

VOCATIONAL TRAINING CENTER

DHUNIBESI 5, DHADING



Progress Report

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KFW DEG

VOITH



Hanns Voith
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1 Introduction

The proposed project is designed for the youths from marginalized and disadvantage group including orphans. It aims to strengthen the accessibility and equity of Technical and Vocational Education and Training (TVET) and convert vocational education into meaningful, well-paid employment and self-employment.

The project will run through a period of 15 months during which a well-equipped technical school (proposed name to be German Technical School - GTS) will be established to provide technical and vocational education and training in Metal and carpentry work. The project will be based at Dhading District of Nepal but will cater the students from all over Nepal. Dhading is one of the districts most affected by the great earthquake. The proposed courses to be taught at GTS are:

- i. Diploma in Mechanical Engineering (3 Years) → Long term course
- ii. Welders (3 months) → short term course
- iii. Hydropower maintenance training → Mid-term course
- iv. Hand carving / Carpentry (1 year) → Mid-term course

2 Project Implementation Modality

For German Technical School (GTS), German organization Zukunft fuer Nepal Ostwuettermberg e.V. Germany will bring professional and technical expertise for quality result while Sheshkant Foundation will expand its scope of area by establishing a separate division/committee for vocational training (German Technical School, Nepal). The committee will be responsible for overall management of intervention and direct implementation and is directly managed under Sheshkant Foundation. GTS, Germany will bring their technical support on i) developing technical manuals, ii) approaches to VET on international practice. Sheshkant Foundation will seek approval from Council of Technical Education and Vocational Training (CTVET) and other concerned government authority to run vocational trainings.

German organization Zukunft fuer Nepal, Ostwuettermberg, shall coordinate with international and German accrediting institute and industries to provide an international recognition for the trainee of GTS.

Sheshkant Foundation will collaborate with local industry and enterprises who worked in the area of furniture and fittings, metal workshops, Electrical & electronic industries, hydropower industries, garments industry, etc for job placement. Likewise, collaboration with local saving and credit cooperatives (SACCOS), micro-finance institutions will be established for easy credit facility to the educated/trained youth people. Further, Sheshkant Foundation will collaborate with local community groups, youth groups, networks, women groups for awareness and establishing value of TVET.

Sheshkant Foundation recognises the principle of inclusion and non-discrimination that all youth people holds equal rights and seeks to address gender balance in access to service and economic opportunities.

With Partnering with Non-Resident Nepalese Association (NRNA), it shall bring the expertise within its members to transfer the knowledge to the Nepali youth for the sustainable development of the country. Besides that NRNA shall support to facilitate with government authorities, FNCCI, Industries and other stakeholders within the country.

Key strategies

- Construction of well-equipped (state- of- art) Workshops, and other required structure.
- Developing additional curricular based on local demand and absorption capacity of local market.
- Participatory vocational training and student-centered learning approach to ensure active, responsible participation in their own learning.
- Promote youth entrepreneurship by facilitating credit facility.
- Job placement facilitation after completion of the training.
- Support skill development for hydropower plant maintenance
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3 Project Location

The project will be implemented at Ward 5, Dhunibesi Municipality, Dhadhing. The location is selected based on previous demands by the locals and request of Ward Committee of Ward 5 of Dhunibesi Municipality.

4 Project Objective

- ❖ Meet the qualified skill workers demand to develop and maintain the hydropower projects in Nepal
- ❖ Empower youth of Nepal by providing an internationally recognized vocational training for the sustainable growth of the country.

5 Expected Outcomes

Metal Workshop:

At the beginning, **yearly** about **12 youths** will get qualified and CTEVT accredited **Diploma in Mechanical Engineering** and further **30 youths** will get qualified and CTEVT accredited **certificates as welders**. In partnership with German hydropower equipment manufacturer Voith Hydro, structured and qualified maintenance training for hydropower equipments shall be provided to the maintenance employees of governmental and private power producers. In cooperation with local industries, the apprentices will get insight into the working environment and experience during the apprenticeship and linked to the potential employer during the training itself.

Carpentry Workshop:

Each year about 60 trainee will received one year CTEVT accredited training as hand/wood carving. This training shall support the traditional handcarving works which is being extincting. In partnership with German furniture chain outlet and manufacturer Rieger Moebel, a

structured training with well equipped training center shall support for this part.

6 Activities

- I. Construction and operation of well-equipped metal workshop
- II. Operation of the apprenticeship training and other hydro specific maintenance training
- III. Construction and operation of well-equipped carpentry workshop

7 Project Team (Implementation)

Name	Role	Institution
Nepal		
Mr. Biseswor P. Dhakal	Chairman, Management team (Volunteer)	Sheshkant Foundation- Nepal
Mr. Gokul Dhakal	Site Coordinator	Sheshkant Foundation
Mr. Subash Baral	Chief Engineer (hired)	Techno Consultant
Mr. Shankar Thapa	Auditor, reporting (hired)	Chartered Accountant
Mr. Nirmal Adhikari	Site Manager (hired)	Civil Engineer
Ms. Januka Neupane	Administration (hired)	Sheshkant Foundation
Germany		
Ms. Petra Pachner	Coordinator (Volunteer)	Zukunft fuer Nepal Ostwürttemberg e.V. (ZfN)
Mr. Pawan Dhakal	Donor Coordinator (Volunteer)	Voith Hydro / NRNA
Mr. Herwig Jantschik	Coordinator (volunteer)	Voith GmbH

8 Progress

❖ Financial Progress

Metal Workshop:

With the decision of the Company Voith Hydro together with German Development Bank KfW-DEG, both with its office in Germany has signed a contract on 6th December 2017 to finance this metal workshop construction project with total amount of **330.569,- EURO**. Out of the total estimated costs, **EURO 114.500,-** will be financed by KfW_{DEG} bank under the program develoPPP.de, while Voith Hydro as the counterpart will invest the total amount of **116.069,- EURO**. Other Project management costs, site coordination costs and miscellaneous costs will be bearded by the German partner NGO Zukunft fuer Nepal Ostwürttemberg e.V. and member of local partner NGO Sheshkant Foundation as a voluntary work.

Financial Progress of major works and their status are given in the following table:

	Type of works	Budget in EURO	released amount	Work progress in %	Remaining Budget	Completion deadline	Remarks
1.	Cost of Materials						
1.1	Metal Workshop hall construction	100,758 €	80,000€	65%	20,758 €	15.04.2018	
1.2	Machinaries and equipments	64,731 €	0	40%	64,731 €	01.05.2018	Machines are now packed and ready for Sea- transport at Hamburg Port.
2	Costs for machine installation and Train the Trainer						
2.1	Machine Installation	21.000 €	0	0%	21.000 €	30.08.2018	Voith Trainees are planned to visit the project site in Dhading in order to install the machines.
2.2	Maschinen Installation Supervision	25.880 €	0	0%	25.880 €	30.08.2018	
2.3	Train the Trainer in Germany	13.800 €	0	0%	13.800 €	30.09.2018	Train the Nepalese trainer at Voith training center in Heidenheim.

Carpentry Workshop:

The German Furniture outlet and Furniture Chain Rieger Moebel is the partner for this workshop, which is providing financial support through the Egon-Rieger Stiftung. Besides that other German Foundations like Hanns-Voith- Stiftung, Margerete Mueller-Bull Stiftung and German NGO Future for Nepal are providing the financial support for this project. The total estimated costs to realize this project is **198.314,-EURO**. Machinaries for this carpentry workshop is being provided by Voith Academy while the Voith Academy trainees will visit Nepal to install the machines at Site in Dhading.

Financial Progress of major works and their status are given in the following table:

	Type of works	Budget in EURO	released amount	Work progress in %	Remaining Budget	Completion deadline	Remarks
1.	Cost of Materials						
1.1	Carpentry Workshop hall construction	75,064 €	10,000€	5%	65,064€	15.09.2018	
1.2	Machinaries and equipments	15,400 €	0	40%	64,731 €	01.05.2018	Machines are now packed and ready for Sea- transport at Hamburg Port.
2	Costs for machine installation and Train the Trainer						
2.1	Machine Installation	33.600 €	0	0%	33.600 €	30.08.2018	Voith Trainees are planned to visit the project site in Dhading in order to install the machines.

2.2	Transport	15.000 €	0	0%	15.000 €	30.08.2018	
2.3	Administration and miscellaneous	39.250 €	0	0%	33.800 €	30.09.2018	Architecture costs, Project management costs and administration costs.

❖ Construction permit:

Sheshkant Foundation had applied for an approval at Social Welfare Council (SWC) and Dhunibesi Municipality to build the vocational training hall in Dhading. The approval for the construction was received from SWC in February 2017 and from Dhusibesi Municipality in November 2017.

❖ Geological Assessment of the soil quality to build against the earthquake and landslides:

The geological assessment of the soil quality to build the workshop on safety level against the earthquake and landslides has been performed in June 2017 by a professional consultant MULTI LAB ((P) Ltd. The design for the workshop has been adjusted according to the assessment result. According to new design the building can resist upto richter magnitude 8.5 earthquake.



Pictures: Extracting the underground sample soil for testing

❖ Physical Progress (Workshop hall)

Metal Workshop:

The Construction work of metal workshop (hall) has been awarded on 23th October 2017 after following the government of Nepal procurement guidelines to Hira and Namita Construction Pvt. Ltd, a local A- class civil contractor. The contracted amount for the workshop hall is **10,780,141,- NRs** (Ten millions seven hundred eighty thousands one hundred fourty one rupees excl. VAT, (equivalent **93,750 EURO**) plus **13 % VAT**). Till date all ground works have been completed. All concrete for RCC slab, column, beam, shearwall etc has been 60% completed. Also laying and fixing of TMT steel reinforcement bars has been 50% completed. All together approx. 35% of the contracted work has been completed till 10th

of December. As per schedule, the entire contracted work is schedule to be completed by mid of march 2018 and will be ready for handover process.



Pictures: Construction work in progress at project Site in Dhading

The ground for the metal workshop (5150 m²) is donated by a local social worker in order to make this project possible.

❖ **Machineries:**

The machineries are packed for the Sea transport by Logistic Zentrum Heidenheim. Recently, it is stored at Logwin air and Ocean Transport hall in Hamburg. The total logistic costs from Germany to Dhading will be supported by this Logwin air and Ocean Transport.



Photos: Machines being loaded to transport to Hamburg at Voith Compound in Crailsheim

Sheshkant Foundation has applied for the custom tax exception certificate at Social Welfare council (SWC) in Kathmandu. Once it is approved by SWC , department of commerce and custom department, the sea transport from Hamburg to Dhading will begin, estimated by the mid of march 2018.

❖ Accreditation of the vocational courses by CTEVT (Council for Technical Education and Vocational Training)

Sheshkant Foundation has already applied for it all major courses i.e. Diploma in Mechanical Engineering, Welders and Maintenance Engineering at CTEVT for the accreditation. It will take several months to receive the accreditation.

❖ Selection of the candidates “Train the Trainer”

Sheshkant Foundation has initiated the process to select two “Train the Trainer” candidates to be sent to Voith Training center in Germany. The advertisement will be published in National newspapers within Februaryth January 2018. The selection process will end approx. by the end of March and be ready to send to Germany.

❖ Cooperation with Non-Resident Nepalese Association (NRNA):

Pawan Dhakal, Voith Engineer and designer of this social project has been appointed as Convener of the newly established sub-committee Skill Training Center. NRNA intends to cooperate with Sheshkant Foundation to implement this pilot project in Dhading. After the formation of full executive sub-committee and ToR’s, a process will initiate to sign a MoM with Sheshkant foundation to establish a model vocational training center cooperating with all stakeholders like FNCCI, Government of Nepal, CTEVT and other authorities.

The NRNA Sub-committee consists of:

Advisors Panel	Role	Country
Mr. Ram Pratap Thapa	Advisor	Germany
Dr. Badri K.C.	Advisor	Russia
Dr.Pramod Dhakal	Advisor	

Executive Committee

Mr. Pawan Dhakal	Convenor	Germany
Dr. Sarad Thapa	Member	Germany
Mr. Yadu Banjara	Member	USA
Mr. Sudeep Adhikari	Member	Japan
Mr. Prakash Dhamala	Member	South Korea
Mr. Dinesh Ghimire	Member	UK
Mr. Ram Hari Bhandari	Member	USA
Ms. Uma Karki Thapa	Member	USA

❖ Co-Operation with Other Associations

SheFa has also initiated a process to cooperate with other associations like Federation of **Nepalese Chambers of Commerce and Industry (FNCCI)**, **Hydropower Associations of Nepal (NHA)**, **Independent Power Producers of Nepal (IPPAN)** and other related associations for better development and establishment of the dual vocational training system in Nepal.

ZfN has also initiated a discussion with Siemens India to share on over-arching philosophy, implementation strategy, technicalities involved; learnings and program outcomes and explores the possibilities for cooperation in Nepal, which Siemens is practicing in India since ages.

❖ Marketing Campaign

SheFa team participated in the Himalayan Hydro Expo 2018, which was held from 5th - 7th January 2018 in Kathmandu. The team was brought to the Voith Hydro stall, which was seen by large number of visitors, interested industry partners and students. During the event, image and videos was displayed, booklet with courses and information on cooperating partners were distributed among the interested stakeholders.



SheFa Team members participating in Himalayan Hydro Expo in Kathmandu