

PROJECT : FABRICATION OF PROTOTYPE DESIGN OF BAMBOO FIBER EXTRACTING MACHINE  
 OWNER : PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY  
 LOCATION : BAI COMPOUND, VISAYAS AVENUE, VASRA, QUEZON CITY  
 DURATION : 30 CALENDAR DAYS

**BILL OF MATERIALS/COST ESTIMATES**

PARTICULARS		QUANTITY	UNIT	UNIT PRICE	AMOUNT
<b>I. FABRICATION OF FRAMES</b>					
	1 1/2" X 1 1/2" X 6mm Angle Bar	2	pc		
	1" X 1" X 4mm Flat Bar	1	pc		
	Pillow block mounted ball bearing with 3/4 inch bore shaft diameter, P204	4	pc		
	4-Bolt flange block mounted ball bearing with 3/4 inch bore shaft diameter	4	pc		
	10mmØ X 40mmL Full Thread Bolt Hexagonal Head with Washer and Lock Nut (High Tensile)	40	pc		
	MS Plate, 4mm thick (385mm X 608mm)	2	pc		
	Transport Wheel with Lock, 70daN Load Capacity, 100mmØ	4	pc		
	Metal Grinding Disc, 4"	10	pc		
	MS Welding Rod No. 7018, 3.2mmØ	5	kg		
	Red Oxide Metal Primer	2	li		
	Thinner	2	li		
	Paint Brush, 2"	4	pc		
	Paint Brush, 1"	4	pc		
	6mmØ X 16mmL Stainless Steel Full Thread Bolt Hexagonal Head with Lock Nut	42	pc		
	6mmØ Stainless Spring Washer	84	pc		
	12mmØ X 40mmL Full Thread Bolt Hexagonal Head (High Tensile)	4	pc		
	12mmØ Carbon Steel Hex Lock Nut	4	pc		
	12mmØ Flat Washer	4	pc		
<b>II. FABRICATED MATERIALS</b>					
	Rollers mounted to shaft, 120mmØ X 150mmL, use matured kamagong or yakal wood, and the shaft made of alloy steel	4	set		
	Roller brushers mounted to shaft, 145mmØ X 150mmL, use 3mm MS plate, 1" X 4mm thick flat bar, and the shaft made of alloy steel	2	set		

PARTICULARS		QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Carbon steel gear as stated in the design	2	set		
	Module=3.63				
	Pressure Angle=20degrees				
	No. of Teeth=34				
	Diametral Pitch=7/inch				
	Reference/Pitch Diameter=118mm				
	Addendum=5mm				
	Dedendum=5mm				
	Tooth Depth=10mm				
	Tip Diameter=128mm				
	Root Diameter=108mm				
	Center Distance=120mm				
	Bore Distance=20mm				
	Feeding chute, use 3mm MS Plate, 1 sq. meter	1	pc		
	Fiber chute, use 3mm MS Plate, 1 sq. meter	1	pc		
	Side cover, use 3mm MS Plate (836mm X 419mm)	2	pc		
	Top cover, use 3mm MS Plate (778mm X 198mm)	1	pc		
	Spring tensioner, use 3.8mm $\varnothing$ high carbons teel spring	4	pc		
	Height=86mm				
	Diameter=28mm				
	Pitch=10mm				
	Clearance adjuster, use 16mm $\varnothing$ threaded round bar made of alloy steel	4	pc		
<b>III. PAINT WORKS</b>					
	Epoxy Primer	2	li		
	Thinner (Epoxy Reducer)	2	li		
	Epoxy Paint, two coatings	3	li		
<b>IV. PRIME MOVER, PULLEYS AND V-BELTS</b>					
	2HP Single Phase Low Speed Electric Motor, 1440 RPM, 220-240V, 60Hz Frequency	1	unit		

PARTICULARS		QUANTITY	UNIT	UNIT PRICE	AMOUNT
	AC Electric Motor Variable Speed Controller with Plug and Emergency Stop	1	unit		
	Maximum Input Power = 1500 Watts				
	Maximum Current = 8A				
	Maximum Input Current = 15A				
	Frequency = 60Hz				
	2 Groove 35mm ID V-Belt Pulley	1	pc		
	35mm ID V-Belt Pulley	1	pc		
	75mm ID V-Belt Pulley	2	pc		
	2-Groove 120mm ID V-Belt Pulley	1	pc		
	120mm ID V-Belt Pulley	1	pc		
	B562mm V-Belt or near commercial standard size (adjusted prior to fabrication)	1	pc		
	B871mm V-Belt or near commercial standard size (adjusted prior to fabrication)	1	pc		
	B957mm V-Belt or near commercial standard size (adjusted prior to fabrication)	1	pc		
	B641mm V-Belt or near commercial standard size (adjusted prior to fabrication)	1	pc		

Total material cost, Php \_\_\_\_\_  
Total labor cost, Php \_\_\_\_\_  
Total Indirect cost, Php \_\_\_\_\_  
Total taxes, Php \_\_\_\_\_  
**Total Contract Cost, Php** \_\_\_\_\_

Prepared by:

\_\_\_\_\_  
Company owner/Representative:

Company name:  
Address:  
Date: