

IESL Industrial Visit to ENV Engineering Enterprises Lanka Factory at Dompe

V Formin' Formwork Sheet

*A ground breaking formwork material solution from
ENV Engineering Enterprises Lanka*



1.0 Introduction

The Civil Engineering Sectional Committee of the Institution organized the Industrial visit to ENV Engineering Enterprises Lanka Factory on Saturday – January 25, 2020 and 23 members participated in the visit. It is located in Dompe, just 25km away from the Colombo City.

The Chairman, Eng. Mahanama Ralapanawa & CEO, Eng. Vajira Gunasekera of ENV Engineering, welcome all the participants and provided a brief introduction of the company & the product “V Formin” Form work sheet.

1.1 Company Background

ENV has been established in Sri Lanka in 2017 with equity participation of Eng. Mahanama Ralapanawa and Lanka Ventures PLC (the listed venture capital arm of HNB and DFCC). ENV has strong roots with Malaysia and Singapore for its key production process, consultants and raw material sources. The 1st production line of state-of the art factory has been commissioned in January 2019. The factory has the capacity for two more production lines.

1.2 Product Detail

ENV Construction Board is made up of 100% PVC Material. Its total waterproof and fully recyclable advantages making it a best alternative for construction formwork. The standard parameters of the board are indicated below

Standard thickness	: 12 mm, 15mm, 18mm
Standard Size	: 2.44m x 1.22m (8' x 4')
Weight	: 6.5kg/sq.m (12mm), 8kg/sq.m (15mm), 10kg/sq.m (18mm)
Density	: 540kg/m ³

The sheet is composite with 3 layers with smooth white surfaces on top and bottom with grey layer in the middle. White-colored enhanced new PVC surface layer provides higher strength and hardness to withstand the tough environment during construction. Dark-coloured foamed Core layer made up of recycled PVC material, reduces the weight and provides the 'wood feel' effect during nailing.

1.3 Advantages of the Product

a. Cut-to-Size

V Formin' Formwork Sheet can be custom-made in different length & width to suit the customer's construction requirement.

Custom Width : 50mm to 1220mm

Custom Length : No Limit

Custom Thickness : 3mm to 18mm

b. Total Waterproof

Made up of 100% PVC resin and recycled materials, V Formin' Formwork Sheet is able to withstand rain or sunlight without compromising its quality.

c. Smooth Concrete Surface - No peel-off effect

Manufactured under precision one-piece process, each piece of V Formin' Formwork Sheet is going through high temperature and being formed out of the machine. No lamination on the surface provides assurance a smooth concrete surface.

d. 100% Fully Recyclable

ENV Buy Back all waste, regardless of any size & shape.

e. User Friendly

V Formin' can be cut, saw, nailed, drilled and even dropped like normal wood products. No special tools required.

f. Highly Compatible with other materials

2.0 Production Line & Manufacturing Process

The participants were briefed on the production line and manufacturing process by the ENV technical team. The production line has a capacity of manufacturing 6500 of standard 2.4m x 1.2 m sheets per month.

3.0 Demonstration of the Product Usability

Demonstration of the product usability was carried out with cutting of the sheet, nailing, bending, dropping from height, burning, etc.,

4.0 All the participants were taken to their guest house located nearby and was provided with refreshments after the visit

Photographs taken during the visit are also attached herewith.

*Eng. (Cdr.) Gihan Jayathilake (Rtd.) SLN
Team Leader – Site Visits
CESC*



Briefing by Chairman & CEO of ENV Engineering



Participating members of IESL

Explaining of the Production Process



Demonstration of the Product Usability





IESL member Participants and the ENV Staff

