are ready to make the next moves.

As we move ahead, I and the executive committee would like to encourage all the private developers and associate members to lend their helping hands to address these problems prevalent in the energy sector of Nepal.

### VISION OF IPPAN

To be the umbrella organization of IPPs that advocates for an investor-friendly environment for power development in Nepal.

### MISSION OF IPPAN

- ▶ Lobby for private sector friendly policies, regulations and their prompt and effective implementation.
- ▶ Disseminate information through media, seminar, conferences to political parties, government, Officials, civil societies and the people.
- ▶ Build capacity of IPPs and related stakeholders.
- ▶ Develop linkages for regional co-operation in power Sector.

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## IPPAN ACTIVITIES

### Hydropower Development for Prosperous Karnali Pradesh



In a series of workshops organized by IPPAN in different districts, the seventh and final one was organized in, Birendra Nagar, Surkhet, Karnali Pradesh. This workshop was somewhat different from the ones organized earlier to make it more conducive with the newly formed federal government.

The one day workshop organized on April 1, 2018 was graced by respective State Minister Hon. Mr. Mahendra Bahadur Shahi as the chief guest. The program was attended by over 80 people including state ministers Hon. Mr. Khadga Bahadur Khatri, Hon.

Mr. Prakash Jwala, Hon. Mr. Nanda Singh Budha, local level politicians, officials from local level government, and local journalists.

The program was inaugurated by Mr. Shailendra Guragain, President IPPAN, followed by the welcome remarks from Mr. Kush Kumar Joshi, Former President FNCCI, Mr. Gokarna Pantha, SDE Ministry of Energy, Water Resources and Irrigation, and Chief of District Coordination Committee of Surkhet. Mr. Khadga Bahadur Bisht, former President of IPPAN, gave a presentation on the hydropower potentials of Karnali Province including

the major portions of the planned and ongoing projects and its subsequent benefits to the state.

The second session of the program covered the following themes

- Government's Policy and Plans for Hydropower Project
- Hydropower Projects under development in the province
  - Upper Karnali Hydropower Project
  - Nalgad Hydropower Project
  - Bheri 4 Hydropower Project
  - Bheri Babai Diversion Project
- Provincial Issues for Hydropower Development
  - ILO 169
  - Process involved in hydropower development and impediments
  - Affected Area, Local Shares and Right to Resource
- Local Level Program

On 3<sup>rd</sup> April, as a part of Managing Resource-Based Disputes for Peace Building and Economic Growth Project, IPPAN conducted a local level program at the Tila Gufa Nagarpalika Ward Number 6 Galje, Kalikot, Karnali Province. There were many hydropower projects identified in the region which were still under study and development phases. A similar program was hosted wherein the local perception on hydropower projects was collected. The event was attended by 25 local residents including Deputy Mayor of the Nagarpalika.

### Himalayan General Insurance Summit 2018 in Association with IPPAN

In a follow up with the Disaster Risk Management Workshop organized in November 2017, IPPAN had organized a workshop to build capacity of hydropower developers regarding insurance practice. IPPAN together with Himalayan General Insurance (HGI) and MARSH, International Insurance Broker, organized a workshop titled "**Himalayan General Insurance Summit 2018 in Association with IPPAN**" on 20<sup>th</sup> April 2018 to underscore current scenario of insurance practice for hydropower projects in the country and highlight global insurance market for power construction risks, insurance procurement process, risk management and claims process from international experts on hydro energy related insurance.

The importance of insurance for any infrastructure development project can never be overlooked in a country like Nepal due to its topography and climatic conditions. Particularly hydropower projects are at greater risks due to earthquakes, landslides, floods, Glacial Lake Outburst Floods, and Landslide Dammed outburst floods. The massive earthquake of April 25, 2015, landslide at Jure and GLOF in Bhotekhoshi River



illustrated risks posed by such events on hydropower. Besides the risks posed by such natural calamities, other events intrinsic to hydropower projects are like machine failure, fire, failure of transmission lines, vandalism, technology change also increase

its vulnerability. Hence, to indemnify projects under adverse circumstances insurance is a must. As a primary example, Upper Bhotekhoshi project devastated by GLOF and earthquake did benefit from the purchase of a suitable insurance policy.

Mr. Shailendra Guragain addressed the workshop highlighting importance of insurance for hydropower projects often considered as the backbone of economic prosperity and pointed out the gaps therein. Chief Executive Officer of Himalayan General Insurance, Mr. Sushil Bajracharya, pointed out the fact that insurance policy is still considered only as a part of paper work prerequisite for financing agencies and not as a risk mitigating tool. The workshop started with a presentation on "Hydropower Insurance: Developers' Perspective" by Mr. Ashsih Garg, General Secretary IPPAN. In the presentation, the present practice of insurance in Nepal versus that of the International Market along with insurance coverage and pricing factors were also explained. He also pointed out that the projects could benefit from the purchase of Loss of Profit Policy wherein loss due to project delay can be mitigated thereof. Mr. Scott Peachy from MARSH explained how every project is different and the subsequent need of a tailor-made insurance policy. He also delved on the hydropower



projects as being complicated in terms of risk assessment and made comparison with other energy projects like thermal, solar and wind. All in all, he highlighted the fact that a thorough understanding of risks and insurance coverage is mandatory for better compensation in case of any abnormality.

## Risk Management in Hydropower

Hydropower projects are complicated and include heterogeneous aspects. Thus, hydropower projects are influenced by several factors and hence are seldom without risks. Further, risks at the early phase varies significantly with risks during construction and more so during operation phase of the project.

Hence, it becomes imperative that a hydropower project has a robust risk management scheme to identify, rate and mitigate (take or avoid) risks in order to secure investment. On the whole, the significance of the risk management for hydro projects can never



## Stakeholders meeting for Review of Institutional and Good Governance Guidelines for Independent Power Producers' Association Nepal



IPPAN together with Niti and The Asia Foundation (TAF) have undertaken a project named 'Managing Resource-Based Disputes for Peace Building and Economic Growth.' This three year project intends to promote an evidence-based and representative policy response by the relevant states and private institutions in preventing, mitigating, and managing resource-based disputes in the hydropower development.

The private producers were at the forefront of realigning the local expectations, despite the lack of mechanisms they were compelled to do so on a vis-à-vis project basis. Apparently a key factor behind the failure in dealing with these resource-based disputes in hydropower development is the absence of clarity in defining the policy problems as well as minimum interest shown by the authorities in mediating which then manifested itself in an unclear policy laden response. In order to overcome this problem and to have a methodical approach as well as to avoid and mitigate resource based disputes, a thorough evidence based research was conducted by the program for recommending proper policies and actions. Based on the research and in order to have a more comprehensive and effective means of managing local expectations with inputs from the world standard practices, the project had prepared



institutional guidelines replete with good governance for the private developers and organizations to promote consistency in their approaches.

A stakeholder's review meeting was held in two stages: first a closed group meeting was conducted with inputs from the experts in the field subsequently followed by the reviews from the hydropower developers as of July 18, 2108 and later on July 30, 2108 after incorporating comments from the first review meeting. The guidelines will be published by the end of this year and a capacity building program will also be initiated to train hydropower developers accordingly.

be ignored in a country like Nepal especially due to the topography, climatic conditions and inconsistent policies. Therefore, IPPAN together with World Wildlife Fund Nepal and Nepal Bankers' Association (NBA) organized a **Risk Management in Hydropower** on 27<sup>th</sup> April 2018.

The workshop attended by over 90 participants included presentations from NBA wherein risks pertinent to hydropower from a financiers' perspective were also presented and IPPAN too presented the various risks inherent in hydropower projects. Dr. Joerg Hartmann, Accredited Lead Assessor, Hydropower Sustainability Assessment Protocol, illustrated risks associated with hydropower project for international projects and based on a research (Ansar et al 2013 based on 245 project samples) pointed out the fact that hydropower projects in average face a cost over-run of 96% and time over-run of 44%. Following this scenario he also pointed out various methods of risk identification and risk rating (namely risk matrix, Monte Carlo method). In the closing session all the participants expressed the quantum of risks they encountered during project implementation and how they could have been avoided through a proper risk management system.

## Role of Insurance in Nepal Hydropower Development

IPPAN in continuation with the series of workshops on risk management in hydropower organized a workshop on 'Role of Insurance in Nepal Hydropower Development' in association with USAID's Nepal Hydropower Development Program (NHDP) on June 13, 2018. The main objective of the workshop was to evaluate the findings of the previous workshops and make recommendations for improvements in hydropower insurance sector.

The workshop was conducted in two sessions; presentations followed by panel discussion. The program commenced with a welcome speech from the President of IPPAN Mr. Shailendra Guragain. Mr. Ashish Garg, General Secretary IPPAN, elaborated on the present practice of insurance procurement in hydropower field and available insurance coverage for hydropower projects. Presenting a comparison of insurance products in domestic market and international practice, he stressed the need to shift from the paradigm of fixed pricing to risk based for hydropower projects. Similarly, Mr. Shreeram Pethi Senior Manager, Energy & Resources, Deloitte, highlighted on the insurance policies that typically play an important but narrow role in the electricity sectors of developing role and how it has been used as a tool for reducing the liability rather than to provide comprehensive protection against all the financial risks. He also reiterated that hydropower projects are unique in themselves as they need to be customarily fit with the site conditions which necessitates hydropower insurance policy to be distinctive as well.

In the second session of the event, Mr. Khadga Bahadur Bisht, Immediate Past President of IPPAN, chaired a panel discussion based on the presentations and the conclusion drawn on the report (Role of Insurance in Hydropower Development) prepared by NHDP. The panel constituted of prominent professionals from insurance, banking and energy sector; as listed below:

1. Mr. Bhoj Raj Sharma  
Insurance Specialist (Advisor)  
Insurance Board of Nepal
2. Mr. Sanjay Dhungel  
Deputy Director General, Department of Electricity Development (DoED)
3. Mr. Gyanendra P. Dhungana  
President, Nepal Bankers' Association
4. Mr. Dip Prakash Pandey  
President, Nepal Insurers' Association
5. Mr. Chhabi Raj Pokharel  
Chief Executive Officer, HIDCL

The discussion yielded a number of concurrent issues to the floor focusing on the supply and the demand sides including the regulatory requirements. Majority of the stakeholders agreed to the fact that insurance is the best tool for de-risking hydropower projects during construction, operation, and subsequent handover to the government. All the stakeholders agreed to the fact that the domestic insurance market is not fully developed and there is much reliance on reinsurer for



even a medium and or a large hydropower projects. It was also discussed that home grown projects view insurance as expense rather than an investment for getting their risks covered. Moreover, the insurance policy used for hydropower development are most of the time lender driven (for large projects) with developers taking a back-seat. On the other hand, it was argued that the insurance offered for hydropower is rather limited thus medium and large scale hydropower developers (mostly with FDIs) seek for a more sophisticated policy available in the international market. It was also deliberated to rethink the current

regulation to control investment portfolio for insurance to prevent insolvencies which limits involvement of insurance companies in hydropower development.

Through the deliberation, it became apparent that all the involved stakeholders need to build technical capacity in terms of risk identification and understanding of insurance in general and come together to devise a 'blanket' insurance policy suitable to the context of Nepal addressing issues of all the involved to ensure hydropower projects are safe and sound.

## An Interaction Session on Power Sector Cooperation between Bangladesh and Nepal

Bangladesh Embassy in Nepal, Independent Power Producers' Association Nepal and Energy Development Council jointly organized an interaction session **on Power Sector Cooperation between Bangladesh and Nepal** in the wake of Energy Cooperation MoU between Nepal and Bangladesh. The event was organized on August 10, 2018 with an audience of over 100 participants representing the government and private sectors, delegations from Bangladesh and Her Excellency Ms. Mashfee Binte Shams, Ambassador, and representatives from Bangladesh Embassy in Nepal. The event had His Excellency Mr. Narsul Hamid,



MP, Honorable State Minister, Ministry of Power, Energy and Mineral Resources, People's Republic of Bangladesh as the chief guest.

The event unfolded with an opening address by Mr. Shailendra Guragain, President IPPAN, wherein he remarked that the agreement is encouraging and could possibly pave a way forward for the two countries for a much needed, multi-dimensional power cooperation for energy security and reliable energy supply in line with the framework of SAARC Energy Agreement, as well as the BBIN Initiative. In addition, he said that this was just a stepping stone for both the countries and an appropriate moment for the government and private sector to execute this agreement a notch further in building partnership for additional energy cooperation. He solicited for investment from Bangladesh and added that IPPAN would do its best in its capacity to facilitate such investments.

Mr. Khadga Bahadur Bisht, Past President of IPPAN, presented the possibility of energy security for both the countries by energy exchange not only with

preemptive rights to one country. He pointed out that almost 8,000 MW of power can be developed by Bangladesh for import from Nepal in the next 8-10 years either in Government to Government, Government to Private or Private to Private Model.

H.E. Narsul Hamid addressing the interaction program stressed on the energy development plan laid down by Bangladesh and indicated that Bangladesh intends to fulfill 10% and 15% of its energy need from renewables and regional grids respectively. For this to materialize, he added that Bangladesh looks forward to cooperation from Nepal (rich in hydropower potential) and the private sector for energy exchange. He also emphasized on the need of tri-lateral agreement with India and Nepal for the recently signed Energy Cooperation Agreement to materialize.

The program also hosted question and answer sessions and remarks from Mr. Maha Prasad Adhikari, CEO of Investment Board. The program concluded with remarks from H.E. Ms Mashfee Binte Shams.

## Consultation with Hydropower Sector Stakeholders for GCF Project Formulation on "Protecting livelihoods and assets at risk from climate change induced flooding in glacial river basins of Nepal."

Nepal being one of the most vulnerable countries in terms of climate change must prepare itself to protect its infrastructure and human life. Hydropower sector is identified as one of the key economic indicators of Nepal which could also be adversely affected by the impacts of climate change. Hence, installation of automatic/real time hydro-met stations, establishment of early warning system is rather important to save the massive investment required for hydropower industry. Hence, IPPAN in collaboration with United Nations Development Program Nepal (UNDP) organized a program to consult with hydropower sector stakeholders for identification of areas to be included in the Green Climate Fund project formulation which is being undertaken by the Ministry of Finance again in conjunction with UNDP.



The program that was organized on August 17, 2018 was conducted in presence of IPPAN members, representatives from Department of Meteorology and Hydrology, Kathmandu University, Tribhuvan University, Department of Irrigation, Nepal Electricity Authority, and ICIMOD.

Mr. Kumar Pandey, Vice-President IPPAN, spoke on the hazards posed by climate change with some examples and underlined that the hydropower fraternity could be one of the hardest hit by climate change. However, he pointed out the difficulty in ascertaining the change in hydrological regime, reliability of hydro models and difficulty in incorporating climate induced changes in life cycle of the project. Adding to this Mr. Ram Gopal Kharbuja, DDG, DHM, stressed the need for proper monitoring system for minimizing such risks and underlined the need for public private partnership for generation of reliable data. The program concluded with remarks from the participants who unanimously pointed out the need to have reliable data for future predications to make climate change model more reliable and not depend on foreign models which fails to take into account conditions intrinsic to Nepal. The need to establish robust data monitoring system (not just hydrology but sediment loading as well), early warning system, more gauging stations at higher altitudes to establish design criteria for hydropower projects and bilateral cooperation in order to minimize impacts of GLOFs emanating from neighboring country were also discussed.

## Procurement and Contract Management: Practical Use of FIDIC Conditions of Contract for Hydropower

In continuation to a series of workshops on sustainable hydropower development, Independent Power Producers' Association, Nepal (IPPAN) together with International Finance Corporation (IFC) and International Center for Hydropower (ICH) organized a three and a half day residential training program on 'Procurement and Contract Management: Practical Use of FIDIC Conditions of Contract for Hydropower' at Nagarkot from 24-27 September 2018.

Thirty five participants from Nepal and abroad representing the private hydropower sector, legal firms, and government organizations attended the program. Whereas the resource persons were experts in their respective fields from Norway, Canada, France and Nepal.

IPPAN in partnership with ICH and IFC conducted the training to enhance contract management capabilities within the hydropower sector as contract management is an integral part of hydropower development. In Nepal, hydropower projects are developed by project owners (employers) entering into a contractual agreement with contractors and consultants. Most of the projects use the International Federation of Consulting Engineers (FIDIC) conditions for contract. Similarly, EPC contract, unit-rate contract, EPC-Financing (EPCF) contract are also in use. Delays in project implementation indicates that majority of technical people dealing with these contracts are poorly trained and not fully capable of managing the issues arising during the implementation of the project development. The number of litigation, informal dispute resolution, and arbitration are on rise which is causing



stoppage of work and construction delays.

The program module covered the following aspects:

- Procurement Process
  - Tender Document Preparation
  - Project Readiness
  - Prequalification of Contractors and Award of Contracts
- FIDIC Conditions of Contract (Red, Yellow and Silver Book)
- Specific Issues on Contract Management and Risks for Hydropower

➤ Case Studies

- Chameliya Hydropower Project
- Arbitration in Nepal
- Kulekhani III Hydropower Project
- Kaligandaki Hydropower Project
- Chilime Hydropower Project

The program was inaugurated with welcome remarks from Mr. Shailendra Guragain (President IPPAN) and Mr. Tom Solberg (Project Director ICH) and concluded with closing remarks from Mohammad Rehan Rashid (Country Head, IFC).

## MEETINGS

### Meeting with Ministry of Energy, Water Resources and Irrigation



On 10 May 2018, IPPAN along with the hydropower developers had a meeting with Hon. Mr. Barsha Man Pun regarding the pending issue of posted rate PPA and VAT subsidy for hydropower projects. IPPAN team led by the President, Mr. Shailendra Guragain, met with the Minister and officials of Energy Ministry to request for budget provision for the posted PPA rates and in the upcoming budget for Fiscal Year 2075-76.

### Meeting with Nepal Electricity Authority regarding Marshyandi Corridor Transmission Line



To give continuity and to expedite construction of transmission lines, IPPAN representatives and developers in the Marshyandi Corridor Transmission Line met with the incumbent officials of the transmission line and Managing Director of NEA. The meeting was held on August 9, 2018 at NEA discussed on the ways of expediting the construction of the Marshyandi Corridor Transmission Line. Both the parties realized a need to work together for a timely completion of the project and expressed delays would mean spilling of scarce energy as some of the projects in the corridor are nearing completion. The meeting concluded with formation of a sub-committee

to coordinate for smooth implementation of the line and facilitate to overcome any imminent hurdles. The sub-committee comprises of the following members:

- Mr. Keshav Bahadur Rayamajhi (coordinator)
- Mr. Ananda Chaudhary (member secretary)
- Mr. Pratik MS Pradhan
- Mr. Uttam Amatya
- Mr. Prashiddha Shrestha

The sub-committee, since then, had conducted numerous meetings to discuss on ways to facilitate the implementing agency.

## Feedback on the newly drafted EIA Manual and subsequent meetings

IPPAN submitted a formal feedback on the newly drafted EIA Manual and on 16 July, 2018, IPPAN had a meeting with Dr. Krishna Prasad Oli, Member, Nepal Planning Commission regarding the same guidelines. On the same agenda, IPPAN team met with the Ministry of Forest and Environment responsible for its approval on August 9, 2018 wherein IPPAN expressed its concern regarding the manual and the guidelines for national priority projects on use of forest area.

## Meeting with Chamber of Indian Industry



On 16 August, 2018, IPPAN team met with Mr. Bhupendra Kumar Singh (Director and Head-Energy Security) of Confederation of Indian Industry regarding construction problem and other related problems in developing hydropower projects in Nepal. The meeting also included representatives from construction companies and developers.

## Meeting with Department of Electricity Development

IPPAN and a team of hydropower developers met with Department of Electricity Development (DoED) officials on September 9, 2018. The team led by Mr. Kumar Pandey, Vice President, IPPAN, discussed on the notice disclosed by DoED for projects with relatively less progress. In the meeting, hydro developers and DoED expressed their concern. Both the parties agreed to facilitate each other for hydropower in Nepal and expressed a need for better communication.



## PRESS MEET

### Press Meet for the Monetary Policy



On 16 June, 2018 IPPAN called for a press meet regarding the then imminent Monetary Policy for Fiscal Year 2075-76. IPPAN organized the meet in the midst of the ongoing financial hurdles affecting hydropower development. In the event, IPPAN expressed a need to fix mandatory credit disbursement of at least 15% to hydropower sector, fixing of interest rates for the project construction period, and expedite foreign investment approvals in Nepal.



### Press meet on Himalayan Hydro Expo 2019



Independent Power Producers' Association Nepal (IPPAN) together with Expo & Event Management Services Private Limited (EEMSPL) organized a press meet on October 29, 2018 to announce Himalayan Hydro Expo for the year 2019.

Keeping in view the energy transformation phase the nation is undergoing with unprecedented activity in hydropower construction, increased power generation, eradication of load shedding and march towards ambitious target to produce 15,000 MW in next 10 years, the organizing team believes an event like Hydro Expo will be a unique and much needed event concerning all stakeholders in the hydropower sector.



As in the year 2018, this edition of Himalayan Hydro Expo will be organized jointly by Independent Power Producers' Association Nepal (IPPAN) and Expo & Event Management Services Private Limited (EEMSPL) from 18-20 January 2019 at Exhibition Hall, Bhrikutimandap, Kathmandu.

# MEMORANDUM OF UNDERSTANDING/COOPERATION AGREEMENT

## Niti Foundation

Niti Foundation and IPPAN have signed a memorandum of understanding on May 25, 2018 to work jointly on Hydropower Project Information Mapping. The digital map will serve as a repository of information on hydropower development of the country. The product is expected to be finalized by the end of the fiscal year.

## International Finance Corporation (IFC)

On June 20, 2018 IPPAN and IFC extended term of earlier cooperation agreement to execute more capacity development programs in the field of hydropower. The new agreement will be in effect till June 30, 2019. Under the agreement IPPAN and IFC together will conduct more skill development trainings in subject related to sustainable best practices in hydropower development with regards to technical, environmental and social aspects.

## Expo & Event Management Services Private Limited (EEMSPL)



On October 16 2018 IPAAN and Expo & Event Management Services Private Limited (EEMSPL) registered at the CDO's office at Lalitpur District as well as the Social Welfare Council and entered into an MOU for jointly organizing the Himalayan Hydro Expo 2019. This edition of Himalayan Hydro Expo will be organized from 18th January 2019 to 20th January 2018 at Exhibition Hall, Bhrikutimandap, Kathmandu.

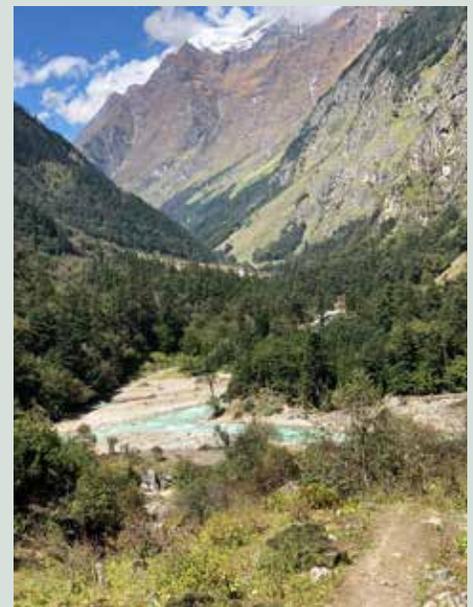
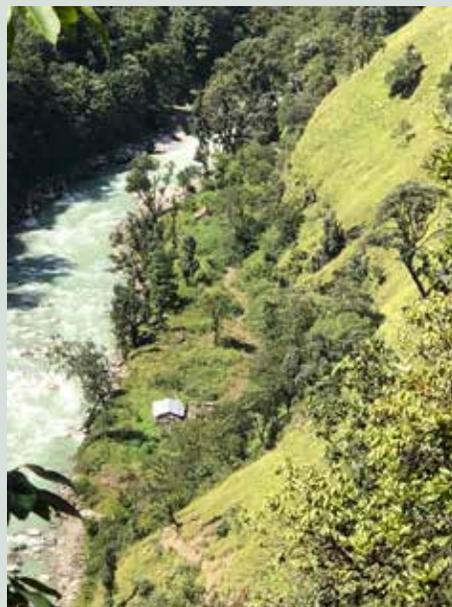
## Sheshkant Foundation

On May 29, 2018, IPPAN and Sheshkant Foundation, an organization registered at the Chief District Officer's Office in Kathmandu as well as the Social Welfare Council, signed on a memorandum of understanding to establish a potential working modality for the establishment of a skill development center (German Pravidik Shikchyalaya) for training technical manpower for the hydropower industry in Nepal.



## NEWS FROM MEMBERS

### Bajhang Upper Seti Hydropower Project



Feasibility study of Bajhang Upper Seti Hydropower Project 140 MW (Survey License No: वि.वि.वि. ०७५ /७६ वि.उ.स. १०२८) has been started by Samridhhi Energy Pvt. Ltd. the project is located at Saipal Rural municipality of Bajhang District. Survey license is obtained for ROR type project having design discharge 26.575 cum/sec (at Q45) and Head 665 meters. Total

annual energy generation from the project is estimated as 858 GWh. The generated electricity from Bajhang Upper Seti Hydropower Project shall be evacuated to the Integrated Nepal Power System (INPS) through NEA's Chainpur Substation via 132 kV transmission line. It is expected to start generation of energy from Bajhang Upper Seti Hydropower Project by 2025 AD.

## UPCOMING EVENTS

1. 17<sup>th</sup> Annual General Meeting of IPPAN
2. Himalayan Hydro Expo 2019  
18-20 January 2019

# PHOTO GALLERY



Felicitating Mr. Kumar Pandey, Vice President IPPAN for being elected as Board Member of Millennium Challenge Account Development Committee (MCA-Nepal)



Interaction Session on Power Sector Co-operation between Bangladesh n Nepal



Himalayan General Insurance Summit 2018 in Association with IPPAN and MARSH



Local level program at the Tila Gufa Nagarpalika Ward Number 6 Galje, Kalikot, Karnali Province as a part of program on 'Hydropower Development for Prosperous Karnali Pradesh'.



Procurement and Contract Management Practical Use of FIDIC Conditions of Contract for Hydropower organized jointly by IPPAN, ICH and IFC





**t** MOU Signing with Sheshkant Foundation to establish a potential working modality for the establishment of a skill development center (German Pravidik Shikchyalaya) for training technical manpower for the hydropower industry in Nepal.



**t** Workshop on 'Hydropower Development for Prosperous Karnali Pradesh'.



**t** Risk Management in Hydropower organized jointly by IPPAN, World Wildlife Fund Nepal and Nepal Bankers' Association (NBA)



**t** Role of Insurance in Nepal Hydropower Development organized by IPPAN in association with USAID's Nepal Hydropower Development Program (NHDP) –NHDP

# LIST OF IPPAN MEMBERS

## Corporate Members

S.No.	Name of Company	Tel/Fax
1	Bhote Koshi Power Co. Pvt. Ltd.	4270027/ 4273516
2	Butwal Power Co. Ltd.	4784026/ 4780994
3	Himal Power Limited	5521864/ 5536411
4	Himtal Hydropower Company Pvt. Ltd.	5260259/5260773
5	Lamjung Electricity Devt. Company Ltd.	4232748/ 4232749
6	Sanima Hydropower Ltd.	4372828/4373030/ 4015799
7	Annapurna Renewable Energy (P) Ltd.	4414519
8	Khudi Hydropower Ltd.	2053003
9	Himalayan Hydropower Ltd	4786641
10	Rairang Hydropower Devt. Co. Ltd.	5111015/5111016
11	Panchakanya Mai Hydropower Ltd.	5010078/5010080
12	Modi Energy Pvt. Ltd.	4441131
13	IDS Energy Pvt. Ltd	4169116/4238496
14	PAN Himalaya Energy Pvt. Ltd.	4244352/4225685
15	Tundi Power Co. Pvt. Ltd.	5184273/5555574
16	Muktishree Pvt. Ltd.	4785839/4785838
17	Ru Ru Jalbidhyut Pariyojana Ltd.	4419393/4419394
18	Radhi Bidyut Company Ltd.	4232748/4232750
19	Unique Hydrel Co. Ltd.	4434003/4434004
20	Nepal Hydro Developer Ltd.	4441131/4441973
21	Dordi Khola Jalabidyut Co. Ltd.	4232749/ 4232748
22	Himalayan Power Partner Ltd.	4002801
23	Numbur Himalaya Hydropower Pvt. Ltd.	4225009/4248695
24	Global Hydropower Associate Pvt. Ltd.	4268589/4248695
25	Nasa Hydropower Pvt. Ltd.	4244352/4225685
26	Sanima Mai Hydropower Ltd.	4372828/4373030/ 4015799
27	Tara Energy Pvt. Ltd.	5555707/5555701
28	River Falls Power Ltd.	4223608/4373020
29	Ngadi Group Power Limited	5705159
30	Energy Engineering Pvt. Ltd.	4478225/9851015956
31	GMR Upper Karnali Hydropower Ltd.	5260259/5260518
32	Sinohydro-Sagarmatha Power Co. (P) Ltd.	4376664/4378378
33	Solu Hydropower Pvt. Ltd.	4423286/4260266
34	Mailung Khola Hydropower Co. Ltd.	4432372/4419703
35	Liberty Energy Company Ltd.	4443545/4441988
36	Sikles Hydropower Pvt. Ltd.	5012027/5520254
37	Laughing Buddha Power Nepal Ltd.	4231446
38	Mount Kailash Energy Company Ltd.	4302706/4302707
39	Kalika Power Company Ltd.	4439152/4439155
40	CEDB Hydropower Development Co. Ltd.	4101140/4251080
41	Nepal Water & Energy Development Company	4412257/4412557
42	Eastern Hydropower Ltd.	5242872
43	Sanvi Energy Pvt. Ltd.	4415513
44	Dovan Hydropower Pvt. Ltd.	6214401/ 9851125161
45	United Modi Hydropower Ltd.	4169114/4169113
46	Bhairabkunda Hydropower Ltd.	4420108/ 4418139

S.No.	Name of Company	Tel/Fax
47	Tamor Sanima Energy Pvt. Ltd.	4415022
48	Panchthar Power Co. Pvt. Ltd.	5251004/5251003
49	Idi Hydropower Company Pvt. Ltd.	9851018118
50	Aankhukhola Jalvidhyut Co. Ltd.	4429789
51	Consortium Power Developers Pvt. Ltd.	4462856/4462856
52	Chhyangdi Hydropower Ltd.	4424925/ 4259582
53	Trade Link Global Pvt. Ltd.	4244408
54	Puwa Khola One Hydropower Pvt. Ltd.	4102710
55	Madi Power Pvt. Ltd.	4437305/4417372
56	Sahas Urja Limited	4419182/4422756
57	Terathum Power Company (P) Ltd.	4253387/4240661
58	Peoples Energy Ltd.	4781891/4785671
59	Bindhyabasini Hydropower Development Co. Pvt. Ltd.	4781891/4785671
60	Jhyamolongma Hydropower Devt. Co. Pvt. Ltd.	5520254/5012027
61	Hydro Empire Pvt. Ltd	4154879
62	Molung Hydropower Co. Pvt. Ltd.	4670518/4670442
63	Shiva Shree Hydropower (P) Ltd.	4222042/42221288
64	Shuvam Power Limited	4238159/4373020
65	Orbit Energy Private Limited (Pokhari Hydropower Company Pvt. Ltd.)	4438203
66	Blue Energy Pvt. Ltd.	4221305/4216606
67	Barun Hydropower Company Ltd.	4226590
68	Union Hydropower Ltd.	5525406/5525406
69	Peoples' Hydropower Co. Pvt. Ltd.	4785923
70	Himalaya Urja Bikas Co. Ltd.	4111853/673/674
71	Upper Solu Hydro Electric Co. Pvt. Ltd.	4426941/4426942
72	Siuri Nyadi Power Pvt. Ltd.	4238159/4373020
73	Gorakshya Hydropower Co. Pvt. Ltd.	4222934/4225281
74	Singati Hydro Energy Pvt. Ltd.	4437155/4437156
75	Pashupati Environmental Power Co. Pvt. Ltd.	4380505
76	Dudhkoshi Power Company Pvt. Ltd.	4469270/4491475
77	Lohore Khola Hydropower Company Pvt. Ltd.	4462856/4462856
78	Jal Shakti Hydro Company Pvt. Ltd.	4219730/4225281
79	Kabeli Energy Ltd.	4785735
80	Bhujung Hydropower Pvt. Ltd.	4480564
81	Sagarmatha Jalbidhyut Company Pvt. Ltd.	4105087
82	Barahi Hydropower Public Ltd.	5532678
83	Mountain Hydro Nepal Ltd.	4672442
84	Ghalemdi Hydro Limited	4362520
85	Mabilung Energy Pvt. Ltd.	9851110896
86	Lower Erkuwa Hydropower Company Pvt. Ltd.	5172685
87	National Hydro Power Co. Ltd.	5172685/5172683
88	Myagdi Hydropower Pvt. Ltd.	4428168/4428368
89	Century Energy (P) Ltd.	4116119
90	Him River Power Pvt. Ltd.	4441535
91	Annapurna Vidyut Pvt. Ltd.	9851168353

S.No.	Name of Company	Tel/Fax
92	Taranga Khola Sana Jal Vidhyut Aayojana Pvt. Ltd.	01-6923768
93	Multi Energy Development Pvt. Ltd.	4781891
94	Suri Khola Hydropower Ltd.	4117008
95	Sano Milti Khola Hydropower Ltd.	2298250
96	Sanigad Hydro Pvt. Ltd.	5529926/5524335
97	Kalanga Hydro Pvt. Ltd.	5529926/5524335
98	Bungal Hydro Pvt. Ltd.	5529926/5524335

S.No.	Name of Company	Tel/Fax
99	Taksar Pikuwa Khola Hydropower Pvt. Ltd.	4221777
100	Nyadi Hydropower Limited	4781776
101	Rising Hydropower Company Pvt. Ltd.	4105124
102	Bhagawati Hydropower Development Co. Ltd.	4111673/4111945
103	Vision Energy and Power Pvt. Ltd.	4785528
104	Dhaulagiri Kalika Hydro Ltd.	4436819/4442730
105	Three Star Hydropower Company Ltd.	6635080
106	Samriddhi Energy Pvt. Ltd.	5705159

## Associate Members

S.No.	Name of Company	Tel / Fax
107	Shangrila Energy Ltd.	4431545/ 4439267
108	NMB Bank Limited	4246160
109	Nepal Hydro & Electric Ltd.	4785136/ 4781851
110	ICTC Pvt. Ltd	4434895/ 4434937
111	Jyoti Bikash Bank Ltd.	4168605/4442192
112	Nabil Bank Ltd.	4227181/4226905
113	Himalayan General Insurance Co. Ltd.	4231788/4241517
114	Standard Chartered Bank Nepal Ltd.	4782333*447 ext/ 4780762
115	Sanima Bank Ltd.	4428979/4428969
116	Sunrise Bank Ltd.	4004560/4422475
117	Qiankang Allonward Hydro-Equipment Co. Pvt. Ltd.	4228816/4223570
118	Jade Consult Pvt. Ltd.	4247237/4232171
119	Mahavir Shreee International Pvt. Ltd.	4110860/4110855

S.No.	Name of Company	Tel / Fax
120	GCE Group Pvt. Ltd.	4222202
121	Pioneer Law Associates	5705340
122	NRN Infrastructure & Development Limited	4002638/4002639
123	Dolma Advisor Pvt. Ltd.	4431376
124	Neupane Law Associates	4101631
125	Hydro Magus Pvt. Ltd.	9808953879
126	ACME Technotrade Concern	5552413
127	ChainLink Engineering Private Limited	6636267
128	NLG Insurance Company Ltd.	4006625/4416427
129	Schimmer Energy Pvt. Ltd.	5111026/27
130	APE Power Pvt. Ltd.	9103340273233
131	Premier Electric Marketing Pvt. Ltd.	9108049513103
132	NIC Asia Bank Limited	5111177/5111179



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