



# IPPAN

## Message from IPPAN President

Dear colleagues, today country's economy is severely affected, the impact of devastating earthquake followed by the blockade at the Nepal-India border points are taking its toll on the economy. All sectors of national economy are in dire situation but issues with the Ministry of Energy is incomprehensible. Internally created dysfunctional interrelationship between the line ministry and the national electricity utility has kept generation and transmission projects in disarray. And the utter frustration is that we do not know when this relationship will smoothen.

But then, IPPAN continued its effort in overcoming challenges by meeting decision makers and government officials throughout the year. Some of the key issues that we were pursuing were already in our programs last year and added to them were two key points.

**Post Disaster Need Assessment (PDNA):** It took two months for the government to organize a team to work with the PDNA and the National Planning commission was entrusted with the work. IPPAN had rounds of discussion with the NPC officials and the World Bank officials on putting up a comprehensive PDNA report for "Electricity Sector". Our colleagues at IPPAN worked day-and-night to put a document on given time. Government through a well-attended donor meet garnered quite appreciable support for rehabilitation of the damaged project. There is IPPAN request at the Ministry of Energy and the National Planning Commission pending approval for relieving damaged hydropower projects through concessionary interest fund. Time and again IPPAN is promised for some kind of support and with the recent passing of the law relating to the reconstruction, we are hopeful that some positive decision will be done soon.

**Declaration of Energy Emergency for Energy Security:** The news of blockade started coming from Ashwin 5, 2072 only two days after the constitution was passed by overwhelming majority and everyone trying to understand the repercussion of it. IPPAN started preparing a complete road-map for energy security and on Ashwin 17, 2072 made a presentation to the Parliamentary Agriculture and Water Resources



*Khadga B. Bisht- President, IPPAN*

Committee (AWRC). IPPAN's recommendation for energy secure nation were taken seriously by the Committee and hence asked the Ministry of Energy to prepare a plan for energy security. On the same basis, IPPAN met with the Minister of Energy, Finance Minister and several political leaderships for taking firm steps on attaining energy security. As a starting point, IPPAN requested the authorities to declare Energy Emergency until Nepal generates equivalent of 10,000MW. Energy Emergency declared in BS 2067 achieved very little because of its incompleteness and the fact that it has to pass through same bureaucratic maze. So the declaration of Energy Emergency now has to come with concrete action points and time-schedule, which among other shall include establishment of a single approval desk, providing one more chance to recently cancelled projects due to CIAA recommendation, provide private sector to build transmission line under BOT model, provide Rs. 50 lacs/MW subsidy to those projects that were commissioned from the date the subsidy was announced during the earlier Emergency in April, 2011, take up storage project Budhigandaki and Nalsing Gad under project company model, revise

the consumer tariff and come up with seasonal tariff, peaking tariff and solar power feed-in tariff.

The regularization of power trade agreement with India, the enactment of new electricity Bill and sector re-structuring and decision on foreign currency based PPAs are still pending and the authorities has to decide on it soon. It would not be an under-statement to say that, Nepal has moved very little when it comes to hydropower development in the past twelve months.

Having said this, I still believe that hydropower is the only sector for Nepal's socio-economic transformation and we at IPPAN are firmly committed to work with the government as well as national and international organizations in all aspects of hydropower development for the benefit of the developer and for the benefit of the country.

### 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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### Cooperation Agreement between IPPAN and International Finance Corporation (IFC)

The Cooperation Agreement between IPPAN and IFC was signed on 23<sup>rd</sup> January 2015 at Hotel Yak & Yeti. Mr. Khadga B. Bisht, IPPAN President and Mr. Valentino S. Bagatsing, Resident Representative, IFC had signed the Cooperation Agreement. This Cooperation Agreement is for promotion of the sustainable hydropower development in Nepal by providing assistance to the private sector and Government of Nepal by way of promoting adoption of technical, environmental and social international best practices. The Project includes organization of sector level workshops and trainings to assist groups for hydropower developers for substantiating the technical, commercial, financial, environmental and social issues over the next two years.

Executive Committee Members, members and advisors of IPPAN, IPPs, IFC delegates



and Energy Journalists were present during this signing ceremony.

IPPAN and the Resident Representative from IFC had given their respective addresses in the program. Khadga B. Bisht, President of IPPAN had said "IFC's performance standards and sustainability guidelines will play a key role in ensuring that hydropower developers and contractors adopt global best practices in the development of hydropower projects," to which Valentino S. Bagatsing, IFC Resident Representative for Nepal had added "As Nepal's hydropower sector grows to meet its energy demands, it needs to do so in a sustainable way," and concluded by saying, "This partnership will help stakeholders develop more sustainable and bankable hydropower projects and help them engage better with local communities."

### Workshop on "Consensus and Capacity Building in Hydropower Projects"



IPPAN had organized a two-day workshop on "Capacity and Consensus Building in Hydropower Projects" from 11<sup>th</sup> to 12<sup>th</sup> April, 2015 in Pokhara.

Hydropower projects are often considered as highly sensitive in nature and in some cases are at times over politicized presumed to be a lack of awareness among the political parties, local authorities and local population in general. Once the project starts the mobilization works, locals from the vicinity of the project come forth demanding several benefits ranging from employment as well as to declaring their village as project affected area conspicuously a complete disregard to the already concluded environmental impact assessment study which clearly marks the project affected area and mitigation measures. Physical threats are widely experienced by the project developer on which IPPAN has time and again issued press releases in detest.

The main objective of the training workshop was to facilitate the implementation of hydropower projects and transmission line projects through capacity and consensus building among local stakeholders. The workshop intends to initiate an objective of capacity building amongst the local politicians, local authority



and the local journalists and thereby create a model of communicative platform between the local level and the project developer.

The first day of the workshop centered on the capacity and consensus building to educate the journalists on the basics of hydropower empowering them to advocate and act in accordance with the removal of the probable barriers to hydropower project development. The President of IPPAN, Mr. Khadga B. Bisht gave his presentation on the basics of hydropower, understanding energy conversion its design discharge, head and energy values etc. The presentation topics also covered regulatory framework as well as environmental aspects of developing a hydropower project. Mr. Bikas Thapa, prominent journalist from Annapurna Post elaborated on the topic "Reporting on Hydropower."

On the second day, Prof. Dr. Govinda Raj Pokharel, Vice-Chairman, National Planning Commission formally inaugurated the program and complemented

with his inaugural address. Furthermore, Dr. Govinda Nepal, Member- National Planning Commission, Mr. Shanker Koirala, Former Minister, Mr. Surya Nath Upadhaya, Former Secretary, Mr. Sirranjan Lacoul, Former Secretary, Mr. Khadga B. Bisht, President, IPPAN, Mr. Salil Devkota, Mr. Suryaman Shakya and Mr. Anil Devkota all spoke on relevant topics for the day.

Parliamentarian, Secretary from the Ministry of Energy, District Administrative Officers along with the Local Development Officers from Kaski, Myagdi, Parbat and Syangja, including the CDO and DFO from Kaski and local political leaders from Nepali Congress, CPN-UML, UCPN- Maoist, RPP along with the energy journalists from Kathmandu as well as local journalists from Kaski, Myagdi, Tanahu, Syangja, Lamjung and Parbat also took part in the program.

Three main thematic sessions of the program were: 1) Why Hydropower for Nepal? 2) Why we fail in project implementation? 3) Consensus in Hydropower Development.

## IPPAN-IFC Training on “Sustainable Development of Hydropower”



IPPAN in collaboration with IFC had organized a one and a half day residential workshop on Sustainable Hydropower on 10<sup>th</sup> and 11<sup>th</sup> of March, 2015 at Dhulikhel Mountain Resort. This workshop was construed as a platform with exposures on exchanges and learning facilities of hydro-related technicalities, project management, environment and social topics.

Altogether there were twenty-five participants from IPPAN. Ms. Kate Lazarus from IFC, Mr. Richard English from IFC, Dr. Sebastian Palt, Hydropower Expert - Hydropower Project Manager at Fichtner, Mr. Harald Von Bueren from Fichtner were the international resource persons while Mr. Bigyan Shrestha, Project Manager at Upper Tamakoshi Hydroelectric Project, and Mr. Surya Man Shakya, Environmental Expert provided their dispositions as local resource persons.

The prescribed course was tailor-made for those Project Managers, Deputy Project Managers and Assistant Project Managers who possessed experience in the overall hydropower development aspects.

The course focused on the Electro-Mechanical Specifications, EIA baseline survey & Project Management enabling to deal with a sound knowledge on key electromechanical parameters and procurement options. This also entails efficiency, quality, reliability and budgeting, operations and maintenance and after sales services from the supplier/manufacturer, Performance Standard (PS1) and also conduct discussions on how to render good practice EIA baseline surveys as a first step towards the identification and management of E&S impacts and eventually highlight tools and methods to be used for the Project Management.

## The 5<sup>th</sup> Asia Energy Security Summit (AESS) in Kathmandu



The Independent Power Producers Association of India (IPPAI) had organized the 5<sup>th</sup> in the series of its flagship events on energy security - The 5<sup>th</sup> Asia Energy Security Summit (AESS) in Kathmandu, Nepal on 3-4 March 2015, at Gokarna Forest Resort. This

was a Track II diplomacy initiative, where government and industry leaders, regulators, policymakers, academicians and think tanks from across the Asia had participated to discuss and debate issues relating to the entire energy spectrum, particularly the emerging

issues and challenges in the energy landscape of Asia.

The 5<sup>th</sup> Asia Energy Security Summit had not only delved into the geopolitical issues that arises because of the competing demand for energy but also addressed the environmental concerns arising out of the increasing energy consumption.

IPPAN was instrumental in imparting knowledge for the sessions. Mr. Khadga B. Bisht, IPPAN President and Mr. Surya Nath Upadhaya, Former Secretary also spoke at the program.

Advisors, Executive Committee Members, Regular Members from IPPAN along with the high-level officials from Ministry of Energy, DoED including the private stakeholders also participated.

Some of the key areas of discussions were as follows:

- Geopolitics of Energy Security
- Challenges and opportunities for Regional co-operation in South East Asia and South Asia
- Future of Middle East Oil Markets and the “Shale Gas Revolution”
- Critical Energy Infrastructure Security
- Harmonization of Policy & Regulation for cross border electricity trade
- Augmenting Electricity Generation and Transmission capacities for Asia's energy security
- Environment vs. Development

## IPPAN-IFC Training on “Hydropower Project Financing”



Independent Power Producers' Association, Nepal (IPPAN) together with International Finance Corporation (IFC) had organized a one and a half day residential workshop on Hydropower Project Financing on 23<sup>rd</sup> - 24<sup>th</sup> Sept., 2015 at Gokarna Forest Resort. This course was an introduction to Hydropower Financing that had given participants with insight into the various aspects of Hydropower Financing and Risk Management to understanding the components that are necessary for a successful project and the development of a country's hydropower resources.

Altogether thirty participants from Independent Power Producers (IPPs), banks, financial institutions and government bodies participated in the residential training. The resource persons were Multi Consult & PwC & IFC and Nepalese hydro experts.

The course was tailor-made for senior officers and executives with responsibilities in the financing aspects and decision-making processes related to hydropower projects.

The course focused on the important stages of financing of hydropower projects that will enable a sound implementation of suitable development projects. It included the strategies and processes involved in securing the necessary financing for projects as well as exposing the relevant associated risk factors and suggested ways to manage those risks by highlighting the necessary factors that need to be considered. The course was also focused on the Project Development Agreement (PDA) and the challenges of export projects.

## IPPAN took part in the Impact of Disaster on Hydropower Development in Nepal

The Impact of Disaster on Hydropower Development in Nepal was organized by the Niti Foundation in cooperation with Nepal Hydropower Association (NHA) on 3<sup>rd</sup> July, 2015. The discussion focused on the post earthquake and its impact on hydro sector. IPPAN President Mr. Khadga B. Bisht gave a presentation on the “Impact of Earthquake on Hydro Projects”.

A study was carried out by Nepal Hydropower Association (NHA) on the assessment of disaster risk management in the hydropower sector in Nepal which was presented by Mr. Suman Basnet. IPPAN President Mr. Khadga B. Bisht and IPPAN Advisor Dr. Sandip Shah were invited as experts to give their feedback on the report presented by the NHA.



## IPPAN's Presentation on Energy Security to the Parliamentary Agricultural and Water Resources Committee

Immediately after the petroleum tankers were blocked at the Nepal India border on 6<sup>th</sup> of Ashwin, 2072, IPPAN brought up the issue of Energy Security in the media and made a presentation on Energy

Security to the Parliamentary Agricultural and Water Resources Committee (AWRC) on 17<sup>th</sup> Ashwin, 2072. It was well received by the parliamentarians and the AWRC asked the Energy Ministry to come

up with a plan on Energy Security. Keeping the strategic importance of Energy, IPPAN requested the parliamentarians to focus on Hydropower by declaring Energy Emergency.

## MEETINGS

### Meeting with Vice Chairman, National Planning Commission to discuss on the damages done to the Hydropower Projects by the Earthquake:

On 4<sup>th</sup> August, 2015 IPPAN team led by President Mr. Khadga B. Bisht, met with Honorable Vice Chairman Prof. Dr. Govind Raj Pokharel, National Planning Commission to discuss the damages done to Hydropower by the recent Earthquake and Post Disaster Need Assessment Report (PDNA). The PDNA was prepared by the National Planning Commission (NPC) that covers the entire country with a focus on the 14 districts which have been severely affected by the earthquake. IPPAN in liaison with the World Bank Group had assisted the preparation of the PDNA report. IPPAN President had suggested for preparing a concrete plan and to move on with the reconstruction plan very soon.



## Meeting with the Energy Minister to discuss on the damaged Hydropower Projects by the devastating earthquake.



IPPAN Delegation Team led by IPPAN President Mr. Khadga B. Bisht met the Honorable Minister for Energy, Ms. Radha K. Gyawali on 3<sup>rd</sup> March, 2015 along with the Energy Secretary to discuss on the damages done to the Hydropower Projects by the

recent earthquake. The national grid lost minimum of 82 MW of power by the damages caused by the recent earthquake of April 25, 2015 to 14 hydro power projects and the aftershocks are continuous till today.

Bhotekoshi, Mailung Khola, Siuri Khola, Sunkoshi, Upper Chaku, Lower Chaku, Middle Chaku, Bhairavkund, Baramchi, and Mathilo Handikhola (1MW) among others have been halted. Last August, transmission towers of the Upper Bhotekoshi were damaged by the landslides along the Araniko Highway halting the power generation. Even the Sunkoshi Small Hydropower Project was damaged by the Jure landslide last year.

IPPAN has asked the government to announce compensation package and introduce policy reforms so that they would be able to repair the projects at the earliest.

- ⇒ Provisioning loan on re-payment (for operating plant – but not working due to damages)
- ⇒ Availing soft loan (if not grant) for renovation of damaged projects
- ⇒ Extension of license period and PPA period
- ⇒ Extension of RCOD for under construction project
- ⇒ Detailed geological mapping and risk-assessment of river basins with the help of foreign donor agencies or governments
- ⇒ Establishing Early Warning System especially for flood to safeguard people and project down-stream especially during monsoons.

## Meeting between IPPAN Delegation Team and new Governor, Nepal Rastra Bank



IPPAN Delegation Team led by President Mr. Khadga B. Bisht met Honorable Governor Dr. Chiranjibi Nepal on 15<sup>th</sup> April, 2015 along with the IPPAN Executive Committee Members. The President congratulated the new Governor on his appointment and assumption of his duties at the Nepal Rastra Bank and presented him with the Hydropower Book published by IPPAN. The President had then put forth the following issues to the governor.

- ⇒ Interest rate for loans to hydropower projects
- ⇒ Refinancing facility from NRB
- ⇒ Restructuring/Rescheduling of Loans

- ⇒ Prior approval for interest capitalization
- ⇒ Loans in foreign currency
- ⇒ Swap fee
- ⇒ Mechanism for Foreign Currency Based PPA

Similarly on 9<sup>th</sup> June, 2015, IPPAN team led by Vice-President Mr. Shailendra Guragain met with the Honorable Governor to discuss the damages done to the Hydropower Projects by the recent earthquake. The powerful April 25 earthquake and series of aftershocks that followed the main tremor have damaged around 14 hydropower plants across the country resulting in the loss of 82 MW of electricity from the national power grid.

## Meeting with the NEA Board of Directors and its Officials:



On 4<sup>th</sup> August, 2015, IPPAN team led by the President Mr. Khadga B. Bisht met with the NEA Board Members, MD and other high-level officials to discuss on hydrology penalty. Hydrology penalty needs to be strongly pursued and the Ministry of Energy has also recommended for a waiver on this penalty.

Mr. Khadga B. Bisht and Mr. Kumar Pandey, General Secretary provided their clarifications as to why this penalty from the PPA documents should be waived.

Nepal Electricity Authority (NEA) board members Mr. Santosh Narayan Shrestha, Mr. Laxman Prasad Agrawal, Mr. Manoj Kumar Mishra, Mr. Suraj Lamichhane and the MD including other NEA officials were also present during the meeting.

## Meeting with the Honorable Chairperson of the Constituent Assembly of Nepal

### Mr. Subash Chandra Nembang and Former Prime Minister Dr. Baburam Bhattarai



IPPAN Delegation Team led by the President Mr. Khadga B. Bisht met with the Honorable Chairperson of the Constituent Assembly of Nepal Mr. Subash Chandra Nembang on 22 July, 2015 to hand over the comments compiled on the draft Constitution of Nepal 2072

regarding the Water and Natural Resource Management. Chairperson of the Constituent Assembly gave his assurance that Constitution Drafting Committee and Committee on Citizen Relations and Public Opening Collection will deliver these comments to the respective

Constitutional - Political Dialogue and Consensus Building Committee. Similarly the IPPAN team led by its President handed over the same copy of the comments made upon the draft Constitution of Nepal to the Former Prime Minister Dr. Baburam Bhattarai on 29<sup>th</sup> July, 2015.

## IPPAN Press Meet : Discussion on damages done to the Hydropower Projects by the recent devastating earthquake



Independent Power Producers' Association, Nepal (IPPAN) on 12<sup>th</sup> June, 2015 had organized a press meet to discuss on the damages done to the Hydropower Projects by the recent earthquake. On April 25, a powerful earthquake and innumerable series of aftershocks that followed the main devastating shock had damaged around 14 hydropower plants across the country resulting in the loss of 82 MW of electricity from the country's power grid.

Bhotekoshi, Mailung Khola, Siuri Khola, Sunkoshi, Upper Chaku, Lower Chaku, Middle Chaku, Bhairavkund, Baramchi, and Mathilo Handikhola (1MW) among others have been halted. Last August, transmission towers of the Upper Bhotekoshi were damaged by the landslides along the Araniko Highway halting the power generation. Even the Sunkoshi Small Hydropower Project was damaged by the Jure landslide last year.

IPPAN had suggested Nepal government to announce compensation packages and also requested to introduce policy reforms so that they would be able to repair the projects at the earliest. The total cumulative loss of the hydro projects stands at the tune of Rs 3 billion. IPPAN also advised the government to conduct a geological study and hazard mapping on river basins to prevent further possible damages. IPPAN EC members and general members, representatives from the earthquake victim projects and energy oriented journalists were also present during the press meet.

## Meeting with the new Energy Minister to discuss the unofficial blockade by India and to declare the National Energy Emergency



IPPAN Delegation Team led by President Mr. Khadga B. Bisht met with the Honorable Deputy Prime Minister and Energy Minister Mr. Top Bdr. Rayamajhi on 2<sup>nd</sup> November, 2015 along with IPPAN advisors, Executive Committee Members and Members. President, Mr. Khadga B. Bisht congratulated the new minister on his appointment and presented the Hydropower Book, published by IPPAN.

During the meeting with the newly appointed Deputy Prime Minister and Energy Minister, IPPAN urged the

minister to adopt needful measures for becoming self-sufficient on energy by formulating a national energy security policy and National Energy Emergency by identifying and promoting new energy sources and hydro power and ultimately ending monopoly on the import of petroleum products from India. Country's dependency is increasing due to many factors including NEA's conservative energy forecast and thus conditional power purchase agreements, electricity tariff and lackluster attitude of government authority while dealing with IPPs. IPPAN also apprised the energy minister that

development of hydropower can save over Rs. 40 billion annually that the country spends to import LP gas.

IPPAN also requested the Minister of Energy to introduce single desk services while declaring the National Energy Emergency with adopting fast track services in land acquisition, forest clearance and license issues and to come up with the short-term, mid-term and long-term visions and action plans to address the problems of energy crisis in facing the country.

### IPPAN's View on Energy Emergency

- Declare the Energy Emergency and set a target to develop 10,000 MW hydroelectricity
- Formation of a One Desk Approval system
- Reviving genuine projects that were cancelled by the Ministry after recommendation from the CIAA
- BOT based transmission line to the private sector
- Link PPA rate with consumer tariff
- Application date of Rs. 50 lacs/MW subsidy from Chaitra, 2068
- Sign Power Purchase Agreement (PPA) at take or pay basis
- Prioritize construction of reservoir based hydropower projects

## IPPAN Press Meet to declare Energy Emergency and National Energy Policy

Independent Power Producer's Association, Nepal (IPPAN) on 2<sup>nd</sup> November, 2015 organized a press meet to urge Nepal Government to declare Energy Emergency as the country has been suffering from an energy crisis along with a unofficial blockade imposed by the Indian government.

IPPAN said that Nepal has no other options except harnessing its hydropower potential to meet the local demands of energy for a longer term. "Emergency is an extraordinary situation and government needs to deal with the issues of energy security separately and not to take it lightly as it had done earlier." IPPAN asked Nepal government to specify special provisions while declaring energy emergency and also suspend some laws that prevent rapid development of



hydropower of which the country has tremendous potentials.

IPPAN also suggested the government to take some measures immediately like diversifying the import of petroleum, de-

veloping appropriate strategic petroleum reserves and focus on the development of hydropower. The country should start the projects that are ready for implementation at the earliest, which are Budhi Gandaki (1200 MW), Nalsing Gad (400

MW) and West Seti (750 MW). IPPAN has also suggested developing Budhi Gandaki in company model issuing initial public offering (IPO)

IPPAN also reiterated that the unofficial blockade imposed by India has affected the work of projects that are under construction due to lack of diesel. In this fiscal year, 18 projects including 8 operational projects which were affected by the recent earthquake of total capacity, approximately 222 MW is expected to be commissioned from the IPPs will also be delayed due to lack of diesel.

IPPAN also suggested Nepal government to adjust electricity tariff, sign PPA at take or pay basis, and to prioritize construction of reservoir based hydropower projects.

## UPCOMING PROGRAM

### Workshop on "Consensus and Capacity Building in Hydropower Projects"

IPPAN is going to organize a two-day workshop on "Capacity and Consensus Building in Hydropower Projects" in March, 2016 at Daduldhura. This will be the second workshop, first one which was organized in April, 2015 at Pokhara.

The main objective of the training workshop will be facilitating the implementation of hydropower projects

and transmission line projects through capacity and consensus building among local stakeholders. The workshop intends to initiate an objective of capacity building amongst the local politicians, local authority and the local journalists and thereby create a model of communicative platform between the local level and the project developer. IPPAN has a plan to carry out such workshop in five different regions of Nepal.

### "Disaster preparedness Training Program"

IPPAN together with International Centre for Hydropower (ICH) is going to organize a training course on "Disaster Preparedness" in February, 2016. This will be the tailor made program which will basically cover preparedness and safety related to floods, earthquakes and dam safety.

### Sanima Hydro: Mai Hydropower Project (22 MW) connected to National Grid

Mai Hydropower Project (22 MW) - MHP under Sanima Mai Hydropower Limited is completed. MHP is located at Danabari, Chisapani and Soyak VDCs of Ilam district. It is a run of river project with installed capacity of 22 MW. The discharge is 23.43m<sup>3</sup>/s and gross head is 122.1m. Net energy production is 125.14 GWh whereas dry season energy is 22.11 GWh and wet season energy is 103.03 GWh.

22 MW of electricity generated from MHP was evacuated through 132 kV transmission line under first phase of Kabeli corridor on October 6, 2015. Despite completion of construction and all required tests in December 2014, project was not able to supply its full capacity energy due to lack of transmission line. MHP was delivering around 4 MW through temporary arrangement of Nepal Electricity Authority- NEA's 33kV before connecting to 132kV. Kabeli corridor is planned to connect 140 MW electricity generated from ten projects to the national grid. The second phase work still needs high attention to be completed.



MHP is built with 75:25 debt/ equity. Among equity portion 70 percent financing is done by Non-Resident Nepalese and other Nepalese investors whereas 10 percent by locals and 20 percent by the general public through an initial public offering. Similarly, Mai Cascade Hydropower Project (7 MW) - MCHP is under final phase of electricity generation.



Sunkoshi Small Hydropower Plant (2.6 MW) – SSHP under Sanima Hydropower Limited (SHL) had been supplying electricity to the national grid since March 2005. The Jure landslide of August 2014 and resultant landslide dammed lake completely inundated the power plant for 36 days damaging entire powerhouse and electro-mechanical equipments. After ten months of hard working of rebuilding power plant, massive earthquake of April 2015 further damaged powerhouse building, waterways and headworks structures. Despite such huge loss, SHL has started the re-construction works and hopefully by January 2016; the plant will be ready to supply electricity to national grid.

### Lower Modi-1 Hydropower Project resumes operation



Lower Modi-1 Hydropower Project which was damaged due to the flood in the Modi river start production generation from 15<sup>th</sup> December, 2015. The project was failed to generate after the flood entered into the powerhouse. Powerhouse was fully submerged by the water and debris due to the flood in the Modi river.

The project is located at Chuwa, Kusma, Parwat district which was commissioned on November, 2014. The United Modi, developer of Lower Modi-1 is also going to develop the Lower Modi-2 HEP (10.5 MW) as cascade project which is the upstream of the Lower Modi-1 HEP which is now at study phase.

### Hydro Empire Pvt. Ltd will complete Upper Myagdi HEP by year 2019

Hydro Empire Pvt. Ltd. has undertaken Upper Myagdi HEP located in Modi VDC, Myagdi district of 20 MW producing 114.31 GWh of energy annually to complete by year 2075. The power house of the project is located 25 kms. away from Durbang, 2nd biggest town on Myagdi district after Beni, catchment area is located further 3 km. away from the power house. This project has got generation license from DoED at the end year 2070. And exactly one year after PPA has been done with NEA. Currently, this project is constructing the access road to project site and is heading towards the end of financial closure.

### Hydro Care Pvt. Ltd.



China's Chongqing Savan Electromechanical Equipment Co., LTD (CSEC) and Hongya Power Generating Equipment to Utilities Limited (HPGE) signed a joint venture (JV) agreement with Nepali Shareholders to set up company with vision to provide total Electro-Mechanical Equipment solution for Hydropower Project with name of Hydro Care Private Limited. CSEC is Chinese Company and its main businesses are hydroelectricity project design, complete E&M equipment supply, E&M equipments turnkey, project turnkey, project operation management, etc.

HPGE is one of state designated manufacturer specialized in manufacturing small and medium-sized hydropower equipments which focuses on research and development of water turbine, generator, speed governor and hydraulic hardware etc. Hydro Care Private Limited provides Water to Wire Package, Testing, Operation and Maintenance, Operation and Maintenance Contract, Construction Management & Site Supervision, Rehabilitation Works for Hydropower Projects.



## PHOTO GALLERY



📍 13<sup>th</sup> AGM of IPPAN



📍 Meeting with former VC, NPC Prof. Dr. Govinda Raj Pokharel



📍 IPPAN President and Vice President participated in World Hydropower Congress, China



📍 Meeting with former Finance Minister Dr. Ram Saran Mahat



📍 Meeting with Energy Minister Mr. Top Bdr. Rayamajhi



📍 President of IPPAN Presenting a paper on Energy Security



📍 Meeting with USAID Team



📍 C & C Program at Pokhara



📍 Meeting with Former Energy Minister Ms. Radha Kumari Gyawali



📍 Meeting with Norwegian Embassy



📍 Meeting with New Energy Secretary Mr. Suman P. Sharma



📍 Meeting with Governor, NRB



Meeting with IFC, Nepal



IPPAN-IFC Workshop on Hydropower Project Financing



Meeting with Vice Chairman, National Planning Commission



C & C Program at Pokhara



Meeting with Deputy-Governor, NRB



Meeting with NEA, MD



Meeting with Security Board, Nepal

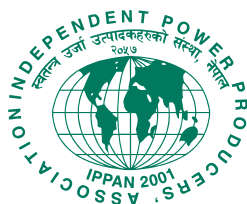
# LIST OF IPPAN MEMBERS

## Corporate Members

| S.No. | Name of Company                        | Tel/Fax                          | S.No. | Name of Company                                    | Tel/Fax                     |
|-------|--|----------------------------------|-------|--|-----------------------------|
| 1     | Bhote Koshi Power Co. Pvt. Ltd.        | 4270027/ 4273516                 | 51    | Sinohydro-Sagarmatha Power Co. (P) Ltd.            | 4376664/4378378             |
| 2     | Butwal Power Co. Ltd.                  | 4784026/ 4780994                 | 52    | Essel - Clean Solu Hydropower Pvt. Ltd.            | 4423286/4260266             |
| 3     | Himal Power Limited                    | 5521864/ 5536411                 | 53    | Chirkhwa Hydropower Pvt. Ltd.                      | 4033016                     |
| 4     | Himtal Hydropower Company Pvt. Ltd.    | 5260259/5260773                  | 54    | Mailun Khola Hydropower Co. Pvt. Ltd.              | 4432372/4419703             |
| 5     | Lamjung Electricity Devt. Company Ltd. | 4232748/ 4232749                 | 55    | Liberty Energy Hydropower Co. Ltd.                 | 4238241/4226946             |
| 6     | Molnia Power Ltd                       | 515707/515848                    | 56    | Sikles Hydropower Pvt. Ltd.                        | 061-523557/ 061-523593      |
| 7     | Sanima Hydropower Ltd.                 | 4446442/4441277                  | 57    | Hira Ratna Hydropower Pvt. Ltd.                    | 4424619/4226330             |
| 8     | Annapurna Renewable Energy (P) Ltd.    | 4414519                          | 58    | Ambeshwor Engineering Hydropower Pvt. Ltd.         | 5000075/5000300             |
| 9     | Khudi Hydropower Ltd.                  | 2053003                          | 59    | Alliance Power Nepal (P) Ltd.                      | 4233318/                    |
| 10    | Himalayan Hydropower Pvt. Ltd          | 4112091                          | 60    | Jumdi Hydropower (P) Ltd.                          | 9841447281                  |
| 11    | Rairang Hydropower Devt. Co. Ltd.      | 9757009243/<br>5111015/ 5111016z | 61    | Mount Kailash Energy Company Pvt. Ltd.             | 4387869/4350870             |
| 12    | Mai Valley Hydropower Pvt. Ltd.        | 2052566/ 5522869                 | 62    | Daraudi Kalika Hydro P. Ltd.                       | 4439152/4439155             |
| 13    | Manang Trade Links (P) Ltd.            | 4441131/                         | 63    | C.E.D.B. Hydro Fund Ltd.                           | 4251080/4260266             |
| 14    | Balephi Hydropower Company Ltd.        | 4224074/4266133                  | 64    | Nepal Water & Energy Development Company           | 4412257/4412557             |
| 15    | IDS Energy Pvt. Ltd                    | 4169116/4238496                  | 65    | Kalanga Hydro Pvt. Ltd.                            | 5551546/5552905             |
| 16    | PAN Himalaya Energy Pvt. Ltd.          | 4244352/4225685                  | 66    | Eastern Hydropower (Pvt.) Ltd.                     | 5550587                     |
| 17    | Pashupati Energy Dev. Co. (P) Ltd.     | 4422803/4433610                  | 67    | Sanvi Energy Pvt. Ltd.                             | 4415513                     |
| 18    | Tundi Power Co. Pvt. Ltd.              | 5548573/5555574                  | 68    | Dovan Hydropower Pvt. Ltd.                         | 6214401/ 9851125161         |
| 19    | Muktishree Pvt. Ltd.                   | 4785839/4785838                  | 69    | Triyog Energy and Development Pvt. Ltd.            | 5528571                     |
| 20    | Cemat Power Dev. Co (P) Ltd.           | 5539891/5539792                  | 70    | United Modi Hydropower (P) Ltd                     | 4770886/4770884             |
| 21    | Ru Ru Jalbidhyut Pariyojana Pvt. Ltd.  | 4357563/4389703                  | 71    | Bhairabkunda Hydropower Pvt. Ltd.                  | 4418319/4420108/<br>4418131 |
| 22    | Radhi Bidyut Company Ltd.              | 4232748/4232750                  | 72    | Tamor Sanima Energy Pvt. Ltd.                      | 4415022                     |
| 23    | Upper Maiwa Hydropower Pvt. Ltd.       | 4033750/4033755                  | 73    | Panchthar Power Co. Pvt. Ltd.                      | 5251003/5251004             |
| 24    | Upper Madi 0 Hydro Pvt. Ltd.           | 4033750/4033755                  | 74    | Idi Hydropower Company Pvt. Ltd.                   | 9851018118                  |
| 25    | Super Khudi Hydropower Pvt. Ltd.       | 4033750/4033755                  | 75    | Ankhu Khola Jalvidhyut Co. Ltd.                    | 4429789                     |
| 26    | Unique Hydel Co. (P.) Ltd.             | 4033750/4033755                  | 76    | Sunrise Hydropower Pvt. Ltd.                       | 91-11-47624100              |
| 27    | Shikhar Hydropower Co. Pvt. Ltd.       | 4033750/4033755                  | 77    | Consortium Power Developers Pvt. Ltd.              | 4462856/4462856             |
| 28    | Ankhu Hydropower (P) Ltd.              | 4033750/4033755                  | 78    | Chhyangdi Hydropower Pvt. Ltd.                     | 4265146/4259582             |
| 29    | Annapurna Group (P) Ltd.               | 4229222/                         | 79    | Salankhu Khola Hydro Power Pvt. Ltd.               | 4390240/4390239             |
| 30    | Grid Nepal Company Pvt. Ltd.           | 4442049/4436585                  | 80    | Trade Link Global Pvt. Ltd.                        | 4244408                     |
| 31    | Welcome Energy Devt. Co. (P.) Ltd.     | 9851095497                       | 81    | Puwa Khola One Hydropower Pvt. Ltd.                | 016911637/4417121           |
| 32    | Nepal Hydro Developer Pvt. Ltd.        | 4441131/4441973                  | 82    | Madi Power Pvt. Ltd.                               | 4437305/4417372             |
| 33    | Dordi Khola Jalabidyt Co. Ltd.         | 4232749/ 4232748                 | 83    | Hydro Venture Pvt. Ltd.                            | 4015805/4015806             |
| 34    | Himalayan Power Partner Pvt. Ltd.      | 4002801                          | 84    | Terathum Power Company (P) Ltd.                    | 4240661                     |
| 35    | Naulo Nepal Hydroelectric Pvt. Ltd.    | 4428299/4428299                  | 85    | Peoples Hydropower Co-operative Ltd.               | 4781891/4785671             |
| 36    | Numbur Himalaya Hydropower Pvt. Ltd.   | 4225009/4248695                  | 86    | Bindhyabasini Hydropower Development Co. Pvt. Ltd. | 4781891/4785671             |
| 37    | Global Hydropower Associate Pvt. Ltd.  | 4268589/4248695                  | 87    | Jhyamolongma Hydropower Devt. Co. Pvt. Ltd.        | 5520254/5012027             |
| 38    | Nasa Hydropower Pvt. Ltd.              | 4244352/4225685                  | 88    | Hydro Empire Pvt. Ltd                              | 4154879                     |
| 39    | Rara Hydropower Devt. Co. Pvt. Ltd.    | 4033016                          | 89    | Sayapatri Hydropower Pvt. Ltd.                     | 4464508/4464509             |
| 40    | Sanima Mai Hydropower Ltd.             | 4446442/4441277                  | 90    | Molung Hydropower Co. Pvt. Ltd.                    | 4670518/4670442             |
| 41    | Tara Energy Pvt. Ltd.                  | 5555707/5555701                  | 91    | Shiva Shree Hydropower (P) Ltd.                    | 4222042/42221288            |
| 42    | Nimrung Hydropower Co. Pvt. Ltd.       | 4102651                          | 92    | Baneshwor Hydropower Pvt. Ltd.                     | 4238159/4373020             |
| 43    | River Falls Hydropower Devt. Pvt. Ltd. | 4238159                          | 93    | Pokhari Hydropower Company Pvt. Ltd.               | 4438203                     |
| 44    | Ngadi Group Power Limited              | 4238159                          | 94    | Blue Energy Pvt. Ltd.                              | 4233516/4233514             |
| 45    | Baishno Devi Hydropower Co. Pvt. Ltd.  | 4228816                          | 95    | Super Mai Hydropower Pvt. Ltd.                     | 9818785021                  |
| 46    | Synergy Power Development Pvt. Ltd.    | 4440433/9851003846               | 96    | Barun Hydropower Company Ltd.                      | 4102757                     |
| 47    | Energy Engineering Pvt. Ltd.           | 4478225/9851015956               | 97    | Union Hydropower Pvt. Ltd.                         | 5525406/5525406             |
| 48    | Upper Mai Hydro Devt. Pvt. Ltd.        | 5010631/5522869                  | 98    | Madhya Midim Jalabidhyut Co. Pvt. Ltd.             | 4241291                     |
| 49    | GMR Upper Karnali Hydropowr Ltd.       | 5260259/5260518                  | 99    | Garjang Upatyaka Hydropower Ltd.                   | 4481377                     |
| 50    | Lower Arun Hydro Electric Pvt. Ltd.    | 4247237                          | 100   | Peoples' Hydropower Company Pvt. Ltd.              | 4229124/4262146             |
|       |  |                                  | 1001  | Upper Solu Hydro Electric Company Pvt. Ltd.        | 4442557/4430194             |
|       |  |                                  | 102   | Himalayan Urja Bikas Co. Ltd.                      | 4111853/4111674             |

## Associate Members

| S.No. | Name of Company                                      | Tel/Fax                   |
|-------|--|---------------------------|
| 103   | Shangrila Energy Ltd.                                | 4431545/ 4439267          |
| 104   | Clean Energy Development Bank Ltd.                   | 4671444/ 4277013          |
| 105   | Klen Tech Pvt. Ltd.                                  | 4218888/ 4430396          |
| 106   | STATKRAFT HOLDING SINGAPORE PTE. LTD.                | 5521864/ 5536411          |
| 107   | Nepal Hydro & Electric Ltd.                          | 4785136/ 4781851          |
| 108   | ICTC Pvt. Ltd  | 4434895/ 4434937          |
| 109   | Himal Hydro & General Construction Ltd.              | 5000478/5000477           |
| 110   | Hydro Solutions Pvt. Ltd.                            | 4033751/4033755           |
| 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   | Bank of Asia Nepal Ltd.                              | 4263212                   |
| 116   | Sanima Bank Ltd.                                     | 4428979/4428969           |
| 117   | Sunrise Bank Ltd.                                    | 4004560/4422475           |
| 118   | Nepal Investment Bank Ltd.                           | 4225273/4245688           |
| 119   | ACE Development Bank Ltd.                            | 4441110/4445554           |
| 120   | Feedback Ventures Nepal Ltd.                         | 4169104/4169106           |
| 121   | Qiankang Allonward Hydro-Equipment Co. Pvt. Ltd.     | 4228816/4223570           |
| 122   | Structo Nepal (P) Ltd.                               | 5521192, 5541289 /5542118 |
| 123   | Siddhartha Bank Ltd.                                 | 4442919/4442921           |
| 124   | Laxmi Bank Ltd.                                      | 4444684/4444640           |
| 125   | Grand Bank Nepal Ltd.                                | 4168605/4168609           |
| 126   | K-water (Korean Water Resources Corporation)         | 4442117                   |
| 127   | Jade Consult Pvt. Ltd.                               | 4247237/4232171           |
| 128   | Mahavir Shreee International Pvt. Ltd.               | 4110860/4110855           |
| 129   | GCE Group Pvt. Ltd.                                  | 4222202                   |
| 130   | Ghatal Trading & Suppliers Pvt. Ltd.                 | 4467461                   |
| 131   | NRNA NCC Russsia                                     | 7255093999                |
| 132   | Jin Long Hydropower Equipments Co. Pvt. Ltd.         | 5013037                   |
| 133   | Chongqing Savan Electromechanical Equipment Co. Ltd. | 4620235                   |
| 134   | Pioneer Law Associates                               | 4221340/4261000           |
| 135   | Global IME Bank Ltd.                                 | 4002507/4441502           |
| 136   | NRN Investment Limited                               | 4002638/4002639           |
| 137   | Dolma Advisor Pvt. Ltd.                              | 4431376                   |
| 138   | Neupane Law Associates                               | 4101631                   |



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