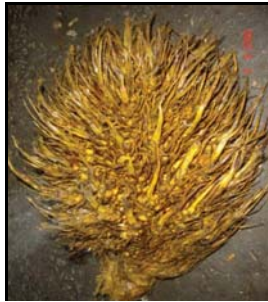


# PRODUCTION OF STRAND FIBRE FROM EMPTY FRUIT BUNCH (EFB)



Empty Fruit Bunch (EFB) ↓



EFB Roller Crusher (30HP)  
To loosen and remove the fruitlets from hard and unstripped bunches ↓



EFB Shredder & EFB Press (75HP)  
-to shred before press machine  
-to extract the press liquor from bunch  
- moisture content in EFB after press – 50 – 55%  
- oil content EFB after press– 0.2 – 0.3 to FFB



Strand Fibre ↓



Bailing Machine →



Hammer Mill (50HP)  
- to break down fibre into single fibre strands →



Strand Fibre after Hammer ↓



4-Stage Dryer (20HP & 15HP) with dust remover system  
- further reduces the moisture  
- heating time – 20mins  
Dryer 1 – moisture 35%  
Dryer 2 – moisture 25%  
Dryer 3 – moisture 15%  
Dryer 4 – moisture 12%



Bailed Fibre →



Bailed Fibre ready for market

## INTRODUCTION

Palm oil mill EFB amounting to about 22-23% of the fresh fruit bunch (FFB) processed. A mill processing 20,000 tonnes of FFB per month would produce about 4,600 tonnes of EFB. Transfer of EFB to the plantation for mulching would involve high cost. Therefore, conversion of EFB to fibre at the mill will generate high profit when marketed locally or oversea.

## COMPOSITION OF EFB

Moisture content - 70 – 75%  
Fibre - 23 – 25%  
Oil content (wet basis) - 3.5 – 4.0%

## PROCESSED FIBRE

= Strands Fibre size – 3 – 10" (75 – 250mm)  
= Bailed Fibre: weight – 80 – 90 kg  
Dimension - 20" W x 30" L x 20" H  
(510mm x 760mm x 510mm)

