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APPENDICES

Final Report Purwakarta Diesel_compressed

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Figure 17. Plagiarism Check



Figure 18. Setting mini tractor



Figure 19. Servicing Grass cutter Machine



Figure 20. Setting Grass cutter machine



Figure 21. One of the rice field in Pesawahan



Figure 22. Throw in type thresher machine with engine 6.5hp



Figure 23. One of the Rice industry



Figure 24. Mechanism of how engine move the milling machine



Figure 25. Grain and its husk



Figure 26. The inside of Milling Machine LM 24



Figure 27. Purwakarta Diesel Store



Figure 28. S1115 Diesel set in a Ichi Machine



Figure 29. Belt and pulley that connect the machine and the engine



Figure 30. The elevator that connect the milling to polisher machine



Figure 31. Purwakarta Diesel store and the employee



Figure 32. Ichi N50



Figure 33. Lm 24 machine inside and the rubber roll



Figure 34. Rice field



Figure 35. One of the field in Pesawahan

Proses penggilingan beras dari padi



Pemotongan padi menggunakan mesin potong rumput yang sudah di design



Perontokan gabah menggunakan mesin perontok padi



Penggilingan dan pengkilisan beras menggunakan milling dan polishing mesin

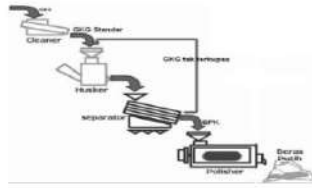


Figure 36. Guidebook

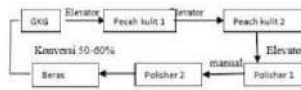
Mechanism

Milling and Polishing Machine Combination

One way pass : Enter a one step process of milling and polishing



Two way pass : Enter two steps of milling and polishing process



Keterangan :
→ Arah proses

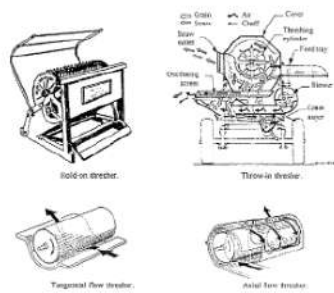
Gambar 2. Proses Pengolahan Padi menjadi Beras pada Penggilingan Skala Sedang.

Production rate is similar, but a two way pass process will produce a better quality of rice.

Figure 37. Guidebook



Figure 38. Guidebook



Throw-in Thresher Machine

- Padi langsung dilemparkan ke mesin
- Potong pendek
- Axial Flow
- Use engine of 6.5 HP to up to 13 HP
- Harga : Rp. 5.000.000
- Bisa merontokan padi sebanyak 140kg/h

Hold-On Thresher Machine

- Padi harus dipegang selama perontokan
- Potong Panjang
- Tangential Flow
- Use 6.5 HP engine
- Harga : Rp. 4.000.000
- Bisa merontokan padi sebanyak 60kg/h

Figure 39. Guidebook



- Milling/Huller Machine
 - LM24 2C
 - Kumba, Echo and GT
 - Engine
 - 12-16 horsepower
- Harga satu paket dengan
 - mesin Kumba
 - Rp. 18.500.000
 - Mesin GT
 - Rp. 18.000.000
 - Mesin Echo
 - Rp. 18.200.000

Figure 40. Guidebook

Price for Building a Milling and Polishing Industry

For the LM24 2C, the price is about Rp. 11.500.000 and for the Ichi N70 the price is Rp. 11.000.000. For Ichi N 50, the price is about Rp. 8.000.000. The engine from In-Da for the size of 1115 which has the power of 24 Hp is Rp. 8.000.000 and for the S1100 which has the power of 20 Hp, the price is Rp. 7.000.000. In building a pass of machine mechanism, some other equipment and apparatus are needed which are:

- 2 pieces of pulley plate with the diameter of 14 cm for S1115 : Rp. 130.000
- 12 cm for S1115 : Rp. 120.000
- 2 pcs of Circulation funnel : Rp. 160.000
- 2 pcs of water pump circulation : Rp. 400.000
- 2 pcs of drain cock : Rp. 50.000
- 6 m of circulation hose : Rp. 120.000
- 6 m of T belt 4 x 5 TPR : Rp. 510.000
- 6 m of T belt 3 x 4 TPR : Rp. 390.000
- T belt clipper for 4 x 5 : Rp. 25.000
- T belt clipper for 3x 4 : Rp. 20.000
- T belt asphalt : Rp. 25.000
- 1l Gardan Oil for LM24 2C : Rp. 35.000
- 8l of mesran B oil for the engine : Rp.270.000
- Specialize design pulley for Ichi N 70 (to make the spin faster) : Rp.450.000
- 12 anchors of 24mm : Rp.360.000
- 6 anchors of 19 mm : Rp. 150.000
- 8 bolt of 17mm for water pump circulation : Rp. 50.000