



सोसाइटी अफ कन्सल्टिङ्ग आर्किटेक्चरल एण्ड इन्जिनियरिङ्ग फर्मस्  
**SOCIETY OF CONSULTING ARCHITECTURAL AND ENGINEERING FIRMS**  
**(SCAEF), NEPAL**  
 (A National Body of Consulting Firms Recognized by Government of Nepal)

## Background

Society of Consulting Architectural & Engineering Firms, Nepal (SCAEF) was registered as a national body on August 1996 under the purview of Government of Nepal. SCAEF as a non-government organization aims to develop and promote Consulting industry in Nepal, thereby providing pivotal contribution for the noble cause of nation building. SCAEF seeks to achieve its objectives by ensuring provision of skillful and Professional services by the member firms, and also by safeguarding the professional rights, ethics, interest, privileges and duties of the Consulting profession.

SCAEF has recently completed its successful 31st year of establishment and the 32<sup>nd</sup> Annual General Body Meeting (AGBM) held on 24<sup>th</sup> December 2021 which elected 17th Executive Committee for the tenure of Two Years (2022-2023) having following members:

### 17TH EXECUTIVE COMMITTEE FOR THE TENURE OF TWO YEARS (2022-2023)

S.N.	Name	Designation	Associated Firm
1.	Er. Tuk Lal Adhikari	President	ITECO Nepal (P) Ltd.
2.	Er. Thakur P Sharma	Vice President	Full Bright Consultancy (P) Ltd.
3.	Er. Prakash Adhikaree	General Secretary	ECOCO DE Nepal (P) Ltd.
4.	Er. Kamal Karki	Joint Secretary	SLATE Consultants (P) Ltd.
5.	Er. Shrawan Kumar Thapa	Treasurer	North Star Engineering Consultant (P) Ltd.
6.	Er. Narayan Hari Rijal	Member	Paragon Engineering Consultancy and Research Center (P) Ltd.
7.	Ar. Ujjwal Man Shakya	Member	Innovative Createers (P) Ltd.
8.	Dr. Sudeep Adhikari	Member	CMS Engineering Consult (P) Ltd.
9.	Er. Mandakini Karki	Member	Soil Test (P) Ltd.
10.	Er. Rupak Bastola	Member	Civil Engineering Research and Consultancy (P) Ltd.
11.	Er. Bharat Prasad Banjara	Member	Civil Link Engineering Consultant

\* Advisory: Immediate Past President Ar. Rajesh Thapa

The executive committee is further supported by 8 sub-committees for the proportionate devolving of the various tasks/sub-tasks, thereby preparing the younger generation for the prospective leadership position. The details of the sub-committees are provided below:

S. N.	Sub-Committee	Chairperson	Advisor	Coordinator	Members
1	Ethics and Integrity	Badan Lal Nyachhyon	Bibhuti Man Singh	Ujjwal Man Shakya	Sanjeev Regmi
					Ranjit Lalchan
					Navin Ghising
2	PDCB	Uddab Raj Chaulagain	Hare Ram Shrestha	Narayan Hari Rijal	Nabin Basnet
					Ramesh Chandra Adhikari
					Shova Kumari Poudel
					Bharat Chalise
					Baburam Baral
3	NIRD/BD	Rajesh Thapa	Sanjeeb Koirala	Mandakini Karki	Naresh Nidal
					Sudhir Kumar Mishra
					Aadrata Regmi
					Kichah Chitrakar
4	IDM	Sanjiv Shah	Hare Ram Shrestha	Kamal Karki	Bishnu Prasad Khanal
					Sanjeev Kumar Jha
					Hari Krishna Dawadi
					Dipendra Kumar Jha
					Sandip Puri
5	Publication and Communication	Kiran Acharya	Ram Bahadur Shrestha	Sudeep Adhikari	Jyotimani Bhattarai
					Rakesh Maharjan
					Bhabuk Raj Aryal
					Anil Nepal
6	Award and CSR	Saroj Basnet	Badan Lal Nyachhyon	Bharat Prasad Banjara	Suman Thapa
					Upendra Luitel
					Manish Karn
					Santosh Kunwar
					I. B. Shrestha
					Laxman K.C.
7	Fellowship	Padam Oli	Keshav Kunwar	Rupak Bastola	Suganda Subedi
					Umesh Silwal
					Jonesh Joshi
					Tika Bahadur Koirala
8	SCAEF Building Fund	Ram Udar Yadav	Bal Sundar Malla	Shrawan Kumar Thapa	Rabi Bhushan Jha
					Umesh Prasad Chaudhari
					Bishwo Ranjan Singh Shahi
					Krishna GC
					Sher Bahadur Chhetri

\* PDCB- Professional Development and Capacity Building  
NIRD/BD- National and International Relationship Development/ Business Development/  
IDM- Institutional Development and Membership

## Editorial



It won't be a misnomer to state that consulting industry, particularly in the context of developing countries like Nepal has a pivotal role-play for the infrastructural development, thus equipping the nation with right hardware necessary to hurl her into the realm of unknown but inevitable paradigm shifts; social and economic. In the context of Nepal, the issue mandates more attention if we consider her fledgling federalism, the growing concern for “Resilience” in the context of Climate Change debate, further aided by the introduction of state-of-the-art technology into the country which constantly demands a dynamic approach to capacity-building of the national

institutions and the professionals. Therefore, in this context of increasing complexification of the new-world, which we are also an inseparable part, the role of SCAEF is also liable to change in tandem to catch up and make oneself in sync with the current order. SCAEF has identified 3 dimensions as discussed hereunder which provides overall framework to achieve the purpose.

**Communication:** An alert know-how of the ongoing paradigm shifts: technological and associated policies further facilitated by constant interaction between various stakeholders; public and private entities. It also entails a necessity of joint communication between the various professional entities such as Society of Nepalese Architect (SONA) and Nepal Engineers Association (NEA).

**Capacity-Building:** On the backdrop of constantly evolving technological and social frameworks, SCAEF has a liability to develop the capacity of its member firms and the associated professionals with regard to procurement procedures, project management and design methodologies. SCAEF is also aware of the fact that capacity-building of its member firms delicately hinges on their international exposure. Therefore, SCAEF seeks to explore its further role for the constructive intervention on associated policies during the tenure of this current Executive Committee. For instance, the 11<sup>th</sup> amendment on the Public Procurement Act, 2063 which was issued on 17<sup>th</sup> May, 2022 was a prime example of how the coordinated effort between SCAEF and the relevant public entity (PPMO, in this particular case) can result in the policies that may have a greater role to play for the capacity-building of the national firms.

**Commitment to Professional Ethics and Integrity:** In the present context, the size of the consulting industry in Nepal as compared to other service-providing entities is still a nominal one. This has further implication on the evolution of business practices which may not be wholly ethical to our liking. However, SCAEF is fully committed to promulgate the values among its member firms which seek to promote their commitment to professional ethics and integrity.

Last, but not the least, we all have a sincere hope that continuing on the path and values as set by the honorable leaders from the past, this Executive committee will also play a significant role for the development and promotion of consulting industry for the coming times.

**Happy New Year 2079 B.S. to you all !**

**Dr. Sudeep Adhikari**

Editor

# Message from the President



Dear colleagues and member firms,

Welcome to this issue number 01 of the SCAEF's newsletter which highlights the society's quarterly round-up of the activities, initiatives and events. Under the multiple surges of COVID, it appears in this form after a substantial gap of a few years but the current 17th Executive Committee of the SCAEF is firmly committed to make it a regular online newsletter.

The major activities during the first quarter (Jan-Mar) include formation of sub-committees and task forces, development of action plans, regular EC meetings from #702 (07 January, 2022) to #708 (21 March, 2022), online webinar on relevant matters and delegations to key government agencies and participation in various programs organized by other engineering/ architectural fraternity and like-minded institutions. The conduction trainings on the practical use of FIDIC conditions of contracts are planned: Module 1 (03-04 April, 2022) and Module 2 (06-08 April, 2022).

*Best wishes to all colleagues and member firms on the occasion of New Year 2079 B.S.*

**Er. Tuk Lal Adhikari**  
President, SCAEF

## Activities

Since the current executive committee is still at its infancy, the majority of works till date are currently under development, which primarily include:

- Orienting the new members about the objective and scope of SCAEF as an umbrella organization of the consulting engineering and architectural firms;*
- Conduction of vibrant discussion on SCAEF's Code of Ethics/ Red book, the internalization of its spirit by the EC members, and the possibility of the further detailing of its scope;*
- Necessary exercise in terms of logistics, Experts' hiring, and fund management for the conduction of a training on "Practical Use of the FIDIC Conditions of Contracts [Module 1] scheduled to be held during 3-4 April 2022*
- Necessary exercise for best investment of SCAEF's fund ensuring good return in future and its application for making SCAEF more infrastructurally self-sufficient;*
- Active seeking for the best candidate in the position of SCAEF's Chief Executive Officer (CEO) for ensuring its best managerial direction for future endeavors.*



Nonetheless, Meeting with **Public Procurement Monitoring Office (PPMO)** on 24<sup>th</sup> February 2022 led by SCAEF's president Er. Tuk Lal Adhikari to discuss the contemporary and contextual issues pertaining to public procurement of consulting works was the major highlight. The Participants on the meeting on behalf of SCAEF were:

Dr. Hare Ram Shrestha	SCAEF’s Past President
Er. Tuk Lal Adhikari	SCAEF’s President
Er. Thakur P Sharma	SCAEF’s Vice-President
Er. Prakash Adhikaree	SCAEF’s General Secretary
Er. Narayan Hari Rijal	SCAEF’s EC Member

The meeting was held in a very cordial environment where the issues were patiently heard by the PPMO and they assured their complete commitment for the necessary policies’ intervention to ensure the development of a healthy Consulting industry in Nepal.

**Thank You!**

**\*\*\*THE END\*\*\***



## NEWSLETTER

सोसाइटी अफ कन्सल्टिङ्ग आर्किटेक्चरल एण्ड इन्जिनियरिङ्ग फर्मस्  
**SOCIETY OF CONSULTING ARCHITECTURAL AND ENGINEERING FIRMS**  
**(SCAEF), NEPAL**  
(A National Body of Consulting Firms Recognized by Government of Nepal)

### Editorial



In continuation to its commitment to the primary tenets of Communication, Capacity-Building and promotion of Professional Ethics and Integrity in pertinence to the consulting industry of Nepal as elucidated during the Newsletter Issue #1, I am very pleased to announce the issuance of Newsletter #2 which provides a comprehensive description of the various events/milestones conducted/achieved by SCAEF's Executive Committee during the period. It is to be noted that the activities as completed during this particular time-frame are in strict consonance with SCAEF's overarching philosophy regarding the promotion of consulting industry in Nepal, and the various interlinked activities to facilitate the same. Therefore, it has covered a

broad range of activities; from the successful conduction of various training programs, inter-agency communication/coordination, timely discussion on the contemporary issues, righteous advocacy, recreational events etc. As the valued members of our fraternity, your constructive feedback on the current progress as well as your suggestions will be dearly appreciated.

**Dr. Sudeep Adhikari**

Coordinator, Publication and Communication Sub-Committee



## Message from the President



I have the pleasure to note the issuance of this SCAEF's Newsletter #2, which provides a comprehensive description of the various activities and events conducted by the SCAEF's Executive Committee during the reporting period from April to August 2022. I believe that the continuation of the Newsletter is important for dissemination of the SCAEFs initiatives in consonance with its objective of promotion of consulting industry in Nepal. I note that it has covered a broad range of activities; from the successful conduction of various training programs, inter-agency coordination, interactions on the contemporary issues, advocacy, recreational

events etc. The Publication Committee is committed to welcome your suggestions for the improvement of the future Newsletters. I feel that the content of the Newsletter very well represents the entire spectrum of SCAEF's activities during the period and can hence be circulated to member firms as well as public/ private entities, donor agencies and international networks through emails apart from posting in the SCAEF's website.

I look forward for the timely publication of future Newsletters. I wish to express my sincere thanks to the Publication Committee coordinated by Dr. Sudeep Adhikari.

**Er. Tuk Lal Adhikari**

President, SCAEF

## Public Discourses

In consonance to its commitment to the professional security of its member firms, SCAEF during this period reviewed various bid documents as floated by the public entities and provided its feedback and comments to the concerned authorities to help making the documents more transparent, consistent, and in consonance with the Public Procurement guidelines. The issues were identified during the regular Executive Meetings as well as collected from the concerns shared by the member firms. SCAEF highly encourages its member firms to actively participate in this process as the part of the institutional advocacy, and also as an effort in capacity building of all the concerned parties, that is, consulting firms, consulting professionals and the Client in the procurement process. The associate Table provided the necessary details:

Bid	Bid Type	Date	Client	Issues collated, and coordinated and conveyed by SCAEF	Response from the Public Entity
Selection of Consultants for Various Consulting Service Assignments	RFP	March 25, 2022	Ministry of Forest, Environment and Soil Conservation Lumbini Province	Bid Security for the consulting assignment and cost to obtain RFP document	Not responded
Detail Design, Survey and Preparation of DPR of the Development, Landscaping and Protection work At Tatopani ICD	EoI	March 03, 2022	Nepal Intermodal Transport Development Board	Length of general experience, JV modality and limitations, different aspects of specific and geographic experiences, financial capacity etc.	Addendum issued on March 16, 2022 with raised issues adequately addressed
Detailed Engineering Survey, Detailed Design and Drawing, Report Preparation (DPR) of Madheshi Sahid Marg	EoI	March 06, 2022	Ministry of Physical infrastructure Development, Janakpurdham, Janakpur, Dhanusa	Consortium modality, different aspects of specific and geographic experiences, Length of general experience etc.	Not responded
Preparation of Detail Project Report (DPR) for the establishment of Industrial Village in two locations in Lumbini Province	EoI	March 16, 2022	Industry Commerce & Consumer Welfare Directorate, Lumbini Pradesh	Consortium modality, different aspects of specific and geographic experiences, Length of general experience etc.	Not responded
-Study on Identification and Development of Hot Water Spring Sources in Nepal -To develop an optimization framework for the real-time optimum intake of water from diverse water sources in Kathmandu Valley -Analysis of Flood, drought and climate in Nepal	EoI	March 20, 2022	WECS	Consortium modality, different aspects of specific and geographic experiences, Length of general experience, Key experts etc.	Not responded
Project Management and Construction Supervision Consultant (PMCS) of Lumbini Provincial Hospital (LPH)	EoI	March 24, 2022	Provincial Infrastructure Development Authority, Dang Lumbini Pradesh	JV limitations, consortium modality, experience of key experts, general experience etc.	Not responded



Bid	Bid Type	Date	Client	Issues collated, and coordinated and conveyed by SCAEF	Response from the Public Entity
Preparation of Comprehensive Master Plan of Kathmandu Valley	EOI	April 21, 2022	Kathmandu Valley Development Authority	Consortium modality, experience of the firm, financial capacity of the firm, number of projects etc.	Addendum issued on April 22, 2022 with raised issues adequately addressed
Preparation of DPR with Seismic Vulnerability Assessment and Geotechnical Investigation for the Conservation of Pashupatinath Temple, Pashupati, Kathmandu	EOI	May 8, 2022	Department of Archaeology	Adequacy of the time-limit and associated sensitivity of conducting geotechnical investigations	Not responded
Babai Mankhola Diversion Multipurpose Project	RFP	May 8, 2022	Bheri Babai Diversion Multipurpose Project	General inconsistencies in the RFP document, discrepancy in specific experiences' criteria between EOI and RFP stage, qualification of the experts etc.	Addendum issued on May 23, 2022 with raised issues adequately addressed
Consulting Services for Complete Project Construction Supervision Works including Review and Finalization of Detailed Project Report and assistance in Project Construction Bidding	EOI	July 7, 2022	Betan Karnali Sanchayakarta Hydropower Co. Ltd.	General inconsistencies in the RFP document, Ad-hoc provision of certain magnitude of national M-M to NEA's subsidiary company, financial arrangement, number of JV partners etc.	Not responded
Consulting Services for Construction Supervision and Preparation of Detail Working Drawing of Data Center at Kohalpur, Banke and Data & Internet Exchange Center at Khumaltar, Lalitpur, EOI/SC/01/078/79	EOI	July 13, 2022	National Information Technology Center	Consortium modalities, Ad-hoc limitation on the specific experience of the lead vs associated firms, ad-hoc provision of sharing percentages between the JV partners etc.	Not responded
Consulting Services for a) Detailed Feasibility Study on Water Security Enhancement in Kathmandu Valley; and b) Preparation of Detail Project Report (DPR) of Kanke Deurali Water Impounding Reservoir at Gulmi District	EOI	July 27, 2022	Design, Research and Appropriate Technology Section Department of Water Supply & Sewerage Management,	Number of JV partners, upper limit of the academic qualification of the required experts, restrictive criteria pertaining to specific experience, necessity of supervision experience for a detailed design project etc.	Addendum issued on July 31, 2022. However, most of the raised issues were not addressed.

# Capacity Building

SCAEF is well-aware of the fact that while the procurement of the service is very important, as a knowledge based industry, an optimum delivery of the product is the most pivotal requirement. Deliverance of good design, estimate and project-management are not only our professional liabilities, but they also form a part of our institutional responsibility to optimize the tax-payers’ money and resources that has been invested for the development of infrastructures. This, needless to say, requires the capacity-building of our professionals to make them adapt the ever-changing ecology of knowledge, further accentuated by the ever-increasing trend of micro-specialization in recent times. SCAEF is very proud to have contributed on the part during the period, with the details of the trainings provided in the associated Table.

Name of the training	Associated Partners	Duration	Number of Participants				
			Consulting firms	Public Agencies	Construction Companies	Professional Societies	Total
<b>FIDIC Module 1: Practical Use of the FIDIC Conditions of Contracts</b>	CBDIC and FCAN	3-4 April 2022	7	15	5	-	27
<b>FIDIC Module 2: Management of Claims and Dispute Resolution</b>	CBDIC and FCAN	6-8 April 2022	11	12	4	-	27
<b>Slope Stabilization Design</b>	CBDIC and FCAN	3-6 May 2022	10	8	4	1	23
<b>Design and Construction of Road Tunnel</b>	CBDIC, FCAN and NTA	22-24 May 2022	22	10	1	2	35
<b>Design of RCC T-Girder Bridges and RCC Abutment on Open Foundations</b>	CBDIC, FCAN and LRBSU	5-9 June, 2022	21	16	5	-	42





## **Organizational Changes in Executive Committee**

Er. Prakash Adhikari, General Secretary of the current SCAEF Executive Committee tendered his resignation on 18<sup>th</sup> April, 2022 (EC Meeting #710) and it was duly accepted and approved by the executive committee as per Clause 31 (Kha) of SCAEF Constitution 2047. According to the Clause 31 (Ga) of SCAEF Constitution 2047, Er. Kamal Karki, then Joint Secretary was proposed to be promoted to the vacant position of General Secretary and conferred unanimous agreement during EC



Meeting #711. - In addition, Er. Narayan Hari Rijal, EC Member is proposed and selected unanimously to be promoted in the capacity of Joint Secretary (vacant due to Er. Kamal Karki selected for General Secretary) of 17<sup>th</sup> EC SCAEF Nepal. Similarly, EC nominated Er. Dipendra Kumar Jha, authorized representative of Pertinent Engineering Consultancy (P) Ltd. (M 190) in the post of vacant EC member (due to the promotion of Mr. Rijal to the position of Joint Secretary) as per SCAEF legislation during the EC meeting #713, and was welcomed on-board during the EC Meeting #714.

## **Major Discussions in the EC Meetings during the period**

- ☐ Consortium between Industry and Academia (MoU with Universal College)
- ☐ Significance of SCAEF in the context of heritage conservation; solidarity shown by not participating on the Pashupati EoI by the SCAEF members
- ☐ Consulting Services Development Act
- ☐ Preparation and management of appropriate trainings
- ☐ CEO Appointment
- ☐ SCAEF's Billing Rate
- ☐ Revamping of Executive Committee
- ☐ Residential Workshop regarding Ethics, Low bidding practices and SCAEF Billing Rate Application
- ☐ Meeting with professional bodies for cooperation and collaboration

## **Meeting with Prime-Minister (June 2, 2022)**

One of the major highlights of this period can arguably be considered as the meeting between SCAEF's Executive committee and his honorable Prime Minister Mr. Sher Bahadur Deuba and subsequent submission of memorandum which emphasized the prominent issues that need to be urgently discussed for the professional development and safeguard of the Nepalese consulting industry.



The meeting took place on Thursday, June 2, 2022 at PM's office/residence at Baluwatar. The issues that were included in the memorandum were:

- ☐ Utmost necessity of the issuance of **Consulting Service Development Act**;
- ☐ Necessary revisions on **Professional Liability Insurance** required for the implementation of procured consulting services;
- ☐ Issues pertaining to the Payment of **Value Added Tax (VAT)** to the concerned public authority;
- ☐ Necessary discussion and revision of the **clause 65 (ka) of Public Procurement Guidelines** after the **6<sup>th</sup> Amendment**;
- ☐ Utmost necessity of enforcing the **Billing Rates** as suggested by SCAEF to assure the professional safety of the consulting professionals;
- ☐ Arrangement of **Mobilization Amount** for the implementation of procured consulting services;
- ☐ Duration of **Specific Experience** of the consulting firm during the submission of bid for public procurement;
- ☐ Role and significance of national consulting firm in **international public calls**;
- ☐ Facilitation of national consulting firms providing their **services outside the country**;
- ☐ **Miscellaneous issues** pertinent to the public procurement of consulting services;

## Meeting with ADB

A meeting was conducted between SCAEF's 17<sup>th</sup> Executive Committee (accompanied by honorable past presidents) and The Asian Development Bank on Tuesday, 21 June, 2022 at NRM. During the meeting SCAEF briefed ADB about its approach to capacity-building and institutionalization of Nepalese consulting industry, incorporation of tenets pertaining to GESI/Social Safeguard/Project Management, application of Consultant Performance Monitoring and Evaluation System (PEMS), retention of key national experts and the implications from PPMO's

guidelines thereof, and other miscellaneous contemporary issues. The session proposals further included the conduction of a 1 day workshop pertaining to Professional Liability Insurance (PLI) to be organized by The World Bank in August 2022, formation of Dispute Avoidance and Adjudication Board by a FIDIC Expert in August 2022 and a session pertaining to ADB's Anti-corruption Policies and stances for the SCAEF.

SCAEF is very thankful to The ADB for apportioning their time for discussing the above-mentioned issues which undoubtedly will play a pivotal role for the deeper understanding of the complex procurement process through rigorous public discourses.



## MoU with LRBSU

A Memorandum of Understanding was signed between SCAEF and Local Roads Bridge Support Unit (LRBSU) of Motorable Local Roads Bridge Programme Phase-IV of GoN in collaboration with Swiss Agency for Development and Cooperation on Wednesday, 8 June 2022. It was mutually agreed that the LRBSU will prepare and organize the training modules pertaining to bridge design and its construction supervision, with SCAEF primary role in the process being the management and logistic support for the implementation of such programs. *Design of RCC T-Girder Bridges and RCC Abutment on Open Foundations*, a training that was conducted during this period.



## Futsal Tournament 2079 BS

A Futsal Tournament was organized by SCAEF Nepal on 14-15 Jestha 2079 (28th and 29th May). The primary motive behind such recreational event was to bring together the Client, Consultant and Contractor and, thereby enhancing the mutual relation, as such it can assist in promoting prospective business among the stakeholders. The tournament was held at Samakhushi Futsal, Samakhushi, Kathmandu, Nepal and fourteen teams participated in the tournament. SCAEF President, Mr. Tuk Lal Adhikari inaugurated the tournament. The Futsal Tournament was held as League game with four groups and was conducted with assistance from FIFA registered referee.

### **Participant Team:**

<i>"create acme associates" [ACME Group Co.]</i>	<i>NKA Engineering Consultant Pvt Ltd</i>
<i>Nepal Engineers Association (NEA)</i>	<i>Total Management Services (TMS) Pvt Ltd</i>
<i>Department of Roads (DOR)</i>	<i>GEOCE Pvt Ltd</i>
<i>DRMS Pvt Ltd</i>	<i>SITARA Consult Pvt Ltd</i>
<i>ERMC Pvt Ltd</i>	<i>CMS Engineering Consult Pvt Ltd</i>
<i>ITECO Nepal Pvt Ltd</i>	<i>HOMELAND-GEOCOM Pvt Ltd JV</i>
<i>Viswa Consult Pvt Ltd</i>	<i>SCAEF Team</i>

The Final game was played between ERMC Pvt. Ltd and Homeland GEOCOM JV. Homeland GEOCOM JV won the final match. SCAEF President, Er. Tuk Lal Adhikari addressed the closing program and winners of the program were given trophies and medals.





Opening Program



Closing Program

## Appointment of CEO

A call for the able candidates to work in the capacity of Chief Executive Officer (CEO) of SCAEF was made on a national daily and SCAEF's website, and the CVs has been collected. The CVs are currently under evaluation and the development will be published in public domain soon. The evaluation criteria was designed to make the selection objective, transparent and pertinent. SCAEF ardently believes that appointment of a CEO will help SCAEF to model itself in a more corporate framework, thus accentuating its visibility, professionalism and opportunities.

### VACANCY

SCAEF Nepal, Sankhamul, Kathmandu invites application from highly energetic, qualified and result oriented candidates for the position of **Chief Executive Officer (CEO)** to be stationed at Secretariat office Kathmandu.

**Qualification:** Minimum Bachelor's Degree in Architecture/Engineering / Business Administration/Management

**Experience:** Minimum 3 years' experience in GoN, NGO/Private organization in a managerial position. Experience in community services will be preferred.

The candidates must have good experience in office management and development of business plan, further substantiated by good computer skills. S/he must have good verbal and written communication skill; English and Nepali. Likewise, s/he must have valid driving license. Interested candidates are requested to send their resume in prescribed format (to be downloaded from the SCAEF's official website [www.scaef.org.np](http://www.scaef.org.np)) along with the application letter, copy of qualification, experience certificates and scan of recent PP size photograph at [info@scaef.org.np](mailto:info@scaef.org.np) by 5 PM (NPT), 5 April 2022.



**सोसाइटी अफ कन्सल्टीङ्ग आर्किटेक्चरल एण्ड इन्जिनियरिङ्ग फर्मस्**  
**SOCIETY OF CONSULTING ARCHITECTURAL AND ENGINEERING FIRMS, NEPAL (SCAEF)**  
 (A National Body of Consulting Firms Recognized by Government of Nepal)

## SCAEF's Billing Rate

During the EC Meetings, enforcement of SCAEF's Billing Rate has been considered as the prominent issue in order to ensure the professional safeguard of consulting professionals. The following public entities were formally communicated requesting for the same:

Different units and wings of Department of Road	<b>Ministry of Physical Infrastructure and Transport</b>
Department of Transport Management	
Different units and wings of Department of Water Supply and Sanitation	
Different units and wings of Department of Urban Development and Building Construction	<b>Ministry of Urban Development</b>
Different units and wings of Department of Water-Resources and Irrigation	<b>Ministry of Energy, Water-Resources and Irrigation</b>
Water Resources Research and Development Center	
Alternative Energy Promotion Center (AEPC)	

## **Visit to FIDIC Headquarter, Geneva**

Honorable past-president and the founder member of SCAEF, Ar. Rajesh Thapa visited FIDIC Headquarter (Geneva) on behalf of SCAEF on Thursday, 23rd June 2022. The main agenda of the meeting were:

- ❑ Issues pertaining to connection with the FIDIC accredited Trainer; who could be cost effective to us. Each year SCAEF has been conducting training programs for the Client (Government), Contractor and Consultants, and mostly limited to Module 1, because of the Trainer's limitations.
- ❑ Arrangement of FIDIC certified training certificates for the participants. SCAEF is only providing their own participant certificates signed by the accredited FIDIC Trainer and the President of SCAEF.
- ❑ Arrangement of the subsidized FIDIC suites for the use by SCAEF Library for member firms. These would be helpful in educating our member firms.
- ❑ Arrangement to get the FIDIC publications in subsidized rates for SCAEF Library. Again, this will be expected to provide good reference material for our members.

Following the visit to the FIDIC HQ and the subsequent meeting thereof, a great initiation was further facilitated to sign a MOU between FIDIC and SCAEF, which will be further instrumental to conduct face- to face training courses related to FIDIC Contracts in Nepal, with a trainer certified by FIDIC. SCAEF is of the opinion that this promoting trainers within our region, given that there are very few FIDIC certified trainers available in the international market especially in our region. Also, an Infrastructure Conference at Geneva this 11-13 November 2022. The details have been circulated with this newsletter for your interest to participate in this Conference.



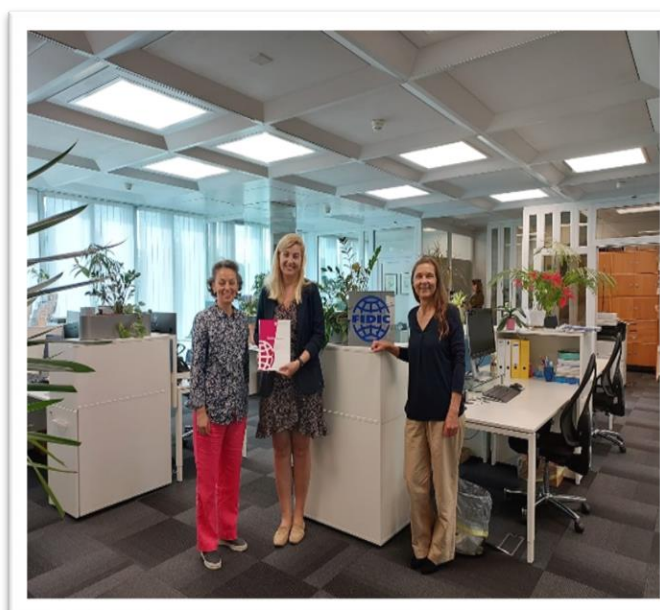
**Handing over the Short Form of Contract**



**With Dr. Nelson, Dr. Silvia and Ms. Ieva**



**With Mr. Italo Goyzeta**



**Dr. Silvia, Ms. Ieva and Ms. Ulrike**

## **Interaction among EC and Sub-Committees followed by Workshop on Work Life Balance**

A one-day interaction between the EC and Sub-committees was conducted on August 05, 2022 at Royal Villa Resort, Dadagaun, Kathmandu. The primary objective of the program was to revitalize the sub-committees in terms of targeted milestones and as set during the current tenure, and to establish the culture of interaction, feedback and public discourses so as to align the overarching objective of the SCAEF in terms of strengthening the consulting industry of Nepal. The program included comprehensive discourses on various activities to be completed by the SCAEF, presentations from the coordinator from each sub-committee to finally come up with the detailed work-plans from each to facilitate the preparation of detailed time-bound schedules.



The second half of the program included a workshop on Work-Life Balance conducted by Mr. Siddha Raj Pant, founder of a body named Mallikajun Vidhyashram & Infra Partners Pvt. Ltd. which stresses on the incorporation of perennial Hindu philosophy and values to achieve a dynamic balance between professional and personal life.



## Interaction between SCAEF and Architectural Firms

An interaction between SCAEF and Architectural firms was conducted on August 28, 2022 at Alice Restaurant, Pulchowk, Lalitpur. As the name itself suggests, it is to be kindly noted that primary objective of the SCAEF is to facilitate and to provide right advocacy for the strengthening and for securing the professional security of the overall consulting industry in Nepal, not focusing particularly in one specific domain. Despite being a multi-disciplinary industry, SCAEF is very much aware that SCAEF is required to voice and address the concern of all types of national consulting firms, whether they are civil-engineering, architecture, electrical or mechanical focused; and whether they work with the public entities or private parties. SCAEF is very much thankful to the architectural firms which were present and provided their invaluable insights, comments and feedback. The meetings concluded with the following major commitments:

- ❑ *Drafting of a standard Contract Agreement documents to be used by the consulting firms with the private parties;*
- ❑ *Right advocacy for the inclusion of architectural inputs in major civil-infrastructural consulting assignments floated by public entities; and*
- ❑ *Identification and conduction of right training modules for the capacity-building of the architectural professionals.*



**Thank you !**



## NEWSLETTER

सोसाइटी अफ कन्सल्टिङ्ग आर्किटेक्चरल एण्ड इन्जिनियरिङ्ग फर्मस्  
**SOCIETY OF CONSULTING ARCHITECTURAL AND ENGINEERING FIRMS**  
**(SCAEF), NEPAL**  
(A National Body of Consulting Firms Recognized by Government of Nepal)

### Editorial



In continuation to its commitment to the primary tenets of Communication, Capacity-Building and promotion of Professional Ethics and Integrity in pertinence to the consulting industry of Nepal as elucidated during the Newsletter Issue #1 and #2, I am very pleased to announce the issuance of Newsletter #3 which provides a comprehensive description of the various events/milestones conducted/achieved by SCAEF's Executive Committee during the period. It is to be noted that the activities as completed during this particular time-frame are in strict consonance with SCAEF's overarching philosophy regarding the promotion of consulting industry in Nepal, and the various interlinked activities to facilitate the same. Therefore, it has covered a

broad range of activities: from the successful conduction of various workshops, inter-agency communication/coordination, timely discussion on the contemporary issues, righteous advocacy etc. As the valued members of our fraternity, your constructive feedback on the current progress as well as your suggestions for future newsletters will be dearly appreciated.

Thank you.

**Dr. Sudeep Adhikari**

On behalf of Publication Sub-Committee



## Presidents' Message



I have the pleasure to note the issuance of this SCAEF's Newsletter #3, which provides a comprehensive description of the various activities and events conducted by the SCAEF's Executive Committee during the reporting period from September to the middle of November 2022. I believe that the continuation of the Newsletter is important for dissemination of the SCAEF's initiatives in consonance with its objective of promotion of consulting industry in Nepal. I note that it has covered a broad range of activities; inter-agency coordination, interactions on the contemporary issues, advocacy, recreational events etc.

The Publication Sub-Committee is committed to welcome your suggestions for the improvement of the future Newsletters. I feel that the content of the Newsletter very well represents the entire spectrum of SCAEF's activities during the period and can hence be circulated to member firms as well as public/private entities, development partners and international networks through emails apart from posting in the SCAEF's website.

I look forward for the timely publication of future Newsletters. I wish to express my sincere thanks to the Publication Sub-Committee coordinated by Dr. Sudeep Adhikari.

**Er. Tuk Lal Adhikari**  
President, SCAEF Nepal

## Public Discourses

In consonance to its commitment to the professional welfare of its member firms, SCAEF during this period reviewed various bid documents as floated by the public entities and provided its feedback and comments to the concerned authorities to help making the documents more transparent, consistent, and in consonance with the Public Procurement guidelines. The issues were identified during the regular EC Meetings as well as collected from the concerns shared by the member firms. SCAEF highly encourages its member firms to actively participate in this process as the part of the institutional advocacy and also as an effort in capacity building of all the concerned parties, that is, consulting firms, consulting professionals and the Public Entities in the procurement process. The associate Table is provided the necessary details:

Bid	Bid Type	Date	Client	Issues collated, and coordinated and conveyed by SCAEF	Response from the Public Entity
<p>(a) Consulting Services for Project Support Team at Department of Water Supply and Sewerage Management (DWSSM) and NWAASH Support; Reference No.: NP-DWSSM-290179-CS-QCBS</p> <p>(b) Consulting Services for Urban Water Supply, Technical Design Supervision and Governance Support in Birendranagar Municipality in Surkhet and Dipayal- Silgadhi Municipality in Doti, with one team in each municipality; Reference No.: NP-DWSSM-290178-CS-QCBS; and</p> <p>(c) Consulting Services for Technical and Governance Support to Sharada municipality and Janaki, Joshipur and Bardagoriya rural municipalities with one independent team for each municipality; Reference No.: NP-DWSSM-290176-CS-QCBS</p>	EoI	August 31, 2022	Department of Water Supply and Sewerage Management	Specific experience of the consulting firms, Joint-venture modality, experience of the proposed experts, logistic support etc.	Timely responded by the public entity with the raised issues adequately addressed.

Bid	Bid Type	Date	Client	Issues collated, and coordinated and conveyed by SCAEF	Response from the Public Entity
<b>Preparation of Detail Project Report (DPR) of Medical College to be established by Surkhet Medical College Infrastructure Construction Development Project (SMCICDP); EOI/SMCICDP/CS/QCBS /079/080-01</b>	EoI	August 31, 2022	Surkhet Medical College Infrastructure Construction Development Project, Karnali Province	Objective of the proposed assignment, ambiguity in the scope of the work, proposed experts and their qualification, deliverables etc.	Timely responded by the public entity with the raised issues adequately addressed.
(a) Feasibility Study of Different Wastewater Management Projects-1;  (b) Feasibility Study of Different Wastewater Management Projects-3; and  (a) Feasibility Study of Different Wastewater Management Projects-1	EoI	August 31, 2022	Department of Water Supply & Sewerage Management	Experience of the proposed experts, payment modality, evaluation criteria etc.	Timely responded by the public entity with the raised issues adequately addressed.
<b>Project Implementation and Support Consultant (PISC) for RCIP-AF (Package No: DOLI/RCIP-AF/PISC-01/079/80*</b>	EoI	November 4, 2022	Rural Connectivity Improvement Project	Ambiguity regarding the nature of the call (national or international), Qualification of key-experts, Domestic preference etc.	Waiting on the response.
<b>Detail Design of Storm Water and Sewerage Management, Landscaping, Sloe Protection, Furniture and Interior Design, HVAC</b>	RFP	November 4, 2022	National Defense University Infrastructure Development Committee	Difference in the criteria under EoI and RFP stage pertaining to Specific experience of the firm.	Timely responded by the public entity with the raised issues adequately addressed.

Alongwith the formal letter regarding the bid, SCAEF's Executive Committee attended a meeting with the team of RCIP on November 6th , 2022 and conveyed their deep concerns about the issues as elucidated in the formal letter. RCIP assured that the issues will be appropriately addressed in due time and with due process. It has come to SCAEF's knowledge that the ADB NRM is in agreement with some of the points as raised by the SCAEF, thus indicative of the fact that SCAEF's continuous effort on public discourses and advocacy is certainly leaving a positive mark on the way procurement are currently being carried out by the public entities.

## Capacity Building

SCAEF is well-aware of the fact that while the procurement of the service is very important, as a knowledge based industry, an optimum delivery of the product is the most pivotal requirement. Deliverance of good design, estimate and project-management are not only our professional liabilities, but they also form a part of our institutional responsibility to optimize the tax-payers' money and resources that has been invested for the development of infrastructures. This, needless to say, requires the capacity-building of our professionals to make them adapt the ever-changing ecology of knowledge, further accentuated by the ever-increasing trend of micro-specialization in recent times. With the knowledge and skills garnered by SCAEF with the successful conduction of various trainings in past, the following programs have been identified during the period, and also been scheduled to be conducted soon.

Program	Target Groups	Executive Role
<b>Contract Management, Quality Mgmt., Time &amp; Control and Dispute Resolution, Arbitration, Taxation, Insurance, Lab Technician Training</b>	Construction professionals & professionals involved in construction business, Er./Sub-Er. at local level	FCAN & SCAEF
<b>Electronic Government Procurement (e-GP) Advance System with ToT Training</b>	Construction business and Technicians involved in construction business, engineers/sub-engineers working with advance system at local level	FCAN & SCAEF
<b>FIDIC Training for Consultant and Contractor Engineers</b>	Construction professionals, technicians and legal manpower	SCAEF
<b>Training on Design and Construction Multilane Roads and Highways, Express ways, Tunnel, Underpass and Flyovers</b>	Government of Nepal, SCAEF members	SCAEF
<b>Training on Detailed Design and Construction of Motorable Bridge</b>	Government of Nepal employees, SCAEF members	SCAEF
<b>Training on Design of Green Buildings</b>	Engineers, Architects from public entities and SCAEF Members	SCAEF
<b>Leadership development, Secretariat Capacity Enhancement &amp; HR Training</b>	Implementation committee, FCAN & SCAEF employees	FCAN & SCAEF
<b>Training on BIM and Primavera, Microsoft Office Package</b>	Government of Nepal employees, SCAEF members	SCAEF
<b>Participation on FIDIC, ASPAC and other conference</b>	Council, Committee members, FCAN and SCAEF Members	CBPS, SCAEF
<b>Preparation of FIDIC International Conference in Nepal</b>	Council, Committee members, FCAN and SCAEF Members	CBPS, SCAEF

## **Congratulations and Best Wishes to Mr. Tuk Lal Adhikari for being appointed as a Board Member of FIDIC Asia Pacific**

With Mr. Y J Lee (South Korea) completing his 3-years tenure as the board member of FIDIC Asia Pacific, the FAP GAM 2022 appointed Mr. Tuk Lal Adhikari, the current president of SCAEF for the vacant position. Mr. Adhikari has joined the board from October 01, 2022. SCAEF ardently believes that this event highlights the international recognition of Nepalese consulting industry and is very humbled by the appointment. SCAEF EC has congratulated to Mr. Adhikari with best wishes for his successful tenure.



## **Major Discussions during the EC Meetings**

- ☐ Consortium between Industry and Academia
- ☐ Consulting Services Development Act
- ☐ Preparation and management of appropriate trainings
- ☐ CEO Appointment
- ☐ SCAEF's Billing Rate
- ☐ Residential Workshop regarding Ethics, Low bidding practices and SCAEF Billing Rate Application
- ☐ Meeting with professional bodies for cooperation and collaboration
- ☐ Amendment of by-laws of SCAEF
- ☐ Conduction of Financial Audit for the Fiscal Year 2078/079

## **Meeting with Mr. Ramakant Duwadi, Director General of DWSSM**

A meeting was conducted between the SCAEF's Executive Committee and Mr. Ramakant Duwadi, Director General of DWSSM at Department of Water Supply and Sewerage Management on 7th September 2022 at Panipokhari, Kathmandu. The EC conveyed their greetings for his appointment and wished him the best for his tenure. The primary issues discussed during the events were:



- ❑ SCAEF's billing rate and the dire necessity of its incorporation during projects' preparation for the professional safeguard of the consulting professionals;
- ❑ Utmost requirement of joint effort between SCAEF and DWSSM for the capacity building of the experts (client as well and the consultants) working in water supply and sanitation sector;
- ❑ Wide discrepancy on the consulting cost for the assignments of same nature when categorized as national or international calls.

Mr. Duwadi listened to all the raised issues and assured SCAEF that DWSSM is fully committed for their resolution in due time with due process.

## Residential Workshop

One of the major highlights of this period can arguably be considered as the one and a half-day residential workshop conducted by SCAEF on 17th and 18th September 2022 at Dhulikhel Lodge Resort, Dhulikhel. 40 representatives from the 32 member firms participated in the program. The program kicked-off with the welcome speech, followed by the overview of the proposed workshop by Mr. Thakur Prasad Sharma, Vice-President of current SCAEF's EC. During the first day, the participants were sub-divided into 8 groups which were encouraged to go through the current draft of Consulting Sector Development Act and to provide their constructive feedback on the proposed provisions, necessary addendums and amendments. The primary issues endorsed by the participants were:

- ❑ Sectoral Classification of the Consulting Firms
- ❑ Promotion of Joint Venture between the SCAEF member firms
- ❑ Righteous lobbying with the public entities for the promotion of SCAEF member firms
- ❑ Prioritization of SCAEF member firms in international bidding
- ❑ Requirement of advance mobilization
- ❑ Broader definition of consulting business

The discussion was further facilitated by the comprehensive commentary on the draft Dr. Hare Ram Shrestha, and the associated details to be added/amended. The closing session was followed by a dinner arrangement. The second day of the workshop revolved around the issues pertaining to low-bidding, SCAEF's billing rate, possible modality of merging consulting firms, significance of professional liability insurance etc. Mr. Tuk Lal Adhikari, current president of SCAEF emphasized that the incorporation of mathematical/quantitative cut-off during the evaluation of the bids is the only appropriate way to mitigate low-bidding practices. The whole program was convened in a very cordial environment, and helped a great deal to facilitate the coordination and fraternity between the practicing members. The details of the event was also covered by a national daily (online), Lokantar.com (URL: <https://www.lokaantar.com/story/197356/2022/9/19/economy/insurance>).





## MOU Between SCAEF and Department of Water Supply & Sewerage Management

During the meeting with Mr. Ramakant Duwadi, Director General of DWSSM, it was agreed that a formal signing of a Memorandum of Understanding between SCAEF and DWSSM would be worthwhile to institutionalize the professional relation between SCAEF and DWSSM for further works on capacity-building, mutual efforts and public discourses to bring in more clarity, transparency and understanding of the public procurements. The MoU was signed on November 11, 2022 by Mr. Rumakant Duwadi, DG of DWSSM and Mr. Tuklal Adhikari, SCAEF's President at Department of Water Supply and Sewerage Management at Panipokhari in the presence of Mr. Narayanhari Rijal, Joint Secretary and Mr. Kamal Karki, Secretary (SCAEF) and other senior officials of DWSSM.



## Participation on Nepal Infrastructure Summit 2022

Nepal Infrastructure summit was organized by the confederation of Nepalese Industries (CNI) on 8 and 9 September, 2022 at the Soaltee Crown Plaza, Kathmandu. As informed by the CNI, the primary objective of the summit was to bring in various stakeholders associated with infrastructure development of the country, and to provide a platform for public discourses, and other associated activities on the backdrop of economic crisis as rendered by the global Covid-19 pandemic. SCAEF being one of the major stakeholders, participated in the program to depict their relevance with the spirit of summit. SCAEF is very thankful to CNI for allowing it to participate in the program and to enable itself to view the overall scale of the problem, challenges and way-out in a wider spectrum as provided by the Summit.



## Inter-agency/ Professional Bodies Communication



General Secretary Er. Kamal Karki representing SCAEF Nepal in a Silver Jubilee function of Madhyapur Engineering Samaj, MES.



SCAEF and Society of Nepalese Architects (SONA)-SCAEF VP Mr. Thakur P Sharma delivered and interacted on "Procurement and Consulting Business"





Joint Secretary Er. Narayan Hari Rijal attending an Inception workshop of Building Energy Efficiency in Nepal (BEEN)



President Er. Tuk Lal Adhikari representing SCAEF on "Technical Seminar on Design, Condition Assessment and Codal Provision" conducted by SEAN (Structural Engineers' Association Nepal)



General Secretary Er. Kamal Karki participating and contributing to a discussion for incentive mechanism for use of Nepal National Building Code (NBC)

## Last but not the Least!

Members of Team Junkiri from Kathmandu University visited the SCAEF's team during the 1 and a half day residential Workshop at Dhulikhel, and briefed about the Shell Eco Marathon which was scheduled to be conducted at Indonesia. During these really interesting times where public entities are asking for candidates with PhDs and 15 years of professional experience (of course not impossible if we inhabit two parallel universes), it was a nice breather to know about this novel endeavor of young tinkerers who are yet to be engineers, but committed to practical learning through innovation, novelty and feedback. SCAEF was pleased to know that it has been to some help (financially and morally) to get into the competition.



Team Junkiri (source: Team Junkiri official Facebook Page)



Thank you !



## Additional Activities till date

### Conduction of National Conference

A national conference titled “Disaster Resilient and Sustainable Infrastructure for Better Tomorrow” was conducted by SCAEF, Nepal on December 01, 2022 at Shankar Hotel, Kathmandu. In the context of ever-increasing events of natural disasters in the local and global scale, further exacerbated by anthropogenic/non-anthropogenic climate changes, SCAEF, as the forum of the knowledge-based industry, found it very imperative to have a public discourse and dialogue on the topic with its institutional, technical and psychological ramifications. The conference consisted of eight presentations on the related topics by the prominent experts, further facilitated by a panel discussion and question and answer session. The proceedings of the conference are available at <https://scaef.org.np/wp-content/uploads/2023/03/Proceeding-of-National-Conference-Updated.pdf>. Proceedings of the conference is also provided in the annex.



### Annual General Body Meeting

The Annual General Body Meeting of SCAEF was conducted on January 13, 2023. While the event was a ceremonial procession with the presentation on completed works by SCAEF, financial status and the further proceedings, SCAEF believes on using this event for rigorous discussion with their member firms. The Executive committee duly addressed the various concerns raised by member firms’ representatives and tendered their commitment to the ethos of SCAEF; which is primarily the capacity building, commitment to professional ethics and integrity and communication.



### Career Counselling Program

A career-counselling program to the final year civil and architecture students of Himalaya College of Engineering was conducted by SCAEF on 24<sup>th</sup> January 2023, in association with Building Energy Efficiency in Nepal (BEEN) Project. The program was a part of the over-arching philosophy of SCAEF pertaining to capacity building of the consulting business in Nepal, which can only be achieved by the appropriate industrial intervention on academics and vice versa.



**Career Counselling to the Final Year Civil and Architecture Students of Himalaya College Of Engineering**  
&  
**A Talk Program on Design Approach of Energy Efficient Building**  
Himalaya College of Engineering, Chyasal, Lalitpur  
24<sup>th</sup> January 2023

**Organized By:**  
Society of Consulting Architectural & Engineering Firms (SCAEF), Nepal  
**In association with**  
Building Energy Efficiency in Nepal (BEEN) Project

## Training on Building Information Modelling (BIM)

In the present context of increasing trend of digitization facilitated by Artificial Intelligence and similar paradigms, SCAEF, in consonance with its over-arching philosophy of capacity-building of its member firms, organized a training titled “Basics of Building Information Modelling (BIM) for Architects” (25-27<sup>th</sup> January, 2023) at Kathmandu.



## Training on Primavera

In the present context of increasing complexification of infrastructural projects rendered by the assimilation of multi-disciplinary approaches, SCAEF in consonance with its over-arching philosophy of capacity building of its member firms, organized a training titled “Training on Oracle’s Primavera P6 Professionals (8<sup>th</sup> to 10<sup>th</sup> February, 2023) at Kathmandu.



## Meeting with Ministry of Finance

In consonance to its commitment to righteous advocacy for the betterment of consulting industry in Nepal, SCAEF’s Executive Committee tendered their concerns in pertinence to various fiscal bottlenecks the consulting firms are facing. While the primary concern was the budget-cut and budget-stall on the procurement of consulting sector which, needless to say, are affecting a significant amount of knowledge-based industry/experts, the meeting covered a broad spectrum of fiscal issues (VAT Remission, SCAEF’s Billing Rate, appropriate weightages to financial and technical score to ensure quality of the procurement, grave danger being posed by direct procurement of services upto NPR 2 million etc).



## Capacity Building of the Consulting Industry in Provincial Levels

With the federal structuring of the governance as per the novel constitutional amendments, Nepal has ushered herself into the new era of decentralization, and institutional strengthening of the provincial and local governing bodies. In consonance with the newer institutional arrangement, SCAEF has felt the urgent need to reach out to its provincial members and their capacity building thereof. To achieve the purpose, SCAEF conducted trainings at provincial levels on “Bridge Design for the Beginners (Design of RCC T-Girder Bridges and RCC Abutement on Open Foundation)” for the consultants/experts of the area which undoubtedly will be of immense importance for their technical and managerial capacity building. The details are provided hereunder:

Province	City	Duration	Participants		
			DoR/MOPIT	Member Firms	Others
Koshi (1)	Itahari	Feb 23-27, 2023	19	5	10
Gandaki (4)	Pokhara	March 15-20, 2023	24	4	17
Gandaki (4)	Pokhara	March 29-April 3, 2023	19	3	23



## Annex: Proceedings of National Conference 2022

## Background

A national conference titled “Disaster Resilient and Sustainable Infrastructure for Better Tomorrow” was conducted by SCAEF, Nepal on December 01, 2022 at Shankar Hotel, Kathmandu. In the context of ever-increasing events of natural disasters in the local and global scale, further exacerbated by anthropogenic/non-anthropogenic climate changes, SCAEF, as the forum of the knowledge-based industry, found it very imperative to have a public discourse and dialogue on the topic with its institutional, technical and psychological ramifications. The conference consisted of eight presentations on the related topics by the prominent experts, further facilitated by a panel discussion and question and answer session.



The opening remark was delivered by Mr. Narayan Hari Rijal, Joint Secretary of SCAEF with a brief background on resilience and sustainability of structures in the context of climate change, followed by the welcome speech by Mr. Kamal Karki, GS of SCAEF. Mr. Karki elaborated a bit on the ethos of consulting industry in Nepal and the necessity to expand its wings to international arena, in the particular context of disaster, which is, needless to say, a trans-national subject nowadays.

S.N	Title of the Presentation	Expert	Association
1	Disaster Resilience in the Verge of Disaster and Climate Change in the Nepal Himalaya	Dr. Basanta Adhikari	Tribhuvan University
2	National-scale landslide susceptibility map of Nepal in a geospatial artificial intelligence (geoAI) framework	Dr. Ananta MS Pradhan	Water Resources Research and Development Centre, MoEWRI*
3	Avenues of Innovation for Multi-hazard Resilience and Sustainability in the Sector of WASH Infrastructures in Nepal	Dr. Shankar Dhakal and Dr. Surat Bam	DWSSM* & ADB*
4	Climate Resilient Infrastructure and Adaptation	Dr. Laxman Sharma	Asian Disaster Preparedness Center
5	Moving towards resilience of the transport infrastructure	Dr. Chandra Bahadur Shrestha	ICE-UK
6	Urban Resilience and Sustainable Development	Ar. Surya Bhakta Sangache	NSET
7	Disaster Resilience in Hydropower Projects	Dr. Sanjeev Shah	Shah Consult International (P.) Ltd.
8	Minimizing Anthropogenic Negligence in Triggering Disasters using Policy Instruments	Dr. Tara Nidhi Bhattarai	Department of Geology, Tribhuvan University

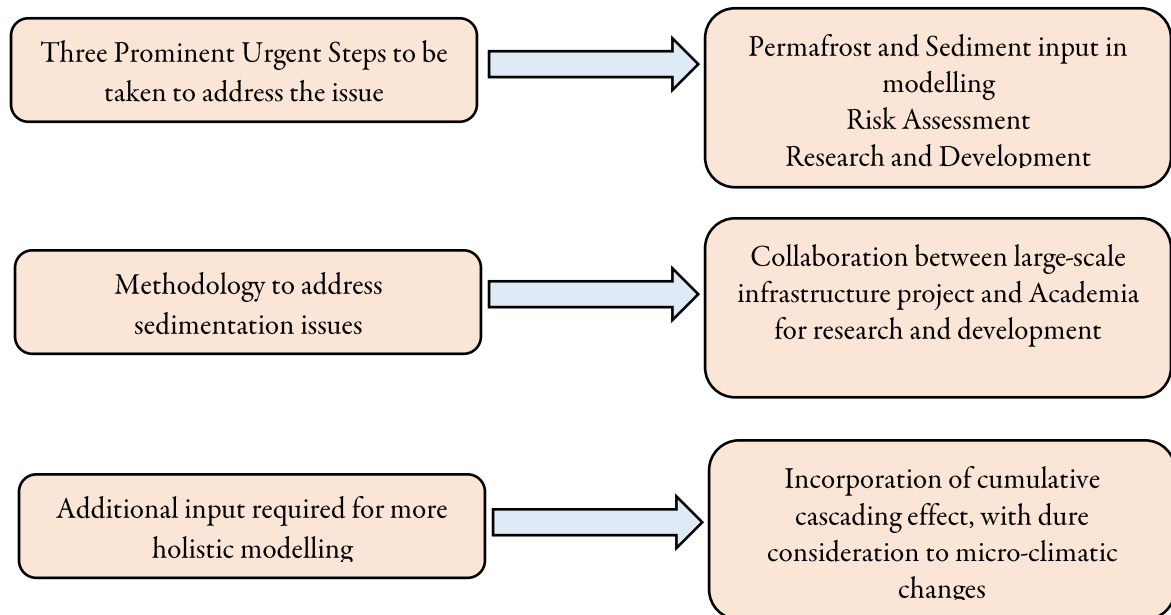
\*MoEWRI-Ministry of Energy, Water Resources and Irrigation, \*DWSSM- Department of Water Supply & Sewerage Management, \*ADB-Asian Development Bank, \*ICE-UK-, NSET- National Society for Earthquake Technology

## Disaster Resilience in the Verge of Disaster and Climate Change in the Nepal Himalaya



The primary theme of the presentation is how climate change is affecting the resilience of existing infrastructures in the country, further exacerbated by its non-linear coupling with other hazard such as seismicity in the case of Nepal. The presentation narrates the anecdotal evidences from the infrastructure projects in country, for instance, Melamchi Water Supply Project which provides a glaring example of how hazards of difference nature can affect the long-term resilience and sustainability of the infrastructures, thus calling for the urgency on the development of impact based multi-hazard forecast system.

The presentation was followed by an interactive question-answer session, which is summarized below:



## National-scale landslide susceptibility map of Nepal in a geospatial artificial intelligence (geoAI) framework

aaaa



National Conference on "Disaster Resilient and Sustainable Infrastructure for Better Future"

### National-scale landslide susceptibility map of Nepal in a geospatial artificial intelligence (geoAI) framework

**Ananta MS Pradhan (Ph.D.)**

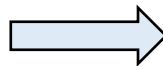
SD Engineering Geologist  
Water Resources Research and Development Centre  
Ministry of Energy, Water Resources and Irrigation



The presentation succinctly outlines how the institutional response from public entity against landslides is very poor, thus requiring a novel approaches that are required for the corresponding sensitization. While landslide mapping and zonation are the preliminary steps to achieve the objective, the author proposed application of burgeoning science of Artificial Intelligence, named as geoAI framework which could be instrumental for the quantization of landslide vulnerability. The basic tenet of geoAI framework rests on the observation that physical vulnerabilities are easier to quantify, and are therefore, more amenable to empirical verification.

The presentation was followed by an interactive question-answer session, which is summarized below:

Possibility of using satellite imageries to study local geology and formation below the surface



Satellite imageries cannot give information on the sub-surface geology

Possibility of procuring maps using the geoAI framework from the public entities



Maps will be uploaded in the website of WRRDC and can be obtained for free

## Avenues of Innovation for Multi-hazard Resilience and Sustainability in the Sector of WASH Infrastructures in Nepal

aaaa



The presentation very vividly calls for the development of infrastructures which planning and design is governed by more integrated, holistic and futuristic approach. In the present context, it is very worthwhile to realize that the civil infrastructures can no longer be regarded as isolated developments, and must be viewed in the broader context consisting of overlapping layers of socio-economy, environment, geology, seismology etc of the region, thus calling for following approaches:

**Holism:** One of the tenets of system-thinking which is synonymous with holistic approach is the appreciation of the fact that “A whole is more than the sum of its parts”. Civil infrastructures are no longer the isolated events and they have to be viewed to have multiple and unforeseeable impact on the different layers of the community.

**Integration:** For the development of resilient infrastructures, it is pivotal that they are liable to serve a broader spectrum of applicability. This will assist in ensuring that the developed infrastructures can operate in different spatial and temporal scales, thus ensuring their resilience and sustainability.

**Futurism:** This call for the incorporation of ever-evolving design philosophies, state-of-the-art research and state-of-the-art technology during optimization, planning and design phases such that the proposed infrastructures can be remodeled and contextualized with time.

The presentation was followed by an interactive question-answer session, which is summarized below:

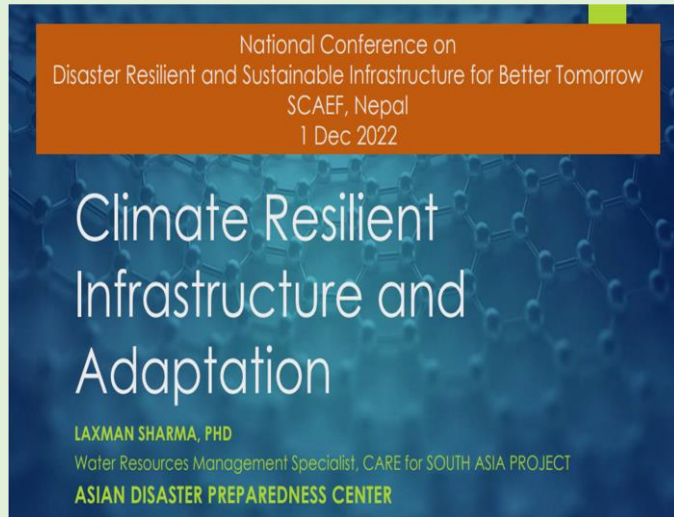
Requirement of public entities to be more proactive in terms of innovation and dissemination of information

The organizational structure of the public entities is more sectoral, thus vertical; thus despite being in support of innovation, there is an unavoidable silo-effect.



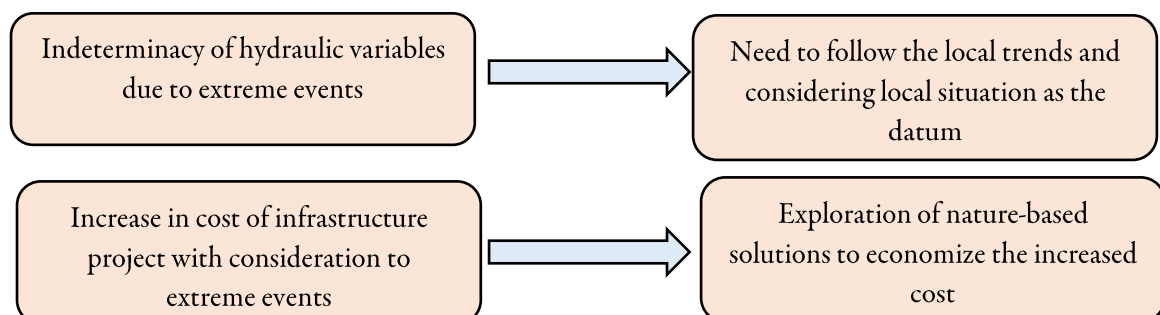
## Climate Resilient Infrastructure and Adaptation

aaaa



The presentation outlines how the Global Climate Models (GCM) provides broader framework for the assessment of more representative design parameters for the design of infrastructures, the models can be biased nonetheless based on the assumptions of the modelers, which can be sometimes intrinsically subjective. The author also focused on how risk, vulnerability, adaptation and resilience of the infrastructures are deeply correlated with the incorporation of robustness, redundancy, resourcefulness, adaptability and responsiveness in their design philosophy. The presentation also stresses on the fact that how the traditional design are based on the on probability distributions that hang on mean values, and therefore, are not suitable to predict the extreme event which are rapidly becoming commonplace. To reduce the subjectivity during the design phase, the presentation also stressed on the immediate need for the development of generic maps and standardized tables.

The presentation was followed by an interactive question-answer session, which is summarized below:





## Moving towards Resilience of the Transport Infrastructure

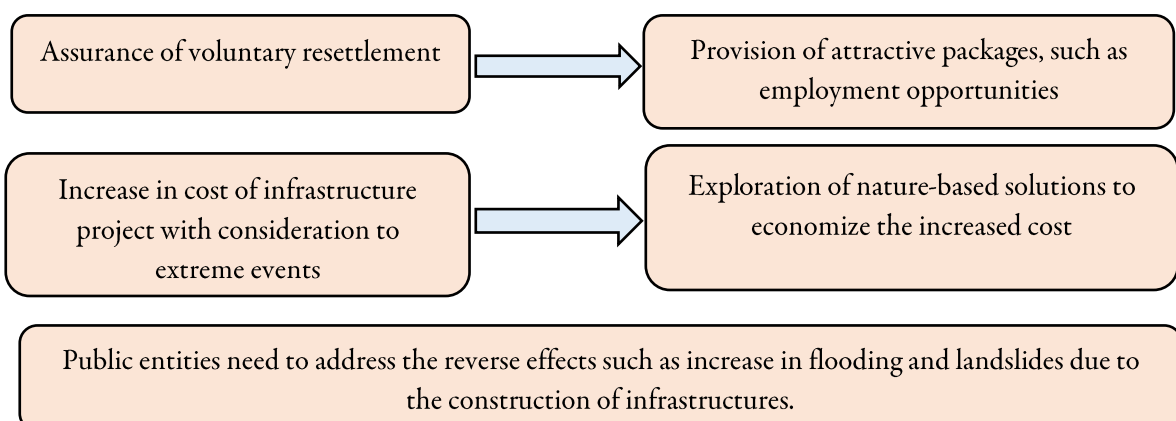
### Moving towards resilience of the transport infrastructure

Chandra B. Shrestha  
Nepal Representative - ICE, UK



The presentation outlines how the resilience of transport infrastructure such as rural road networks can be ensured with the incorporation of more robustness in their planning, layout and design. The incorporation of robustness is not only associated with proper hydrological, geological, seismicity etc studies, and also with the socio-politics and institutional arrangement of the area proper. For instance, development of unengineered roads, uncontrolled minings in the vicinity, larger and ad-hoc maintenance cycle are also equally culpable factors. According to the author, we can also learn from the fact that major bridges were not much affected during the major earthquake event of 2015. The methodology employed during the investigation, planning and design of those bridges can be a learning lesson for us for the development of more resilient transport infrastructures in future. However, according to the author, the most urgent need at the moment is to convert the science to implementable codes and engineering to avoid noise during the planning, layout and design stages, thus ensuring the development of more resilient infrastructure.

The presentation was followed by an interactive question-answer session, which is summarized below:



## Urban Resilience and Sustainable Development

aaaa

### **National Conference on Disaster Resilient and Sustainable Infrastructure for Better Future".**

Presentation on

### **Urban Resilience and Sustainable Development**

November 24, 2022

Surya Bhakta Sangachhe, Senior Urban Planner

Surya Narayan Shrestha, ED / Disaster Risk Management Expert NSET

Suman Pradhan, Director, NSET



The presentation succinctly presents the very important fact that how the planning of infrastructures in urban setting are lagging sharply behind the rapid population growth of the city, thus affecting the resilience of the infrastructures in the long run. As per the author, the urban resilience can only be realized through proper decisions pertaining to investment, which is further backed by right kind of policy documents in place; for instance, Emergency Preparedness Plan, leadership and strategy, empowered stakeholders and by bringing in more focus on integrated development planning.

The presentation was followed by an interactive question-answer session, which is summarized below:

Urban monoculture tends to make the economy less resilient

Significance of vulnerability assessment for the urban resilience

## Disaster Resilience in Hydropower Projects

### Disaster Resilience in Hydropower Projects

Sanjiv Shah, Ph.D., P. Eng. (Nepal)  
Managing Director  
Shah Consult International (P.) Ltd.



The paper succinctly presents how hydropower projects are subject to various kinds of disasters, thus affecting their long-term resilience. The presentation delineate various hydropower projects as the relevant case studies for the same; for instance, river damming by debris flow in Chamelia HEP, devastation caused by debris flood in Upper Doedi “A” HEP resulting in lot of erosion, exposure of foundation, devastation by debris flood in Melamchi WS Project (GLOF Event) etc. The paper aptly demonstrated that how the resilience of hydro-power projects which form the major chunk of Nepal’s infrastrucruces are getting severly compromised due to their elevate susceptibility to hydrological, geoloigcal and seismic events, thus calling for the practice of Design and Operation Approach. Similarly, the author suggested the application of Probable Maximum Outburst Flood (PMOF) instead of Probable Maximum Flood (PMF) for the hydraulic design of the associated structures.

The presentation was followed by an interactive question-answer session, which is summarized below:

Since there are not any proper tools/methodology available yet for the quantification of debris flow, a judicious assessment must be made based on the lessons learnt form the past.

## Minimizing Anthropogenic Negligence in Triggering Disasters using Policy Instruments

### Minimizing Anthropogenic Negligence in Triggering Disasters using Policy Instruments

Tara Nidhi Bhattarai, Ph. D.  
Professor, Department of Geology, Tribhuvan University



The paper discusses case studies in a broad spectrum of disasters, which are generally initiated by human-induced activities thus resulting in loss of property and life. While it is presumed that the disasters are intrinsically natural, the paper was very vocal to raise the very important fact that even anthropogenic activities are equally liable to create, or to create the necessary condition that promote the disaster-related events. The following case studies were significant:

- Nagpuje, Barhabise where 26 houses were destroyed and 31 people died caused by the flooding resulting from improper drainage on the road upstream of the village
- Panchpokhari Thangal Municipality, Tipnee Villeg where a disastrous landslide was caused due to disturbance to the stable slope during cutting
- Debris flow inside the Tunnel of Upper Modikhola HEP, Kaski
- Kalanga HP Project, Bhajang; people died due to lack of oxygen inside the tunnel
- Uttargaya HP, Rasuwa; water seeping from the canal caused landslides resulting in road damaged



## Panel Discussion Session



With the successful presentation of the papers, the event was succeeded by a comprehensive panel discussion chaired by Dr. Amod Dixit, alongwith Ms. Rekha Shrestha, Mr. Chandra Bahadur Gurung and Dr. Hari Krishna Shrestha. Dr. Chandra Bahadur Gurung discussed how the resilience of infrastructures amidst disasters can be addressed or not addressed within the Sendai Framework, and the necessity of National Reconstruction Authority to align their policies with the due regard to resilience. Dr. Gurung also stressed on the necessity of National Building Code revision to align the design and planning philosophy of the urban infrastructure to properly address the issue of resilience, with concurrent appreciation of the fact that land-use may play a significant role on that part.

This was followed by the presentation from Dr. Rekha Shrestha on significance of seismic vulnerability Assessment based on the assumptions and methodology of; 15988: 20B.

### **SEISMIC VULNERABILITY ASSESSMENT AND RESILIENT DESIGN OF STRUCTURES**

**Panel Discussion on 32th Anniversary SCAEF DAY**

Er. Dr. Rekha Shrestha  
R & R Engineering Consultancy Pvt. Ltd.  
1<sup>st</sup> Dec 2022

Dr. Hari Krishna Shrestha brought it to the attention of the participants that most of the disasters/hazards are intrinsically natural, but are created by anthropogenic activities and a proper care should be attributed to that part. He also stressed on the significance of academic research, and the necessity of proper bridge between the designers and the intended users of the planned infrastructures to ensure resilience. He also advised the public entities to include the proper collection and documentation of data as the integral part of Terms of Reference, and the necessity of modality to promote the project which simultaneously highlights conservation during their planning.

## Panel Discussion Session

Requirement of policy to ensure that the constructed infrastructures are not in conflict with heritage

Serious concern on the Infrastructures being constructed on the same spot where the failure had occurred during the Earthquake

Need to bring in more focus on robustness of infrastructures to ensure resilience

Necessity of NBC 2020 revision to align the design methodology along the philosophy of resilience

Unsustainability of combined sewer system in urban setting

Need of due consideration to land-subsidence of Kathmandu valley

Evidence-based study of retention ponds in urban setting

Policy-level intervention to promote young graduates to increase their expertise

The panel discussion session was closed by Dr. Dixit with the following points articulated:

- Per unit cost of physical resilience must be proportionately reduced to ensure its long-term financial resilience
- Increased focus on urban drainage and land-use planning for better resilience
- Promotion to internship and corresponding changes in academic curriculum to properly sensitize the young engineers on the topic of resilience
- Necessity of righteous advocacy for aligning the donor funding with the local needs
- Necessity of development of a rigorous methodology for heritage conservation