

A Report on Wood Treatment Training for Trainers (In House)

5th November, 2017

ASF Nepal, Head Office – Chakupat, Lalitpur

Background

Treatment of wood has been in practice for as long as the wood itself. Wood treatment refers to protecting wood from damage caused by insects, moisture, and decay. Treatment of wood does not prolong the life of the wood but it helps to stabilize the condition of the wood so that it can attain its full life in a healthy manner.

Need

In older times, SAL (अग्राठ) was used which was quite resilient towards damage caused by insects, moisture and fungi. But in recent times, SAL (अग्राठ) has become reasonably expensive and is also not easily accessible.

Some of the wood which are easily accessible and comparatively cheaper can work as well as the SAL (अग्राठ) if treated properly. So to make maximize the utilization of available resources, wood treatment is essential.

Objective of training

Basic objectives

- 1) To enhance the capability of the entrepreneur
- 2) To promote wood treatment at local level

Methodology:

There were two sessions of the training; theoretical and practical. Theoretical session consists of introduction of DOT and its significance - different methods regarding wood treatment were also discussed but the focus was on DOT (Disodium octa-borate tetra-hydrate), method of treatment and quality control test. Participants were involved in the practical session for hands on experience.

Group discussion was held before and after the training to know the level of knowledge about wood treatment so that the effectiveness of the training could be analyzed.

Group discussion was also held regarding the view of the community and its credibility to the community.

Process:

Trainer:

Training was provided by Mr. Prakash Nepal, Civil Engineer at ASF Nepal as per the schedule below.

Queries:

Few queries put forward by the trainee before the beginning of the training were:

- 1) Does wood treatment increase the life of the wood?
- 2) Can one increase the strength of the wood after wood treatment?
- 3) Can one give information about the training to others after the completion of the training?
- 4) Does this really work in the place where there is excessive amount of rainfall?
- 5) Is wood treatment really effective?
- 6) Why should DOT method be preferred over other mediums of wood treatment?

The training was able to answer all these queries.

Conclusions:

From all the above discussions and taking experimental results as a base, it was found that the DOT method of wood treatment is quite effective, environmental friendly and cost-effective compared to other methods of wood treatment. However, it was discussed that due to lack of previous precedential results, credibility base has to be formed.

Annex

Training Schedule:

Total Duration: 1days						
SN	Time	Session	Duration	Tools	Expected outcomes	Trainer Team
1.	10:00 – 11:00	Day 1: Theoretical Session: a. Opening, Introduction, Expectation collection and preliminary analysis b. Objectives of training, rules during training, introduction to training schedule and curriculum c. Group division and Pre test d. Tea break e. Discussion among participants and gathering information about wood treatment: - Why wood used in construction. - Which parts of building are the wood used - The type of wood available in different site along with their respective pros and cons. - Problems found in wood over the years - Treatment known (if any) f. Illustration of different types of treatment methods and introduction of D.O.T., advantages of D.O.T., how it works and its relevance g. Description of each steps of treatment in detail and discussion among participants: - Identification and classification of wood - Check for moisture content - Preparation of tank - Mixing of chemicals (with ratio) - Soaking - Dripping - Stocking - Diffusion - Quality control Check (explaining dye and revealer) h. lunch break	1hr.	Presentation tools along with booklet	Participants get to know each other and are expected to share their knowledge of wood, common problems Various treatment techniques will be described to the trainees and discussions will be carried out The participants will understand the activities done in each step along with their importance	2 trainer each for theory and Practical Sessions for a group of 7 trainees
	11:00 – 11:30		30 min.			
11:30 – 11:45	15 min.					
11:45-12:15	30 min.					
12:15-1:45	30 min.					
2.	1:45-2:30	Day 2: Practical Session: Each step of D.O.T. treatment explained in the theoretical session is conducted by	45 min.	Materials, Chemicals		

	<p>participants themselves on the field step by step.</p> <p>a) Check for moisture content b) Mixing of chemicals in warm water c) Soaking in water d) Dripping and Stocking e) Quality control check: step 1: Application of Dye step 2: Drying of Dye Step 3: Application of revealer f) Interpretation of results and post test g) Revision of overall process and experience sharing h) Closing Ceremony and certificate Distribution</p>	<p>30 min. 60 min. 30 min. 30 min. 30 min. 30 min. 30 min. 30 min.</p>	<p>for preparing solution and quality control. Previously treated wood (at least 3 days diffusion) for quality control check</p>	<p>Participants will be able to conduct wood treatment and quality control on their own</p>	
2:30-3:00					
3:00-4:00					
4:00-4:30					
4:30-5:00					
5:00-5:30					

Details of trainee

S.No	Name of the trainee	Designation
1	Prabita Shrestha	Treasurer, ASF Nepal Board
2	Salena Sangachhe	Program Manager
3	Ujwal Nanda Vaidya	Program Manager
4	Rupesh Shrestha	Community Architect
5	Ruby Shakya	Project Architect
6	Bidhan Shrestha	Project Architect
7	Manindra Ram Shrestha	Admin & HR assistant
8	Binod Twayana	Site Engineer
9	Inusha Neupane	Site sub engineer