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Table H.1 Appendix H.1Current Rice Retail Price in East Timor

Sample	Market	Production	Retail Pr	rice (US\$)	Sampling Date
No.	Purchased	Origin	Per Can	Per KG	
1.	Summary	Local	-	0.82-2.04	July-Sept. Sept
		Import	-	0.77-1.10	2001
2	Comoro/Dili	Viqueque (ET)	0.50	0.71	Nov 18, 2002
3	Hello Mr./Dili	Australia	3.07/2kg	1.54	Nov 18, 2002
		SUN RICE			
4	Hello Mr./Dili	Australia	1.64/kg	1.64	Nov 18, 2002
		Koala Brand			
5	Comoro/Dili	Viqueque (ET)	1.00	1.32	Nov 18, 2002
		Purple-colored			
6	Maliana	(ET) Nonaportu	0.20	0.29	Nov 21, 2002
		Maliana (dirty)			
7	Maliana	Indonesia	0.25	0.36	Nov 21, 2002
8	Singapore	Thailand	1.20/kg	1.20	Nov 23, 2002
	Market/Dili				
9	Singapore	Japonica	1.60/kg	1.60	Nov 23, 2002
	Market/Dili	Rice/Singapore			
10	CLNTL/Dili	(ET)Maliana	0.60/2kg	0.24	Dec 2, 2002
11	Becora/Dili	Baucau (ET)	0.50	0.64	Dec 6, 2002
		Sulawesh		<u> </u>	
		(dirty)			
12	Becora/Dili	Viqueque (ET)	0.50	0.71	Dec 6, 2002
		R5 (mixed with			
		Broken & husk)			
13	Taibesse/Dili	Indonesia	0.25	0.36	Dec 6, 2002
14	Taibesse/Dili	Viqueque	0.50	0.71	Dec 6, 2002
		(reddish-colored)			
15	Comoro/Dili	Baucau	0.50	0.71	June 30, 2003
16	Comoro/Dili	Indonesia	0.25	0.34	June 30, 2003

Source: JICA Study Team by actual sampling purchase

District Wise Farm Machinery distributed under Mobile Brigade and Donation by Chinese Government Table H.2

Fourinment	1 autom	Barrean	Vignedile	Manaturo	Manaturo Manufahi	13.5	Ailem	Frmera	Ainaro	_	lionica Bohonaro	Covalima	Ambino	Total
A. MOBILE BRIGADE		+								_				
1. 4-wheel Tractor, John Deere Model 1100	7	2(3)	2	1	.5	_	_			_			· 	20
2. 4-wheel Tractor, John Deere Model 5000	<del></del>	Ξ												
3. Hand Tractor, Tongyang Model TDM-120E			12	13	13	_			ш)		20	<u>െ</u>		
Paddy wheel set		20 (2)	12	13	13				ш)		×			
4. Hand Tractor, John Deere Model 820R	19	-	13	10	23	വ	14	17	13	10	8	2		8 18
Paddy wheel set	9	5	10	4	15		7	7	_		=	_		
5. Hand Tractor, Siam Kubota Model KP131		15		15										(,,
Paddy wheel set		15		15										(1)
Leveler		15		15										(,)
Rotor		15		15										30
Trailer		15		15										
B. CHINA GRANT AID														
1. 4-wheel Tractor, Model 504	7	2	က	3	က		2	7			(,)			
Trailer	2	7	က	3	က		2	8			(,,			
5 mouldboard Plough	2	2	3	3	m		7	8			(,)			
4 mouldboard Plough	7	7	က	3	m		2	2			(,,			
2 mouldboard Plough	12	12	13	13	13		12	12		_	=	_		
Spiral Harrow	2	2	က	3	ო		2	2						
Paddy Harrow	2	2	က	3	e		2	2						
Paddy Plum Harrow	2	2	က	3	en		2	2			.,			
Grain Drill	2	7	က	က	m		2	2		2	.,			
Trencher	7	7	က	က	m		2	2			.,			
2. Hand Tractor, Model Dongfeng 12L	12	12	<u></u>	13	13	Ŋ	12	12	12	Ξ	13	_	2 10	150
Paddy Wheel	12	12	13	13	<u>-</u>		12	12			<u>~</u>	_		
Harvester, Model SU 4GL-130	12	12	13	13	13		12	12		_	<del>~</del>	_		
3. Thresher, Model TDG-400		ත	9	10	10		_	Φ			<u>≃</u>			
4. Separate Rice Mill, Model GNF-13.2	_	∞	6	6	6		_	00		7				
5. Grain Blower, Model YJ-10A	7	<u>∞</u>	<u>о</u>	6	<b>о</b>		7	Φ						
6. Mist Duster, Model 3WS-3A	7	∞	8	8	ω			∞			<u>~</u>			
7. Hand Sprayer	7	∞	8	8	∞		_	∞						4
8. Tipcart	4	4	4	4	<u>ო</u>		က	n			7			50
9. Excavator		-			_									
C. Total (A. + B.)														
1. 4-wheel Tractor	4 5	4 (4)	Ω.	4	9 (	<u>ئ</u>	ကဗ	ကင္	ლ <u>წ</u>		2	ro é	۳ <del>و</del>	55
Z. Hand Tractor	2		လို	16	45	_	9		র 	7	č			

Table H-3 Estimated Number of Post-Harvest Facility in East Timor (1)

1. Number of Post-Harvest Facility collected by Suco Survey

	ė,	(kg/day)	0	0	<del>-</del>	0	0	0	6,000	0	73,000	0	23,500	200	0	0	102,700			6	(MT)	6,174	11,039	10,493	3,240	3,816	1,487	8,167	4,844	3,339	3,860	22,944	12,824	5,977	99,204
	Coffee	(Onit)	1	<del>-</del>	<del>-</del>	0	0	0	12	ō	106	0	<del>1</del> 0	2	0	0	139		(1997)	Maize	(ha)	3,495	5,873	5,257	1,675	1,754	797	3,981	2,569	1,839	2,821	11,560	7,442	4,366	53,429
Pulper/Sheller	_	(kg/day)	(	0	0	2,682	0	0	0	0	0	0	0	0	270	0	2,952		Production (1997)	9	(MT-Paddy)	1,656	6,211	9,369	2,467	1,178	108	006	1,708	811	253	7,860	2,661	2,786	37,968
	Corn	(Unit)		0	<del>-</del>	7	0	0	0	0	0	0	0	<del>-</del>	က	0	10			Rice	(ha) (l\	989	2,254	3,747	871	446	47	319	648	319	115	2,670	910	1,166	14,198
lity	Others		(	∞	0	_	0	0	0	0	0	0	0	0	0	8	17		Population	(2001)		49,213	93,368	54,315	32,598	35,500	128,490	30,146	84,510	36,969	43,406	62,273		44,517	737,811
Storage Facility	Separate	Building	ľ	2	9	8	0	_	0	0	0	0	0	0	<del></del>	0	17		(16	(a)/(b)	·	4.5	5.0	4.7	4.0	5.3	4.9	5.8	4.3	4.8	4.6	4.6	4.8	4.5	4.7
St	Inside	Home		6	13	18	4			4	12	4	7		01	4	105		& Households (1997)	(b) Households		11,596	19,187	12,691	8,804	7,180	35,628	5,479	20,341	9,111	11,452	19,925	12,993	12,356	186,743
ots)	Curing	(Unit/	sq.m./	0	0	1	0	0	0	0	0	0	0	0	0	0	1			1 (b) Hou															
Jnits or Plo	Standing	Platform		0	10	646	0	0	86	0	1,684	0	836	710	0	0	3,972		Population	ulation		51,900	96,800	59,400	35,200	38,300	174,200	31,900	88,300	43,400	52,500	91,300	63,000	55,400	881,600
Drying Facility (No. of Units or Plots)	Concrete Yard	Private	(Piot)		948	0	882	603	9	160	1.722	0	1,007	444	154	528	6,471			(a) Population															
ing Facili	Concre	Public	(Flot)	2	433	0	0	_	-	0	က	0	0	0	8	0	520			(b)/(a)		0.265	0.206	0.486	0.138	0,172	0.167	0.093	0.245	0.190	0.261	0.180	0.222	0.16	0.213
Dry	Mat	(Units)		34	770	3,590			204	120	2,500	0	1,291			536	13		soone	Nev	•	6	13	17	4	5	8	4	13	4	9	6	10	4	106
Mill	Capacity	(kg/day)		1,250	675	14,455	21	3.100	200	0	850	0	0	8,500	1,050	900	31,001	ñ	No. of Sucos	(b) Survey															
Rice Mill	No. of			4	17	25	,	4	_	0	_	0	0	7	כזו	4	69	Calibratio		(a) Total	 ! !	34	63	35	29	29	48	43	53	21	23	20	45	25	498
	District			1. Lautem	2. Baucau	3. Viaueaue	4 Manatuto	5. Manufahi	6. Dili	7. Aileu	8. Ermera	9. Ainaro	10. Liquica	11. Bobonaro	12. Covalima	13. Ambino	Tota	2. Factors for Calibration		District		1. Lautem	2. Baucau	3. Vigueque	4. Manatuto	5. Manufahi	6. Dili	7. Aileu	8. Ermera	9. Ainaro	10 Liquica	11. Bobonaro	12. Covalima	13. Ambino	Total

Estimated Number of Post-Harvest Facility in East Timor (2)

3. Estimated Number of Post-Harvest Facility

		(ton/day)		0	0	0	0	0	38.5	0	310.7	0	77.9		0	0	428.2
	Coffee			0	0	0	0	0	77	0	451	0	63		0	0	602
Sheller	)	(Unit)							1-		4		•	_			)9
Pulper/Sheller	rn	(ton/day)		0	2.0	5.0	0	0	0	ö	1.0	0	0	0	1.2	0	9.2
	Corn	(Unit)		0	ဗ	13	0	0	0	0	က	0	0	0	13	0	32
lity	Others	<u> </u>		30	0	0	0	0	0	0	0	0	0	0	42	2	74
Storage Facility	Separate	Building		8	0	0	0	9	0	0	0	0	0	0	0	15	15
St	Inside	Home		40	73	34	29	30	49	4	39	21	23	47	44	21	490
ts)	Curing	(Unit/	sq.m.)	0	0	1/1,000	0	0	0	0	0	0	Ó	0	0	0	15,778 1/1,000
of Units or Plots)	Standing	Platform	(Unit)	0	56	1,221	0	0	551	0	7,166	0	2,750	4,034	0	0	15,778
	Concrete Yard	Private	(Plot)	64	5,296	.678	6,391	3,611	38	1,600	7,328	0	3,313	38	7,328	2,779	38,464
Drying Facility (No.	Concre	Public	(Plot)	8	2,419	0	0	9	7	0	13	0	0	0	353	0	2,806
Dry	Mat	(Units)		453	4,302	982'9	225	919	1,308	1,200	10,639	400	4,267	18,715	842	2,821	52,877
Mill	Capacity		1	4.7	1.8	27.2	5.4	18.6	က	0.5	3.4	0.5	0.5	47.3	4.6	3.2	120.7
Rice Mill	No. of	Unit		15	45	51	7	23	9	<del></del>	4	<del>-</del>	_	38	22	25	239
	District			1. Lautem	2. Baucau	3. Viqueque	4. Manatuto	5. Manufahi	6. Dili	7. Aileu	8. Ermera	9. Ainaro	10. Liquica	11. Bobonaro	12. Covalima	13. Ambino	Total

Source : Suco Survey Remarks : Standing Platform : Bamboo or wooden made bench/stand to protect post-harvest loss from animals, so called "Pangung untuk jemar"

Table H.4

District Wise Hand Tools Distribution under TFET

		ITA	table H.4	3		20011000	200		Mise Halld 100's Distribution allocal 11 E1			Unit : pieces
District	Benefi-				Nar	Jame and Qu	Quantity of H	Hand To	Tools		Total	Partner
	ciaries	Pick Axe	Hoe	Sickle	Shovel (	<b>Crow Bar Pitch Fork</b>	Pitch Fork	Saw (	Grass Knife Cow F	Plow Wheel Barrow	wo	
1. Lautem	330	<del></del>	330	330	330	330	330	0	0	0	0 1,650	
		0	0	0	0	0	0	0	0	0	0	
2. Baucau	1,677	0 /	1,677	1,669	1,677	1,890	1,669	35	1,000	5	106 10	DAA + Thaibatt
		0	902	1,669	736	1,890	200	35	1,000	2	9 0	
3. Viqueque	4,135	0 9	4,135	4,135		4,135	4,135	0	0	0	0 16,540	
,		0	0			0	0	0	0	0	0 0	
4. Manatuto	2,900	2,900	2,900	2,900	2	2,900	0	0	0	0	0 14,500	ETADEP
			0			0	0	0	0	0	0	
5. Manufahi	4,576	0	1,827	1,988		0	324	0	0	0	87 4,663	
		0	0	0		0	0	0	0	0	0 0	
6. Dili	1,143	1,143	1,143	1,143	Ţ	0	1,143	0	0	0 2	245 5,960	
		0	0	0	0	0	0	0	0	0	0 0	
7. Ailue	389	688 6	389	389	389	389	0	0	0	0 0	0 1,945	OIKOS
		389	389	389	389	389	0	0	0	0	0 1,945	
8. Ermera	1,301	1	1,305	0	0	1,301	0	155	1,209	0	0 5,119	5,119 World Vision
		1,149	1,305	0	0	1,301	0	155	1,209	0	0 5,119	
9. Ainaro	147	7 147	147	147		147	0	0	0	0	37 772	
		0	0	0	0	0	0	0	0	0	0 0	
10. Liquica	1,803	1,893	1,893	1,893	1,893	1,893	0	0	0	0	126 9,591	World Vision
		0	1,893	1,893		1,893	0	0	0	1	126 5,805	
11. Bobonaro	357	0	357	357	357	0	357	0	0	0	357 1,785	CMET
		0	357	357	357	0	357	0	0	0	0 1,428	
12. Covalima	1,041	0 1	803	811	810	0	801	0	0	7 0	719 3,944	3,944 DAA + PKF
		0	209	607	209	0	607	0	0	0	0 2,428	
13. Ambeno	355	9 0	355	355	355	355	355	0	0	0	0 1,775	DAA + PKF
		0	355	355	355	355	355	0	0	0	0 1,775	
Total	20,154	7,621	17,261	16,117	10,438	13,340	9,114	190	2,209	5 1,6	677 77,972	
			5,811	5,270	2,44	5,828	1,519	190	2,209	5 1	126 24,940	
V V (1 . 2 . 2	A MAFF											

Source: DAA, MAFF Remarks: Upper Column: Total requested by farmers, Lower Column: Delivered before the End of September, 2001

Table H.5 Hand Tools donated by China

No.	Description	Standard	Quantity
A. Agricul	tural Tools		
1	Sickle	S1202, 12"	1,200 pcs
2	Square toes steel shovel	2#	800 pcs
] 3	Hoe	3 lb	600 pcs
4	Iron Dustpan	28 x 28 x 63cm	400 pcs
5	Wood lift blank	S503 x 35 x 35cm	500 pcs
6	Drag Blank	80# 120cm	200 pcs
7	Axe	A60 11.2 lb	300 pcs
8	Loquat	F101/4G	300 pcs
	Pick axe	P401 6lb	650 pcs
B. Pestici	des		
1	Monosultap	90% WP	1,600 kg
2	Imidacloprid	[10% WP	900 kg
3	Prochloraz	25% EC	250 lit
4	Carbendazim & Triadimefon	40% WP	<b>25</b> 0 kg
Ę	Omethote	40% WP	2,500 kg
C. Other	Materials		
1	Concrte	425#, 50kg/bag	75,000 kg
2	Galvanized steel pipe	5″, 6m/piece	100 pcs
[ 3	Galvanized steel pipe	2.5″, 5.8m/piece	518 pcs
4	Iron thread	16#, 25kg/roll	150 kg
	Iron thread	14#, 50kg/roll	200 kg
(	i Irin thread	12#, 50kg/roll	150 kg
1	Mosquito set	twin	100,000 pcs

Source : Packing List

China Friendship Development International Engineering Design & Consultation Corporation

Date: May 18, 2001, Port of Dispatch: Xiangang, Port of Destination: Dili

Table H-6 SPARE PARTS FOR POWER TILLER AND IMPLEMENTS (Parts received from MAFF)

Serial No.	Parts No.	Parts Name	Quantity
1	14911-21050	Piston ring set	75 pcs
2	_	Crank pin metal set	30 pcs
3	14911-03310	Head gasket	30 pcs
4	14911-51010	Injection pump (complete)	5 pcs
5	_	High pressure pipe	10 pcs
6	15231-43560	Fuel filter	20 pcs
7	15231-43580	Cup, fuel filter	20 pcs
8	62735-66110	V-belt, driving (#78)	32 pcs
9	62735-17300	Rubber tire	20 pcs
10		Tube, rubber tire	20 pcs
11	10101-61110	Handle, starting	5 pcs
12	62735-42480	Wire, steering	60 pcs
13	62735-42110	Wire, main clutch	10 pcs
14	_	Rubber tire, trailer	10 pcs
15	_	Tube, trailer tire	10 pcs
16	14911-97010	V-belt, radiator	30 pcs
17	_	Injector	20 pcs
18	11154-22010	Connecting rod (complete)	10 pcs
19	14911-02310	Cylinder liner	10 pcs
20	62735-42890	Accelerator lever (complete)	10 pcs
21	19104-23010	Crankshaft	5 pcs
22	_	Bored nut pink	30 pcs
23	-	Rubber packing	30 pcs
24	14911-02350	O-ring liner set	30 pcs
25	09560-38558	Seal, oil	30 pcs
26	09550-25357	Seal, oil	30 pcs
27	62721-13270	Plate, drive	90 pcs
28	62735-17180	Seal, oil	60 pcs
29	62735-17270	Pin, wheel tube	60 pcs
30	62735-14140	Gear, 14	60 pcs
31	09501-74008	Seal, oil	30 pcs

# CERTIFICATE OF ACCEPTANCE

OF

#### SPARE PARTS FOR SIAM KUBOTA SK WALK=BEHIND TRACTOR

It is notified that spare parts for Siam Kubota SK Walk-Behind Tractor, consisting of the following breakdowns, supplied by the Timor Victory have been duly inspected and accepted at the

vard of Timor Victory, Dili on June 17, 2003 by JICA Pilot Project Study Team.

	i on June 17, 2003 by JICA Pilo			(1104)
Parts No.	Parts Name	Quantity	CIF/Diii	
		Required	Unit Price	Amount
1. Tractor SKP131			İ	
62735-13100	ASSY ARM, tension pulley	10	39.00	390.00
62735-13220	PULLEY, tension	10	8.50	85.00
08101-06203	BEARING, ball	20	5.00	100.00
09502-24011	SEAL, oil	10	1.80	18.00
04612-00170	CIR-CLIP, external	10	0.70	7.00
04611-00400	CIR-CLIP, internal	20	1.80	36.00
62735-13130	CAP, tension pulley	10	2.50	25.00
63633-13350	PLATE, friction	30	4.80	144.00
62721-13280	NUT	30	0.30	9.00
62735-66110	V-BELT #78	60	5.90	354.00
62231-22130	SHOE, brake	20	3.80	76.00
62735-42210	LEVER, speed change	20	21.00	420.00
62735-42220	COLLAR, speed change lever	20	1.00	20.00
62735-42230	SPRING 2, speed change lever	20	1.00	20.00
62735-42590	GRIP, lever	20	9.00	180.00
62735-42530	LEVER, steering clutch RH	20	8.00	160.00
62735-42890	LEVER, accelerator	20	5.00	100.00
62735-42830	WIRE, accelerator	[ 20	3.50	70.00
62735-42570	LEVER, steering clutch LH	20	8.50	170.00
14153-51235	BOLT	160	1.00	160.00
14156-50123	NUT	160	0.80	128.00
14312-50123	WASHER, spring	160	0.90	144.00
62721-13260	BRACKET	10	35.00	350.00
62735-17320	BOLT WHEEL HUB	20	2.00	40.00
64512-50120	WASHER, spring	20	1.00	20.00
62756-50120	NUT	20	1.20	24.00
2. Diesel Engine ET80				
10124-69020	ASSY LAMP	10	55.00	550.00
14911-02350	O-RING, liner	40	1.00	40.00
14911-03310	GASKET, head	20	5.00	100.00
14911-42013	ASSY PIPE, fuel 1	20	2.00	40.00
14911-51010	ASSY PUMP, injection	5	160.00	800.00
14911-53710	PIPE, injection	20	5.00	
14911-97010	BELT, fan	20	7.00	
14301-74323	PULLEY, tension	20	16.00	
14911-43513	BODY, fuel filter	20	18.00	
15231-43580	CUP, filter	20	4.50	90.00
14301-43650	O-RING, fuel filter	20		14.00
15231-43560	ELEMENT, filter	20		
	Total			5,850.00

Inspected and accepted by :

S. Tamura/Farm Machinery JICA Pilot Project Study Team

DELIVERY NOTE
OF
SPARE PARST FOR SIAM KUBOTA SK WALK-BEHIND TRACTOR
UNDER JICA PILOT PROJECT AT MANATUTO

Parts No.	Parts Name	Quantity	CIF (US	\$) – Dili
		Required	Unit Price	Amount
1. Tractor SKP131				
83-62735-131002	ASSY ARM, tension pulley	5	39.00	195.00
83-62735-132201	PULLEY, tension	5	8.50	42.50
83-08101-06203	BEARING, ball	10	5,00	50,00
83-09502-24011	SEAL, oil	5	1.80	9.00
83-04612-00170	CIR-CLIP, external	5	0.70	3.50
83-04611-00400	CIR-CLIP, internal	10	1.80	18.00
83-62735-13130	CAP, tension pulley	5	2.50	12.50
83-63633-133501	PLATE, friction	15	4.80	72.00
83-62721-132801	NUT	15	0.30	4.50
62735-66110	V-BELT #78	30	5.90	177.00
83-62231-221301	SHOE, brake	10	3.80	38.00
83-62735-422106	LEVER, speed change	10	21.00	210.00
83-62735-422202	COLLAR, speed change lever	10	1.00	10.00
83-62735-422301	SPRING 2, speed change lever	10	1.00	10.00
83-62735-425901	GRIP, lever	10	9.00	90.00
83-62735-425303	LEVER, steering clutch RH	10	8.00	80.00
83-62735-428903	LEVER, accelerator	10	5.00	50.00
62735-42830	WIRE, accelerator	10	3.50	35.00
83-62735-425703	LEVER, steering clutch LH	10	8.50	85.00
83-01053-51235	BOLT	80	1.00	80.00
83-02056-50120	NUT	80	0.80	64.00
81-04512-50120	WASHER, spring	80	0.90	72.00
2. Diesel Engine ET80				
81-14911-023501	O-RING, liner	20	1.00	20.00
81-14911-033102	GASKET, head	10	5.00	50.00
81-14911-420131	ASSY PIPE, fuel 1	10	2.00	20.00
81-14911-51010	ASSY PUMP, injection	3	160.00	480.00
81-14911-537101	PIPE, injection	10	5.00	50,00
81-IT021-97011	BELT, fan	10	7.00	70.00
81-14301-74323P	PULLEY, tension	10	16.00	160,00
81-14911-43513	BODY, fuel filter	10	18.00	180.00
81-IT021-43101	CUP, filter	10	4,50	45.00
81-14301-43651	O-RING, fuel filter	10	0.70	7.00
81-46100-01100	ELEMENT, filter	10	2.30	23.00
	Total			2,513.00

Received by:

Mr.

Manatuto District Agricultural Office

June 24, 2003

DELIVERY NOTE
OF
SPARE PARST FOR SIAM KUBOTA SK WALK-BEHIND TRACTOR
UNDER JICA PILOT PROJECT AT MANATUTO

Parts No.	Parts Name	Quantity	CIF (US	\$) – Dili
		Required	Unit Price	Amount
1. Tractor SKP131				
83-62735-131002	ASSY ARM, tension pulley	5	39.00	195.00
83-62735-132201	PULLEY, tension	5	8.50	42.50
83-08101-06203	BEARING, ball	10	5.00	50.00
83-09502-24011	SEAL, oil	5	1.80	9.00
83-04612-00170	CIR-CLIP, external	5	0.70	3.50
83-04611-00400	CIR-CLIP, internal	10	1.80	18.00
83-62735-13130	CAP, tension pulley	5	2.50	12.50
83-63633-133501	PLATE, friction	15	4.80	72.00
83-62721-132801	NUT	15	0.30	4.50
62735-66110	V-BELT #78	30	5.90	177.00
83-62231-221301	SHOE, brake	10	3.80	38,00
83-62735-422106	LEVER, speed change	10	21.00	210.00
83-62735-422202	COLLAR, speed change lever	10	1.00	10.00
83-62735-422301	SPRING 2, speed change lever	10	1.00	10.00
83-62735-425901	GRIP, lever	10	9.00	90.00
83-62735-425303	LEVER, steering clutch RH	10	8.00	80.00
83-62735-428903	LEVER, accelerator	10	5.00	50.00
62735-42830	WIRE, accelerator	10	3.50	35.00
83-62735425703	LEVER, steering clutch LH	10	8.50	85.00
83-01053-51235	BOLT	80	1.00	80.00
83-02056-50120	NUT	80	0.80	64.00
81-04512-50120	WASHER, spring	80	0.90	72.00
83-62721-132601	BRACKET	10	35.00	350.00
83-01053-51270	BOLT WHEEL HUB	20	2.00	40.00
83-02056-50120	WASHER, spring	20	1.00	20.00
81-14301-74323P	NUTS	20	1.20	24.00
2. Diesel Engine ET80				
81-10124-690201	ASSY LAMP	10	55.00	550,00
81-14911-023501	O-RING, liner	20	1.00	20.00
81-14911-033102	GASKET, head	10	5.00	50.00
81-14011-420131	ASSY PIPE, fuel 1	10	2.00	20.00
81-14911-51010	ASSY PUMP, injection	2	160.00	320.00
81-14911-537101	PIPE, injection	10	5.00	50.00
81-IT021-97011	BELT, fan	10	7.00	70.00
81-14301-74323P	PULLEY, tension	10	16.00	160.00
81-14911-43513	BODY, fuel filter	10	18.00	180.00
81-IT021-43101	CUP, filter	10	4.50	45.00
81-14301-43651	O-RING, fuel filter	10	0.70	
81-46100-01100	ELEMENT, filter	10	2.30	23.00
	Total			3,337.00

Received by:

Mr.

Baucau District Agricultural Office

June 24, 2003

Table H.10
RECORDS ON SPARE PARTS for KUBOTA TRACTOR SKP 131 & DIESEL ENGINE ET 80

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
, 4. 50 . 14	1 0.00 110.	,	Used Quantity and Date	
Piston Ring Set	14911-21050	75		
Crank Pin Metal		30		
	Ì			
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	ļ			
Head Gasket	14911-03310	30		
TIONA GASKOL				
		<u> </u>		
<del></del>	<del></del>			Page 1 of 11

Page 1 of 11

Parts Name Parts No. Original Quantity dan Tanggal Used Quantity and Date Injection Pump 14911–51010 5  High Pressure Pipe - 10	Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Injection Pump 14911-51010 5					
				Used Quantity and Date	
High Pressure Pipe – 10	Injection Pump	14911-51010	5		
High Pressure Pipe – 10					
High Pressure Pipe - 10					
High Pressure Pipe – 10					
High Pressure Pipe – 10					
High Pressure Pipe - 10					
High Pressure Pipe - 10					
High Pressure Pipe - 10					
High Pressure Pipe - 10					
High Pressure Pipe - 10					
High Pressure Pipe - 10			·		
High Pressure Pipe - 10					
High Pressure Pipe - 10					
High Pressure Pipe - 10					
	High Pressure Pipe	_	10		
	,				
Fuel Filter 15231-43560 20	Fuel Filter	15231-43560	20		
	1				
				,	Dago 2 of 1

Page 2 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
0 5 15%	15001 40500	00	Used Quantity and Date	
Cup, Fuel Filter	15231-43580	20		
V Dalk dairing (70)	6070F 66110	20		
V-Belt, driving (78)	62735-66110	32		
			·	Ì
Rubber Tire	62735-17300	20		
TODOC: THE	52,700 17000			
				Page 3 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
			Used Quantity and Date	
Tube, Rubber Tire	-	20		
		٠.		
Handle, Starting	10101-61110	5		
				·
Wire Steering	62735-42480	60		

Page 4 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
Farts Name	Parts No.	Original Quartity		Nemanieu
140 14 1 01 1 1	00705 40110	10	Used Quantity and Date	
Wire, Main Clutch	62735-42110	10		
	i i			
	:			
Rubber Tire, Trailer		10		
Nubber tite, Italiei		10		
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			,	
Tube, Trailer Tire	-	10		
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Page 5 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
V-Belt, Radiator	14911 <del>-</del> 97010	30	Used Quantity and Date	
V Beit, Radiator	14311 37010	30		
Injector		20		
		<del></del>		
				:
Connection Rod	11154-22010	10		
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Page 6 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
0.35 115	14011 00010	10	Used Quantity and Date	
Cylinder Liner	14911-02310	10		
Accelerator Lever	62735-42890	10		
				•
Crankshaft	19104-23010	5	,	
				-
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		l	•	

Page 7 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
Parts Name	Farts No.	Original Quarticity	Used Quantity and Date	(10/110/110/0
Bored Nut Pink		30	Bood Quarterly and Butte	
Borea Nut Filik		00		
1				
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1			<u> </u>	
			<b>{</b>	]
Rubber Packing	_	30		
			+	
			<u> </u>	
O-Ring Liner	14911-02350	30		
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	<u> </u>	<u></u>		Page 8 of 11

Page 8 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
Seal Oil	09560-38558	30	Used Quantity and Date	
Sear Oil	09300 30330	30		
	1			
·				
Seal Oil	09550-25357	30		
			,	
Plate Drive	62721-13270	90		
				Page 9 of 11

Page 9 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
i ai co ivallic	i ai to ivo.	Original dedactions	Used Quantity and Date	110111011100
Seal Oil	62735-17180	60		
		·		
Pin Wheel Tube	62735-17270	60		
Gear 14	62735-14140	60		

Page 10 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
			Used Quantity and Date	
Seal Oil	09501-74008	30	,	
1				

Page 11 of 11

Table H.11
RECORDS ON SPARE PARTS for KUBOTA TRACTOR SKP 131 & DIESEL ENGINE ET 80

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
Parts Name	Parts No.	Original Quartity	Used Quantity and Date	Remained
1 Two sters CVD 121		<del></del> -	Osed Quartity and Date	
1. Tractor SKP 131	00 00705 101000	5		
_	83-62735-131002	9		
pulley				
				i
	1			
PULLEY, tension	83-62735-132201	5		
1	1	{		
İ				
		i		
BEARING, ball	83-08101-06203	10		
BEARING, Dall	03 08101-00203	''		
			1	
			1	

Page 1 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity		Remained
l ares realise	1 21 03 140.	Original danies	Used Quantity and Date	
SEAL, oil	83-09502-24011	5		
		_		
CRI-CLIP, external	83-04612-00170	5		
CRI-CLIP, internal	83-04611-00400	10		
		. 5		
				Da - 2 - 6 1 1

Page 2 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity		Remained
r arcs rvaille	Farts No.	Original Quarterly	Used Quantity and Date	rtemanied
CAP, tension pulley	83-04611-13130	5	Good Gadinary and Date	
OAP, tension pulley	05 04011 15150			
		1		
				:
				:
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	,			
PLATE, friction	83-63633-133501	15		
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NU IT	00 00704 100001	1		
NUT	83-62721-132801	15		
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Page 3 of 11

Name Daves	N. D	Jumlah Semula	Jumlah yang dipakai	Sisa
Nama Barang	No. Barang		Jan Tananal	Remained
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
			Used Quantity and Date	
V-BELT #78	62735-66110	30		
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SHOE, brake	83-62231-221301	10		
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LEVER, speed chang	83-62735-422106	10		
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Page 4 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal Used Quantity and Date	Remained
COLLAR, speed change lever	83-62735422202	10		
SPRING 2, speed	83-62735-422301	10		
change lever				
GROP, lever	83-62735-425901	10		

Page 5 of 11

Nama Barana	N- D	lumalah Samula	lumlah yang dinaksi	Sisa
Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	
Parts Name	Parts No.	Original Quantity		Remained
LEVED 1 :	00 00705 405000	10	Used Quantity and Date	
LEVER, steering	83-62735-425303	10		
clutch RH				
	,			
LEVER, accelerator	83-62735-428903	10		
	,-			
				,
WIRE, accelerator	62735-42830	10		
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Page 6 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
			Used Quantity and Date	
LEVER, steering clutch LH	83-62735-425703	10	Osed Quantity and Date	
BOLT	83-01053	80		
NUT	83-02056	80		

Page 7 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
			Used Quantity and Date	
WASHER, spring	81-04512-50120	80		
2. Diesel Engine ETS	30   81-14911-023501	20		
O-RING, liner				
GASKET, head	81-14911-033102	IU		

Page 8 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Ivania Darang				Remained
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
			Used Quantity and Date	
ASSY PIPE, fuel 1	81-14911-420131	10		
ł				
ASSY PUMP,	81-14911-51010	3		
	01-14811-01010	٥		1
injection				
PIPE, injection	81-14911-537101	10		
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Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
Farts Name	Parts No.	Original Guardicy	Used Quantity and Date	1 terriairiea
DELT for	81-iT021-97011	10	OSCU Guarreity and Date	
BELT, fan	01-11021-97011	'0		
	İ			
PULLEY, tension	81-143-74323P	10	1.77.10.88.	
FOLLET, Cension	01 140 74020	"		
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BODY, fuel filter	81-14911-43513	10		
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				Page 10 of 11

Page 10 of 11

Nama Barang	No. Barang	Jumlah Semula	Jumlah yang dipakai	Sisa
Parts Name	Parts No.	Original Quantity	dan Tanggal	Remained
Faits Name	Faits No.	Original dadricity	Used Quantity and Date	(101110111011
CUP, filter	81-iT021-43101	10	Cood Gadilary and Page	<del></del>
Cor, inter	01 11021 40101		j	
	·			
				:
O-RING, fuel filter	81-14301-43651	10		
			<u> </u>	
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ELEMENT, filter	81-46100-01100	10		
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1				
				Page 11 of 11

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Table H-12 DAFTAR P

# DAFTAR PEMAKAIAN VAHAN BAKAR FUEL CONSUMPTION RECORDS

	 	 	 ,	 	 ·
Sisa Remained					
Paraf Signature					
Oleh Siapa By whom					
Liter yang dipakai Liter Used					
Tanggal Date					
Liter Semula Original Liter					
No. Drum Drum No.					

To whom it may concern

# CERTIFICATE OF ACCEPTANCE OF A FULL SET OF MOBILE RICE MILLING UNIT

It is notified that a full set of Mobile Rice Milling Unit, consisting of the following components in accordance with the terms and conditions signed between the JICA Pilot Project Team and the Supplier Satake Corporation has been duly inspected and accepted at the former Mobile Brigade Motor Pool, Manatuto, Manatuto District, East Timor on June 14 (Sat), 2003 by JICA Pilot Project Team.

Serial No	Description	Quantity
1.	Rice Milling Unit SB 10	1 unit
2.	Diesel Engine	1 unit
3.	Common Machine Stand	1 unit
4.	Spare Parts for SB 10	1 lot
4.1	Milling roller (0251010)	l piece
4.2	Screw iron rtoll (0251011)	l piece
4.3	Milling screen (RB0309)	10 pieces
4.4	Rubber roll (05040882)	24 pieces
5.	Spare Parts for Diesel Engine R-220H	1 lot
5.1	Fuel filter element	1 piece
5.2	Piston ring set	1 piece
5.3	Cylinder head gasket	2 pieces
5.4	Nozzle body with nozzle valve	l piece
5.5	Primary fuel filter	2 pieces
5.6	Tools and Spare Parts	1 lot
5.6.1	Valve spring outer	l piece
5.6.2	Valve spring inner	I piece
5.6.3	Valve collect	2 pieces
5.6.4	Fine fuel filter	1
5.6.5	Primary fuel filter	1
5.6.6	Piston ring	1 set
5.6.7	Gasket cylinder head	l piece

5.6.8	Gasket exhaust pipe	1 piece
5.6.9	Nozzle	1 piece
5.6.10	Valve guide	2 pieces
5.6.11	Element pump	1 piece
5.6.12	O ring linner	2 pieces
5.6.13	Valve in	l piece
5.6.14	Valve ex	1 piece
5.6.15	Bearing connection rod	1 set
5.6.16	Fuel pipe injection	1 piece
5.6.17	Oil seal crank shaft	1 piece
5.6.18	Oil seal shaft starting	1 piece
5.6.19	Starting handle	l piece
5.6.20	V pulley	1 piece
5.6.21	Feeler gauge for valve clearance	1 piece
5.6.22	Tool for dismantling fly wheel	1 piece
5.6.23	Double socket spanner	l piece
5.6.24	Double spanner 13 – 16	1 piece
5.6.25	Double spanner 18 – 21	1 piece
5.6.26	Fly wheel spanner	1 piece
5.6.27	Cylinder head nut spanner	1 piece
5.6.28	Valve dismantling tool	1 piece
5.6.29	Valve lapping tool	1 piece
5.6.30	Pasta	1 piece
5.6.31	Screw driver (-)	1 piece
5.6.32	Bolt 10 x 85	2 pieces
5.6.33	Bolt 8 x 60	2 pieces
5.6.34	Operation manual	1 copy
5.6.35	Tool box	1 unit
6.	ving belt	1 lot
6.1	Perforated belt A type FD1500A	1 piece
6.2	Hexagonal belt (green) FD152111	1 piece

Inspected and accepted by:

JICA Pilot Project Team

S. Tamura/Farm Machinery

## Table H.14 IURAN "KONTRIBUSI" PEMAKAIAN MESIN PENGOLAH PERTANIAN OLEH

# PETANI PADA PROYEK PERCOBAAN (Efektif selama periode 1 January ~ 30 Juni, 2003)

Unit: US\$/ha

	Sistem Pemakaian A	Sistem Pemakaian B	Sistem Pemakaian C				
	(menetapkan penuh	(menetapkan	(Tidak menetapkan				
	dengan Operator dan	sebagian dengan	Bahan baker dan				
	bahan baker)	bahan baker & tanpa	Operator)				
		Operator)					
Iuran oleh Petani	30.00	23.00	8.00				

#### Keterangan:

- 1. Mesin yang dipakai 1) Siam Kubota Model SKP131 disediakan dengan alat pembajakan (Liku), alat pengunkit dan pemerataan serta roda besi untuk pelumpuran.
- 2. Jumlah mesin yang dipakai dan operator yang tersedia : 2 units dan 4 orang operators
- 3. Kontrak sudah harus dtukar sebelum dibawa keluar untuk dikerjakan
- 4. Daerah Lahan yang akan ditanam diukur secara benar sebelum memulai proses pembajakan
- 5. Tarif diatas berdasarkan system pembagian biaya (Cost Sharing) sebagai pengganti biaya semula ("instead of cost recovery")

### Table H-15

### KESEPAKATAN

### Pada

### KONTRAK PEMBAJAKAN

Kontrak Pembajakan di bawah JICA	Pilot Project disetujui dan dilaksanakan antara		
kelompok Tani Haburas Manatuto, diwakili oleh	Sekretaris, dan anggota petani		
Bapak / ibu			
2003, untuk persetujuan membawa	keluar surat pembajakan lahan oleh petugas		
Penyediaan dengan berdasarkan kondisi - kondis	i berikut :		
1. Mesin yang akan dipakai : Traktar Siam Kubot	a (No. Mesin JK) dilengkapi dengan		
- · ·			
	_		
Area Sebenamya	:ha		
3. Biaya pembajakan : US\$/ha dan Tota	ıl Keseluruhan US\$		
Termasuk (1) Operator, (2)	Bahan Bakar, (3) Mesin dan Biaya administrasi		
0 hanya menandai.			
4. Metode pembayaran dari biaya pembajakan : (	1) Tunai, (2) Hasil panen (Padi), atau (3) Tunai dan		
Hasil Panen )Padi)			
(Tunai US\$ + Padi	_ kg disamakan dengan US\$)		
5. Waktu pembayaran : Sebelum,	, 2003		
Dua (2) copi harus dibagikan, yaitu satu dipegang	, oleh Sekretaris dan satunya lagi oleh petani,		
Efektif hingga pembayaran selesai.			
Ditanda tangani oleh :	Ditanda tangani oleh :		
Nama : Bapak	Nama : Bapak		
Sekretaris Haburas Manatuto	Desa:		
Saksi:			
Nama : Bapak			

### Table H.16

### PERJANJIAN KONTRAK MENGENAI MESIN PERONTOK

Kontrak mengenai mesin perontok dibawah	
perjanjian dan yang dilaksanakan antara Hab Bpk. Jose Pires, dan para anggota petani/buk	•
dari Des	an anggota petam Dpk/16ti a
Tanggal Hari Bulan	a, 2003, untu mengadakan
persetujuan surat-surat mengenai mesin pero	ntok padi oleh para petani persiapan megenai
kondisi-kondisi dasar sebagai berikut:	
1. Mesin yang digunakan: Model AGR	OINDO TPA 1000, No. Mesin
menyediakan dengan bahan bakar da	· · · · · · · · · · · · · · · · · · ·
2. Ladan sawah: Aria nominal:	
Aria Aktual :	ha
3. Volumi mesin perontok padi :	kg
	/30kg/karung x karung-karung)
<ol> <li>Metodi pembayaran dari harga mesin</li> <li>Kontan/Tunai</li> </ol>	peronok:
(2) Hasil panen padi	
(3) Tunai dan hasil panen padi	
6. Waktu pembayaran : Sehari sebelum_	Bulan2003
D (0)1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 1101
adalah berlaku sampai masa pembayaran jel	nerima oleh Sekertasi dan para tepani lainnya, os
adalah benaku sampai masa pembayaian jer	as.
Tandatangan Oleh	Tandatangan Oleh
	<del></del> -
Nama: Bpk Sekertasi Jose Pires,	Nama : Bpk/Ibu
TTalaana Naasatata	Dana
Haburas Manatuto	Desa :
Saksimata:	

### Table H.17

### KONTRAK KESEPAKATAN MENGGANAI PENGGILINGAN PADI

Kontrak penggilingan yang di bawa kesepakatan bersama dan dilaksana			
Bpk. Jose Pires da Silva, dan para			
dari desa, tang			
kesepakatan/persetujuan yang diura dan penetapan menganai kondisi da	aikan dalam s	urat-surat para	petani penggilingan padi,
Mesin yang digunakan : SATAK dijalankan oleh Ratna Diesel Mo     Padi yang digilin : Variasi	otor Model <b>R</b> -		Beras ( Model : SB 10D )
		Normal	Rusak
Kadar Lemba	ıb	% dalam da	ısar basi
3 Horse penseilingen HSS	-sak atau to	tall	kg jumlah masukan padi
3. Harga penggilingan :US\$termasuk (1) operator, (2) semua administrasi	. pembutuhan	bahan bakar d	an (3) mesin dan biaya
4. Kulit padi : (1) bawah kembali (2 ( sama dengan US\$	2) pembuang	an (3) pembaya	aran kompensasi
5. Medote pembayaran dari harga p	enggilingan	(1) Biava. (2)	padi atau beras. (3)
biaya dan hasil panen padi atau beras kg sama d	oeras (biaya U lengan US\$	JS\$	+ hasil panen padi atau
sama dengan kg US\$	)		
6. Waktu pembayaran : Sebelum,			, 2003
Pembuatan dua (2) cetak copy, sati diberikan para anggota-anggota per pembayaran.	-	_	
Tandatangani oleh		Ditandatanga	ni dengan
Nama: Bpk. Jose Pires da Silva Manager, Haburas Manatuto	)	Nama: Bpk. Desa:	
Disaksikan oleh			

### Table H-18

### JICA PILOT PROJECT AT MANATUTO

### Tes Petunjuk Lapangan Mesin Perontok: Model: Agrindo TPA 1000

Deskripsi	Hasil Petunjuk				
	Trial 1	Trial 2	Trial 3	Trial 4	Rata-Rata
A Kondisi padi					
1.Jenis bibit					
2.Jerami-Kernel Ratio					
3.Jumlah kelembahan					
4.Panjang jerami					
5.Cara pengeringan sebelum merontok					
B. Petunjuk Lapangan			,		
1.Komponen kecepatan(rata-rata rpm)					
1.1.Drum					
1.2.Peniupan				i i	
2.Peniupan kecepatan udara (m/sec)					
3.Level kebisingan					
4.Penggunaan bahan bakar (lit/jam)			·		
5.Kapasitas merontok(kg/jam)					
5.1.Masukan					
5.2.Hasil produksi					
6.Murni					
7.Pendapatan perontok				i	
8.Kerugian peniupan		İ			
9.Kerugian pemisahan				'	
10.Total kerugian merontok					
C. Laboratori analisis butir padi					
1.Keretakan		1			
1.1.Sebelum merontok					
1.2.Sesudah merontok				ļ	
2.Jumlah bersih dari keretakan butir padi					
D. Keterangan					

Tanggal Tes Dan Waktu	
Nama petani	
Kondisi cuaca (Temperatur & Lembab)	
Pemeriksaan	

### Table H.19 JICA PILOT PROJECT AT MANATUTO

# FIELD PERFORMANCE TEST MOBILE RICE MILLING UNIT: SATAKE SB 10D

Test No. 1

	Description	· <del>· ·</del>	Test Results	
		Trial 1	Trial 2	Average
A.	Intake Paddy Conditions			
1.	Variety	Membrane		
2.	Moisture content (% in weight)	Average 16.1		
3.	Cracked kernels (%)			ļ
4.	Chalky and immature paddy (%)			
5.	Red rice (%)			
6.	Purity (%)			
B.	Milling Test			
1.	Weight of input (kg)	82.0		
2.	Weight of milled rice (kg)	53.0		
3.	Weight of husk, immature paddy &	29.0		
	bran (kg)			
4.	Milling recovery (%)	64.6		
5.	Hours required (min)	13.00		1
6.	Intake capacity (kg/hr-paddy)	378.46		
7.	Output capacity (kg/hr-white rice)	244.49		
8.	Fuel consumption (lit)	0.56		
9.	Fuel consumption (lit/hr)	2.58		
C.	Grain Analysis			
1.	Hulling coefficient			
2.	Coefficient of wholeness			
3.	Hulling efficiency (%)			
4.	Head rice recovery (%)			
5.	Broken grains			
6.	Binlid			

Page 1 of 2

D. Speed of Component	S			
1. Engine	without load			
	with load			
2. Polisher drive	without load			
	with load	900		
3. Huller main shaft	without load			
	with load	La Contraction of the Contractio		
4. Huller aspirator	without load			
	with load			
5. Bran suction blower	without load			
	with load			
E. Noise Level (db)				
F. Remarks		Too small quar	atity for colle	cting practical
		data.		
	,	ļ		
ļ				

Test Date	July 5, 2003										
Location of Paddy Field	MB warehouse/Manatuto										
Farmer's Name	Mr. Jose Pires da Silva/Manager of Haburas Manatuto										
Weather Conditions	30.5℃ & 68% at a.m.11:00										
Tester	Mr. Tamura/Mr. Elias										

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Principle Data Recorded in Land Preparation by Power Tiller

Power Tiller used: Siam Kubota SKP131

Table H.20

											_												_				_
Machine	Š.		12.1 JK-010		6 JK-010			19.1 JK-010				7.7 JK-008				10.4 JK-008				9.4 JK-008				20.7 JK-010			
Conversion per ha	Fuel	Consumption	12.1		9			19.1				7.7				10.4								20.7			
Conversi	Hour	Required	20,29″		7'38″			44'27"				10,38				16'26″				13'41″				35'43"			
ual	Fuel	Consumption (liter)	1.00		02'0			0.86				0.64				0.74		•		0.63				1.30			
Actual	Hour	Required	1,42″		0.38			2,00″		•		0,23				1,10		•		0,22,				2,15″			
Level of	Operator	Skill	"A"		"A"			"C"				"A"				ຼຸດ ູ				, , ,			•	ຼຸ້ວ້			
Works &	Contract	Туре	Plowing		Puddling			Plowing				Puddling				Plowing				Plowing				Plowing			
Land Owner			Mr. Sebastiano		Mr.	Sebastiano		Mr.	Sebastiano			Mr.	Sebastiano			Mr.	Sebastiano				Sebastiano			0.063 Mr.	Sebastiano	<del></del>	
Area (ha)			0.083		0.083 Mr.			0.045 Mr.				0.083 Mr				0.071 Mr.				0.067				0.063			
Location			31°C Demo Farm 62% Seedbed	A-4	31°C Demo Farm	53% Seedbed	A-4	31°C Demo Farm	53% Seedbed	A-5-1		31°C Demo Farm	53% Seedbed	A-4		31°C Demo Farm	A-7			31°C Demo Farm	53% A-8			32°C Demo Farm	55% A-10		
Weather	Condition		31°C 62%		31,0	53%		31°C	53%			31°C	23%			31,0	23%			31,0	53%				25%		
Date &	Time		January 27, '03	a.m.10.18 a.m.12:00	2 January	28, '03	a.m.9:20 p.m.9:58	January	28, '03	a.m.10:52	p.m.12.52	4 January	28, '03	a.m.10:10	a.m.11:07	5 January	28, '03	a.m.11:25	p.m.12:35	6 January	28, '03	p.m.15:37	p.m.16:32	January	29, '03	a.m.11:05	p.m.13:20
Serial	Š.		1		2			3				4				5				9				<u></u>			1

Principle Data Recorded in Land Preparation by Power Tiller

Machine	Š.		n.a. JK-010		000	9.4 JR-008			8.4 JK-008				15.6 JK-010				28.8 JK-010		15.9 JK-010				40.0 JK-008			
Conversion per ha	Fuel	Consumption	n.a.		* 0	9.4	-		8.4				15.6				28.8		15.9				40.0 ∩			
Conversi	Hour	Required	21,05″		10,50	13.95			11,52″			**	45,28				20'50″		16'10"				39,20″		•	
ual	Fuel	Consumption (liter)	п.а.		0	0.78			0.38			1	0.45				1.50		1.03				1.00			
Actual	Hour	Required	3,30,,		"oo; t	60.1			0.32			*	1,20				1,02		1,03″				29″			
Level of	Operator	Skii	"D"		"""	n			C				ွဲ				"c,		"C"				ွိပ			
Works &		Туре	Plowing		-	Puddling			Puddling				Plowing				Plowing		Plowing				Plowing			
Land Owner				Eusebio			Sepasnano			Sevastinano				Benjamine			Mr.	Sebastiano	Mr.	Sebastiano				Sebastiano		
Area (ha)			0.166			0.083			0.045				0.029				0.052		 0.065				0.025			
Location			30°C Contract	52% Farmer	L (	33°C Demo Farm	25% A-4		32°C Demo Farm	55% Seedbed	A-5-1		33°C Contract	53% Farmer			33°C Demo Farm	B-6	36°C Demo	55% Farm	A-6-1		36°C Demo	55% Farm	A-6-2	
Weather	Condition		30,00	25%	0000	33,0	05% 8		32°C	25%			33°C	53%			33,0	52%	36°C	25%			38,0	25%		
Date &			January	30, '03 a.m.9:41	p.m.13:11	9 January	30, 03 2 m 10:36	a.m.11:45	10 January	30, '03	p.m.14:13	p.m.14:45	11 January	31, 03	p.m.13:18	p.m.14:34	12 February	5, 703	13 February	6, '03	a.m.8:55	a.m.9:58	14 February	6, '03	a.m.10:00	a.m.10:59
Serial	Š.		8		í	<u> </u>			10				-				12		 13				14			

Principle Data Recorded in Land Preparation by Power Tiller

Machine	No.	33.4 JK-010	43.9 JK-010	3.9 JK-008	3.6 JK-008	13.0 JK-010	JK-008	1
Conversion per ha	Fuel Consumption	33.4	43.9 ,	3.9	3.6	13.0 ,	n.a.	1
Conversi	Hour Required	22'38″	76'56″	6'51″	6.58	27'28″	23'43"	12'07″
ual	Fuel Consumption (liter)	1.40	0.57	0.30	0.25	0.70	n.a.	I
Actual	Hour Required (	57″	1,00″	0.32″	0.28	1'29″	1,51″	45″
Level of	Operator Skill	ပုံ	ູ້ວູ	"B"	ູ້ວູ	"c"	"o"	"A"
Works &	Contract Type	Plowing	Plowing	Puddling	Puddling	Plowing	Plowing	Rencah 16 heads & 4 keepers
Land Owner		Mr. Sebastiano	Mr. Sebastiano	Mr. Sebastiano	Mr. Sebastiano	Mr. Sebastiano	Mr. Sebastiani	n,a.
Area (ha)		0.042	0.013	0.078	0.071	0.054	0.078	0.062
Location		6°C Demo 55% Farm A-9	36°C Demo Farm 55% A-2	36°C Demo Farm 55% B-9	35°C Demo Farm 54% A-7	34°C Demo Farm 53% B-2	Demo Farm B-9	36°C Beside 55% Demo Farm
Weather	Condition	36°C Demo 55% Farm A-9					n.a.	36°C 55%
Date &		February 6, '03 a.m.10:02 a.m.10:59	16 February 6, '03 a.m.11:35 p.m.12:35	17 February 6, '03 p.m.12:01 p.m.12:33	18 February 7, '03 a.m.11:58 p.m.12:26	19 February 7, '03 a.m.10:11 a.m.11:40	20 February 5, '03	21 February 6, '03 a.m.10:30 a.m.11:15
Serial	o S	15	16	17	18	19	20	21

### Table H-21

# CONTRACT THRESHING RESULTS PORTABLE RICE THRESHER: AGRINDO TPA 1000

Description	Results				
	Lot 1	Lot 2	Lot 3	Total	
A. Conditions of Paddy					
1, Variety	IR64	IR64	IR64	IR64	
2. Straw-Kernel Ratio				1:0.68	
3. Moisture Content (% in weight)	<u> </u>			Max. 20.6	
				Min. 17.6	
				Av. 18.0	
4. Straw Length (mm)				Max. 640	
				Min. 330	
				Av. 440	
5. Drying Method before Threshing				On field	
B. Field Performance					
6. Threshing Drum Speed (average rpm)				580	
7. Fuel Consumption (liter/hour)				n.a.	
8. Threshing Time	2.07'	2.10'	2.08'	6.25'	
9. Threshing Capacity – Intake (kg)	732.0	546.4	725.5	2,003.9	
10. Threshing Capacity – Intake (kg/hr)	346.38	252,15	340.13	312.28	
11. Threshing Capacity - Output (kg)				1,362.3	
12. Threshing Capacity - Output (kg/hr)				212.3	
C. Remarks	(1) No. of bundles : 323, Average 6.20kg/bundle				
	(2) Output	t Grain : 53 s	acks, Averag	e 25.7/sack	
	(3) Harves	st Area: 0.28	ha		
	(4)Yield:	4.8 ton/ha			
	(5) Poor separation performance				
Test Date	June 16, 17 & 18, 2003, Total 3 days				
Location	Down stre	am of Laclo	Irrigation Ar	ea	
Weather Conditions	Cloudy/Fi	ne Max. 34°0	C & 70%		
Farmer's Name	Mr. Domingos				
Tester	Mr. Tamu	ra/Mr. Erias			

# CONTRACT THRESHING RESULTS PORTABLE RICE THRESHER: AGRINDO TPA 1000

Description	Results				
	Lot I	Lot 2	Lot 3	Total	
A. Conditions of Paddy					
1, Variety	Dinas	Dinas		Dinas	
2. Straw-Kernel Ratio				1:0.617	
3. Moisture Content (% in weight)				Max 16.6	
				Min 10.9	
				Av 13.8	
4. Straw Length (mm)				Max 570	
				Min 320	
				Av 470	
5. Drying Method before Threshing				On Field	
B. Field Performance				** ***	
6. Threshing Drum Speed (average rpm)	635	635		635	
7. Threshing Time	3.08'	3.54°		7.02'	
8. Fuel Consumption (liter)	3.0	3.1		6.1	
9. Fuel Consumption Rate (liter/hr)	0.958	0.795		0.867	
10. Threshing Capacity – Intake (kg)	1,058.0	1,510.6		2,568.6	
11. Threshing Capacity – Intake (kg/hr)	337.70	387,33		365.22	
12. Threshing Capacity – Output (kg)				1,584.8	
13. Threshing Capacity – Output (kg/hr)				225.34	
C. Remarks	(1) Harves	ted Area: 34	x 168m = 0	.5712ha	
	(2) Yield:	2.77 ton/ha			
	(3) Output	: 53 sacks, 2	9.9kg/sack		
	(4) All har	vest for fami	ly consumpti	on	
Test Date	June 23 & 24, 2003, Total 2 days				
Location	Inkelo, beside demonstration farm				
Weather Conditions	Fine 28°C & 74% (June 23 a.m. 9:00)				
Farmer's Name	Mr. Sebastiao Da Silva				
Tester	Mr. Tamur	a/Mr. Erias			

# CONTRACT THRESHING RESULTS PORTABLE RICE THRESHER : AGRINDO TPA 1000

Description	Results				
	Lot 1	Lot 2	Lot 3	Total	
A. Conditions of Paddy					
1, Variety	Dinas	Dinas		Dinas	
2. Straw-Kernel Ratio				1:0.685	
3. Moisture Content (% in weight)				Av 13.9	
4. Straw Length (mm)		 		Max 590	
				Min 220	
				Av 490	
5. Drying Method before Threshing				On Field	
B. Field Performance	İ				
6. Threshing Drum Speed (average rpm)	600	600		600	
7. Threshing Time	1.55'	4.10'		6.05	
8. Fuel Consumption (liter)				6.0	
9. Fuel Consumption Rate (liter/hr)				0.986	
10. Threshing Capacity – Intake (kg)	564.8	1,075.4		1,640.2	
11. Threshing Capacity - Intake (kg/hr)	294.63	258.1		269.64	
12. Threshing Capacity – Output (kg)				1,122.8	
13. Threshing Capacity – Output (kg/hr)				184.58	
C. Remarks	(1) Harvested Area: 0.365 (6 blocks)				
	(2) Yield:	3.73 ton/ha i	ncluding foo	t threshing	
	(3) Output	: 39 sacks, 2	9.55kg/sack		
	(4) Foot th	reshing 240k	g/8 sacks		
Test Date	June 24 & 25, 2003, total 2 days				
Location	Near Demonstration Farm				
Weather Conditions	Fine 28°C, 62% (June 24 p.m.4:00)				
	Fine 30°C, 60% (June 25 a.m.10:00)				
Farmer's Name Mr. Fransico Preto (Non-member)					
Tester	Mr. Tamui	a/Mr. Erias			

# CONTRACT THRESHING RESULTS PORTABLE RICE THRESHER: AGRINDO TPA 1000

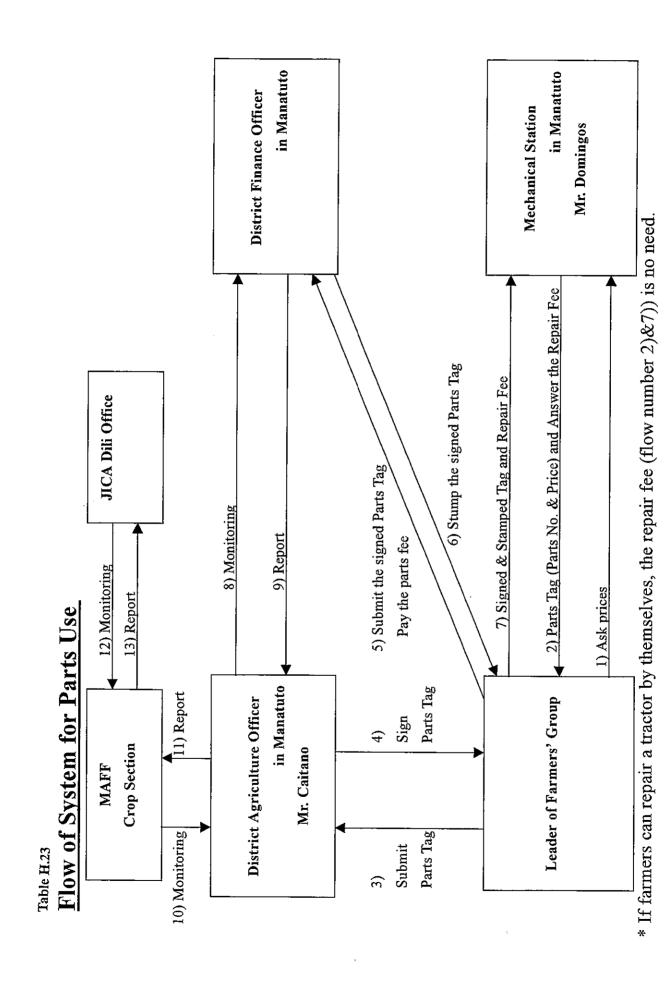
Description		Re	esults		
	Lot 1	Lot 2	Lot 3	Total	
A. Conditions of Paddy		1 1 1 1 1 1			
1, Variety	Dinas	Dinas		Dinas	
2. Straw-Kernel Ratio				1:0.806	
3. Moisture Content (% in weight)				Av 14.2	
4. Straw Length (mm)				-	
5. Drying Method before Threshing				- On Field	
B. Field Performance					
6. Threshing Drum Speed (average rpm)	600	600		600	
7. Threshing Time	1.46'	4.45'		6.31°	
8. Fuel Consumption (liter)				4.16	
9. Fuel Consumption Rate (liter/hr)				0.638	
10. Threshing Capacity - Intake (kg)	534.6	1,266.4		1,801.0	
11. Threshing Capacity – Intake (kg/hr)	302.5	266.6		276.4	
12. Threshing Capacity - Output (kg)				1,443.5	
13. Threshing Capacity - Output (kg/hr)				221.50	
C. Remarks	(1) Harves	sted Area: 0.	41ha		
	(2) Yield:	3.52 ton/ha			
	(3) Output	: 46 sacks, 3	1.38kg/sack		
	(4) Paddy	Sale Price : U	JS\$0.10/kg		
	(5) White	Rice Price : U	JS\$0.50/kg		
Test Date	June 25 & 26, 2003, total 2 days				
Location	Near Demonstration Farm				
Weather Conditions Fine					
Farmer's Name	Mr. Jose Pires da Silva				
Tester	Mr. Tamu	ra/Mr. Erias			

# Table H.22 EQUIPMENT LIST PROVIDED FOR FARM MECHANIZATION UNDER JICA PILOT PROJECT

Serial	Name of Equipment	Q'ty	Standard
No.	Walk-Behind Tractor	2 units	Kubota, together with implement of plow, puddling wheels, puddling rake and rotor, Hiring from DAO
1.	Spare Parts for Walk-Behind Tractor	1 lot	Details as shown in separate sheet
2.	Thresher	2 units	270 – 370kg-Intake Paddy/hr with Honda GX 240 Gasoline Engine Portable
3.	Rice Mill	1 unit	Mobile, 650 – 750kg/hr – Intake Paddy with RATNA 20 Hp Diesel Engine
4.	Hand Digital Tachometer (NIDEC-SHIMPO CORPORATION)	1 unit	1~25,000rpm, 5 digits 1.5V AA x 3 pcs, 137 x 74 φ x32mm 200g with batteries Accessories: 3pcs dry cell batteries, 2pcs cones, 1 pc funnel, 1pc surface speed adaptor 100mm
5.	Grain Moisture Tester (KETT ELECTRIC LABORATORY)	1 unit	Measuring Principle: Electric Resistance Indication: Digital display Battery: 4 pcs x 1.5V AA Dimensions: 164 x 94 x 65mm Accessories: 2pcs sampling tray, 1pc brush, 1pc spoon with tweezers, 1pc rice husker, 1pc carrying case
6.	Platform Scale (DELUXE KAMAJAYA) TIMBANGAN SENTISIMAL) Made in Indonesia		Capacity: 300kg Minimum Graduation: 1kg Sensitivity: 100gr Class: III

Serial	Name of Equipment	Q'ty	Standard
No.			
			Accessories: Hanging Pan, 100kg,
			50kg, 20kg, 10kg and 5kg weight
7.	Top Pan Scale	1 unit	Capacity: 10kg
	(Five Goats, Made in China)		Graduation: 50gr
8.	Fuel Measuring Tool	2 pieces	500cc and 1,250cc with graduation
9.	Funnel	1 piece	Made of Plastic
10.	Fuel Tank	4 tanks	20 liter x 2 tanks for Diesel,
			20 liter x 2 tanks for Gasoline,
			Made of Plastic
11.	Thermohygrometer	1 unit	3°C-40°C/20-100%
	(BARIGO)		
12.	Vinyl Sheet	3 sheets	6 x 8 m
13.	Rice Sack	300 sacks	Made of Polypropylene, White
14.	Diesel Fuel	10 drums	1,800 liter
15.	Gasoline Fuel	40 liter	
16.	Diesel Engine Oil	27 liter	5 liter/can x 5 cans, 1 liter/can x 2
			cans, SAE 40
17.	Gasoline Engine Oil	10 liter	5 liter/can x 2 cans, SAE 50
18.	Fuel Pump	1 piece	
	(ORIENTAL, RP-24)		
19.	Stop Watch	1 unit	
20.	Handy Tool Set	1 set	

Page 2 of 2



# Buku Penganta

# KETERANGAN MENGENAI TRAKTOR TANGAN NC-131

dari Kubota diesel mesin dan mobil. Semua bagian dari kotak transmisi dibuat dengan cermat untuk daya tahan Besi kotak transmisi terbuat dari bahan-bahan berkualitas tinggi. Semua bagian dari SIAM KUBOTA Traktor Tangan ransmisi dibuat dengan menggunakan Teknologi produksi terbuat dari bahan - bahan berkualitas tinggi. Kotak

Berat body traktor yang ringan mempermudah pada saat pengontrolan dan radius belok yang kecil. Berat traktor yang ringan, mempermudah pembelokan. ٨į

yang baik.

Tiga kecepatan maju dan satu kecepatan mundur. Untuk mempermudah, disedlakan tiga kecepatan maju untuk memperoleh [umlah maksimal pada tenaga putaran dan kekuatan untuk membajak dan juga pada tranportasi. m

Pada pulin utama terpasang Dry Multipiate Clutch sehingga menambah efishensi transmisi tanpa membuat tali Kipas tergelincir keluar. Kopling kemudi untuk menggerakan trakkan sangat stabil. Untuk pencegahan lumpur dan air digunakan kabel kopling agar kopling dapat tahan lama saat beroperasi. Pelindung pulin dipasang Sistem kopling yang tahan lama. untuk keamanan saat beroperasi. 4

Kubota dlesel. Kayu atau besi tidak dibutuhkan, jadi Mesin dasar adalah sejenis dengan 7 – 11.5 hp mesin kemudahan dalam memasang mesin sangat terjamin. Kemudahan dalam memasang mesin. ·,

Pengaturan jarak roda dapat di atur sesual dengan syarat kerja. Misalnya; Untuk transportasi, dipakal ban Pengaturan jarak roda. biasa bukan roda besi. ø

tersendirl Periengkapan pengubah kecepatan yang disedikan untuk keamanan dalam beroperasi. Sistem Transmist. ۲.

# PEMASANGAN MESIN KUBOTA DIESEL PADA SIAM KUBOTA TRAKTOR TANGAN



Engine pulley Θ

(a)Power tiller frame



Engine mounted bolt (3) Engine base (4)

Pulln mesin,

KerangkaTraktor,

Mutut kancing mesin,

Dasar mesin.

SIAM KUBOTA traktor tangan dapat dipasang oleh Pemasangan mesin dapat dilakukan tanpa menggunakan kayu atau besi sebagai bahan pembantu seperti di bawah semua Jents mesin Kubota diesel model ET70 1/4, 115.

Tempatkan mesin pada kerangka traktor. Lampu Gunakan kayu entuk mengangkat mesin.

Lepaskan mulut kancing mesin dan pasang pilun mesin ( lihat pada gambar ). harus diarahkan ke depan.

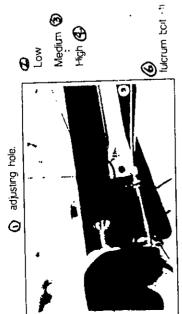
Pasang 2 tali kipas pada mesin dan pulin utama. Naikkan standar dan biarkan kerangkan traktor menurun kedepan. Mesin akan menurun kedepan dan tall kipas akan mengencang.

dan mengencangkan tali kipas. Gunakan tangan untuk menekan bagian atas kedua tali kipas. Maksimal pembelokan adalah 16 - 20 mm. Putar baut sayap untuk mengatur pulin ketegangan Kencangkan 4 mulut kancing mesin. 8 K

# LII NYETEL BAGIAN BAGIAN DARI SIAM KUBOTA TRAKTOR TANGAN

Pegangan dapat di setel dengan 3 posisi; tinggi, sedang, dan rendah sesual dengan tinggi badan operator Menyetel Pegangan.

f pemakal.



S Handle locked bolt '2)

.obang penyetel Rendah

3edang

nnggi

Kancing pengunci pegangan Kancing fulcrum 4 6 6

Metode.

H-54

Pindankan kancing pengunci pegangan, pilih sesual dengan lobang penyetel. Longgarkan kancing fulcrum.

Pasang dan kencangkan kunci pegangan.

Perhatlan,

Sebetum penggunaan sehari – hari, periksa dan kencangkan kunci pegangan. Kunci pegangan longgar akan mengakibatkan kerusakan pada alas pegangan.

Free play (15-20 mm) "engage" ( $\mathfrak F$ Disengage" position · Clutch wire locked nut Adjuster (2) Mur kopilna Menyetel tuas kopiling utama. Penyetel (d) "Engage" position á

Selama penggunaan kalau sewaktu - waktu terjadi hal -hal seperti

Kelonggaran (15-20 mm) "Jalan" Pisisi "Jalan"

Posisi "Dlam"

Setelah mendorong Kopling utama pada posisi untuk Tuas pengubah kecepatan susah masuk atau terjadi kebisingan. "Olam"

Tuas kopling utama pada posisi "Jalan" tapi traktor ildak bergerak ĸ.

Penyetelan,

Lepaskan mur kopiing ( Seperti pada gambar bagian atas ).

perlahan - tahan Putar penyetel. Dorong kopling utama pada posisi kebelakang hingga dapat terkunci kembali. "Jalan", kemudian tuas ditarik

Longgarkan tuas kopilng utama 15 - 20 mm ( Pada Atur jarak bebas maksimum. Kencangkan baut gambar bagian bawah). 'n

Pernatien,

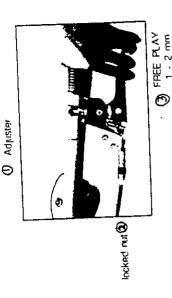
kopiing dan penyetel.

Hentikan mesin sebelum penyetelan

# Menyetel kopling kemudi kiri dan kanan. 급

į

Bilamana kopiing kemudi sudah dipegang dan Traktor tidak belok. Atau Terlalu banyak kelonggaran pada kopilng kemudi atau tidak ada sama sekali. Atur kopilng kemudi seperti di bawah Ini.



Mur Pengunci Penyetel

Kelonggaran 1 – 2 mm

Hentikan mesin. Lepaskan mur pengunci ( lihat Penyetelan,

Putar penyetel dan periksa kelonggaran dari kopling nambar ). 7

Longgarkan kopilng kemudi hingga 1 – 2 mm. Kencangkan kembali mur tersebut.

kernudi.

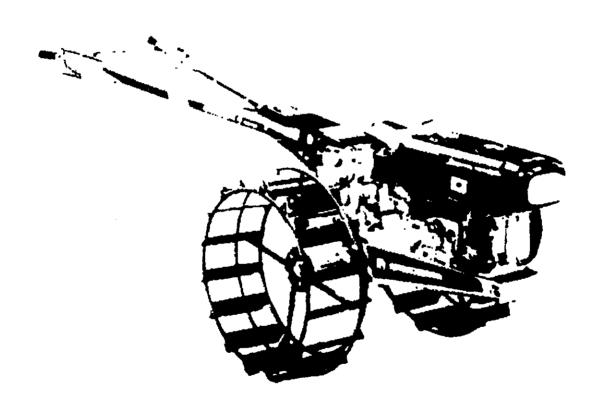
Perhatlan,

Hentikan mesin sebelum penyetelan

# ILLUSTRATED PARTS LIST

# SK WALK-BEHIND TRACTOR

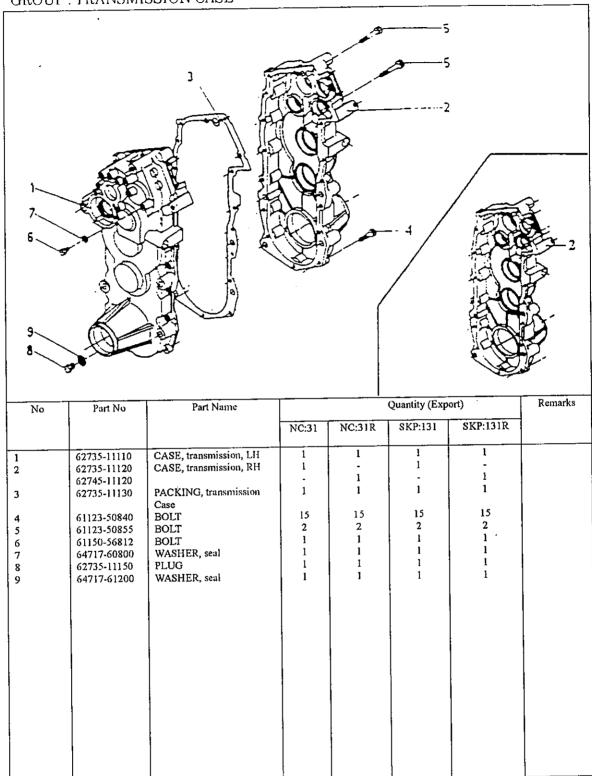
MODEL SKP 131



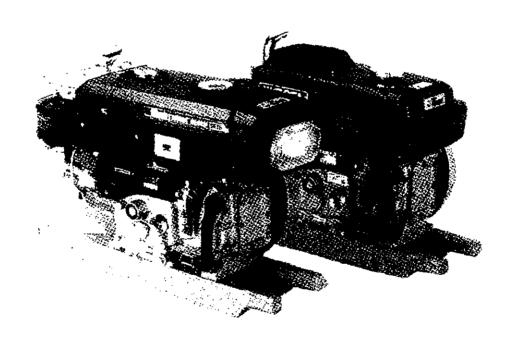
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TRANSMISSION 1	5
TRANSMISSION 2	6
CHANGE 1	7
BRAKE	. 8
HANDLE	9
CHANGE 2	10
CHANGE 3	11
LABEL	12
FRONT FRAME, HITCH	13
BELT COVER	14
WHEEL	15
ATTACHMENT	16
ACCESSORIES	17
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REAR WHEEL	24
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**GROUP: TRANSMISSION CASE** 



# LUSTRATED PARTS LIST CONTINE DIESEL ENGINE



MODEL - ET 80

JICA PILOT PROJECT at MANATUTO, 2003

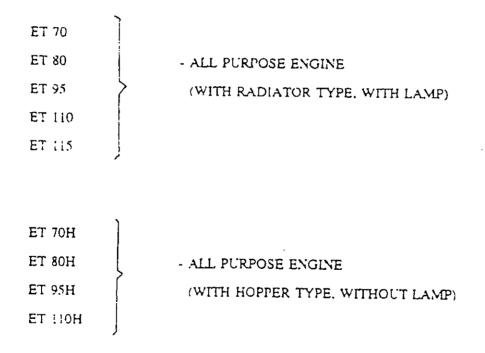
### NOTICE

### PURPOSE OF KUBOTA ENGINE PARTS LIST

- 1) TO ORDER PARTS BY CHECKING PARTS NUMBER AND PARTS NAME IN THIS PARTS LIST FOR CONFIRMATION THE ORDER.
- 2) WHEN THE PARTS ARE MODIFIED, THERE WILL BE CHANGED PARTS NUMBER AND REVISED PAGE OF PARTS LIST WILL BE ISSUED AND CARRIED TO THE NEW CODE
  - 3) THE PARTS LIST IS SUBJECTED TO CHANGE WITHOUT NOTICE.

### THIS PARTS LIST IS COMPILED FOR EACH MODEL AS FOLLOWS:

### MODEL OF ENGINE

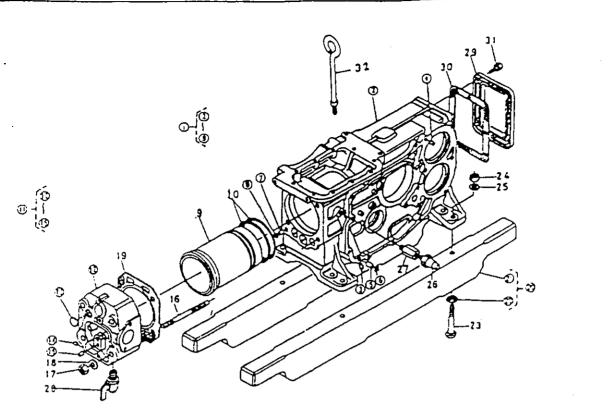


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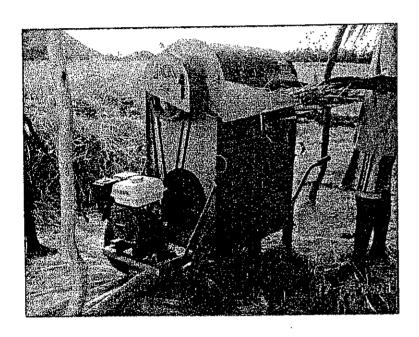


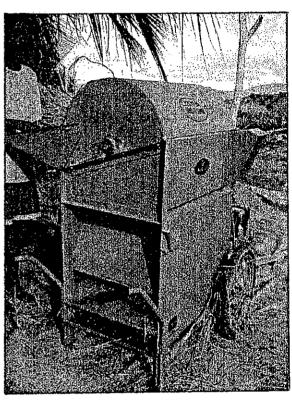


EF. NO.	PARTS NO.	PARTS NAME			UNIT		
			ET70	ET80	ET95	ET110	ET115
1	14911-01010	ASSY CRANKCASE	1	1		<u> </u>	ļ
1	14921-01010	ASSY CRANKCASE			1	1	
1	19090-12230	ASSY CRANKCASE					1
3	15261-96010	PLUG	2	2	2	2	2
4	05012-00612	PIN	1	1	1	1	1
5	14911-94930	PIN	1	1	1	1	1
	04811-00080	O-RING	1	1	1	1	1
7	14301-33950	PIN	1	1	1	1	1
_8	04811-00080	O-RING	1	1	1	1	1
0	14901-02310	LINER, CYLINDER	1				
9	14911-02310	LINER, CYLINDER		1			
9	14921-02310	LINER, CYLINDER			1		
3	14931-02310	LINER, CYLINDER				1	
3	19090-15320	LINER, CYLINDER				<u> </u>	11
10	14911-02350	O-RING, LINER	2	2			
10	14301-02350	O-RING, LINER			2	2	
13	04811-11001	O-RING, LINER				<u>                                     </u>	2
	19103-03042	ASSY CYLINDER HEAD	1				
12	19104-03042	ASSY CYLINDER HEAD		1			
11	14921-03040	ASSY CYLINDER HEAD			1		<u> </u>

# OPERASI MANUAL PERONTOK PADI

MODEL: AGRINDO TPA 1000





### Crisi-Crisi

- \* Daya Mesin Mesin 5.5Hp
- \* Terapa Pembantu 2 Orang Untuk Perontok Pad dan Mengisi Sak Beras Padi
- \* Jents Pengunaan Desain yg Sederhana dan Tidak Memerlukan banak tenaga Serta Kewaspadaan dlm timbulnya Masalah
- \* Perontok dan Gabungan Sayap Penampi Sistem Perontokan telah tergabung bersama jengan Tiupan Udara dan Sekitin Sistem Pembersih
- \* Keringanan Mesin Jorsa di dorong oleh Seorang Saja. Pasak Kemudi tersusun rapi dan Keringanan Pada Semda Bodi.

### Spesifikasi/Perincian

12. Komponen Kecepatan

: HONDA GX 160 5.5 Hp Bahan Bakar Bensin 1. Tenaga

: Aliran Aksial Fan, 340mm diameter 2. Tipe

: 147 kg 3. Berat (dengan Bensin) : 2,030mm 4. Panjang

: 1,175mm 5. Lebar : 1,415mm 6. Tinggi

: 270 - 370 kg intake Padi/Jam 7. Kapasitas Kerja

8. Daya rontok Butir Padi : Kurang dari 4% : 98% (Berat dasar) 9. Oemisahan Pendapantan

: Paku besar 7 pieces/bar x 8 bars, 394mm Diluar 10. Silinder (Sistem Pembuka)

Diameter 725mm Panjang

: Long life all steel 11. Konstruksi : 600 - 650 rpm

: 800 rpm 13. Pengipasa (Kipas)

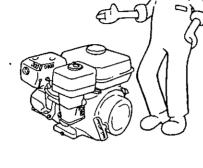
: Kira-Kira 1 liter/Jam 14. Pemakaian Bahan Bakar

## HONDA

I. PETUNJUK UMUM KESELAMATAN



DILARANG MENGHIDUPKAN MESIN DI





C HONDA MOTOR CO LTD. 1992

39ZH9702 00X39-ZH9-7020

N AP 9504

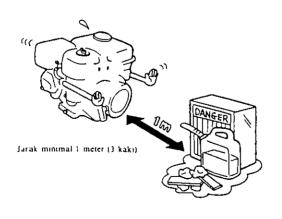
K1

JAUHKAN DARI BAHAN-BAHAN YANG

DILARANG MEROKOK



JANGAN SAMPAI TUMPAH



MATIKAN MESIN





### **SATAKE**

### PETUNJUK MANUAL

### MOBILE UNIT GILING PADI

MODEL: SB 10D

Lahan Percobaan JICA di Manatuto

### MOBILE UNIT GILING PADI MODEL : SB 10D

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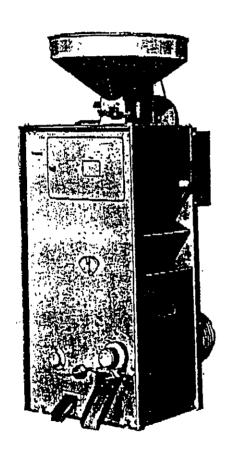
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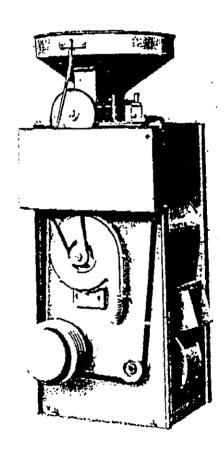
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4. Lain·lain	

### A. MESIN GILING

### I. CIRI-CIRI

- Satu-Satunya sistem untuk Melakukan proses pengupasan, Pemisahan sekan (Hare kulit) dan Beras Murni, Beras putih dan kulit di pindahkan oleh Satu Mesin saja.
- 2. Sejak butir padi di Satukan oleh tekanan udara yang tinggi Maka akan Meghasilkan beras putih yang Murni.
- 3. Pembuatan Mesin ini Sederhana (Simplis) dan tersusun rapi.
- 4. Dua Instalisi Kerja dan Operasinya (Pengunaanya) Sangat Gampang.
- 5. Keributan (Barulhu) dalam operasi Sangat Sedikit.





### B. MOTOR DIESEL

### I. GARIS DIMENSI

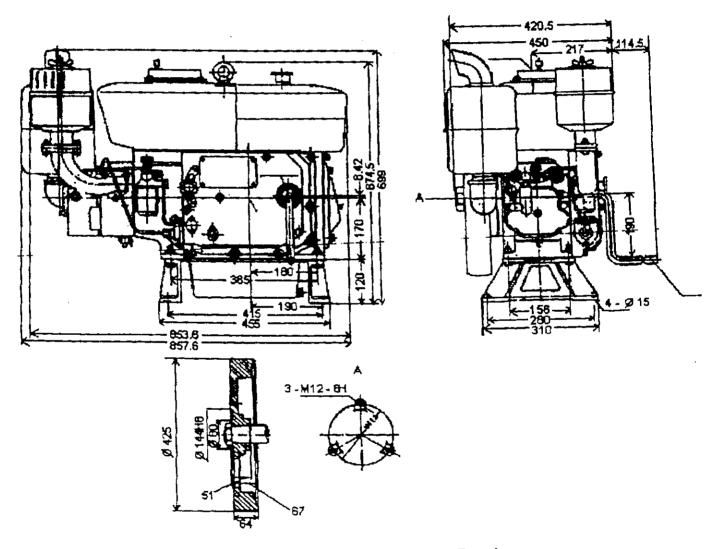


Fig. 14 Gambar Luar Dimensi Motor Diesel

## SATAKE DAFTAR BARANG

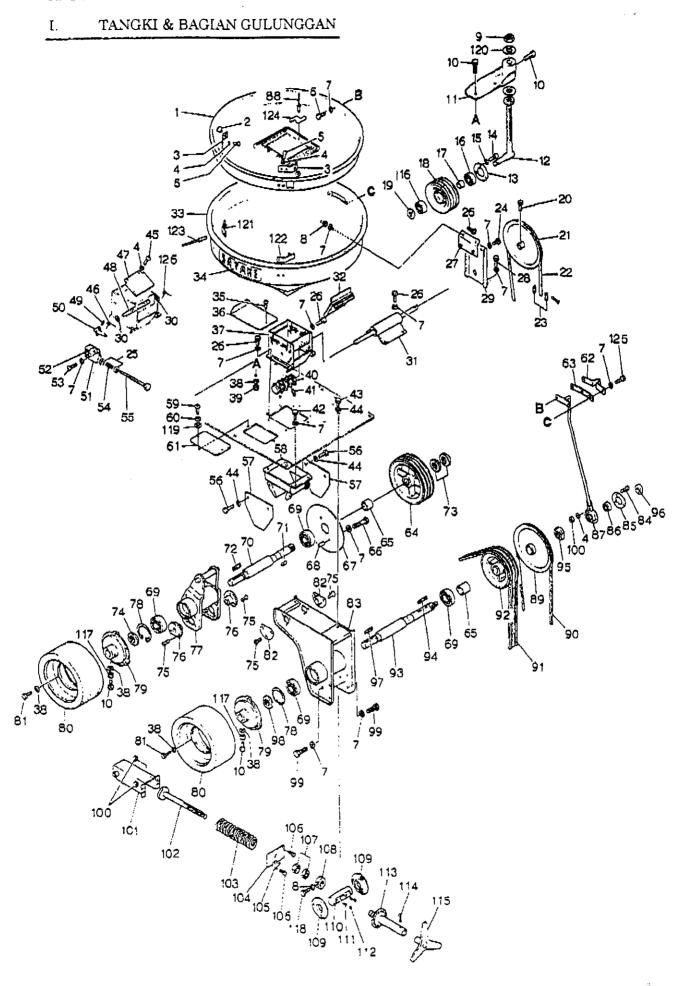
## MOBILE UNIT GILING PADI

MODEL: SB 10D

LAHAN PERCOBAAN JICA DI MANATUTO

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	XIV.		

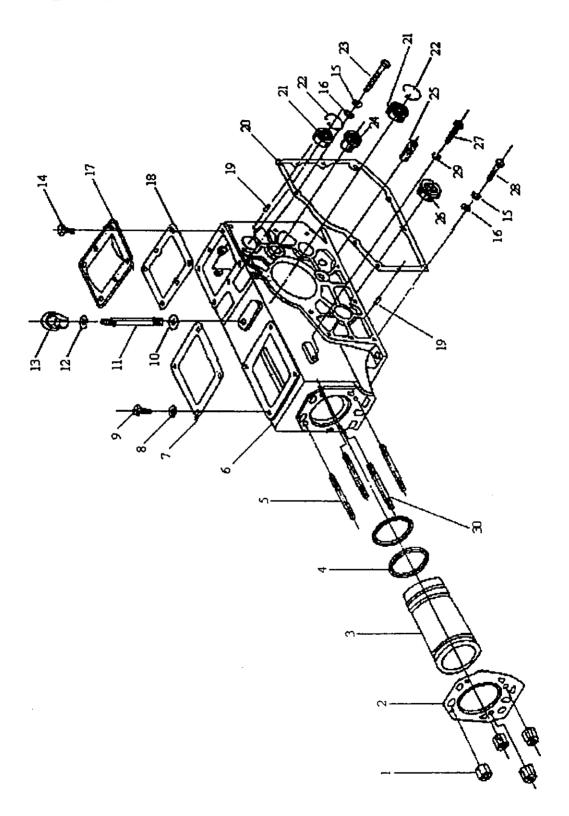


# I. TANGKI & BAGIAN GULUNGGAN

KEY NO	PARTS NO	PARTS NAME	NOS. USED PER SET	PRICE
1	0651029	Getaian Skrin	1	·
2	0651167	Busi	2 .	
3	0651117	Penyuap (A)	2	
4	EDA05	Pembergih, M5	9	
5	EAA05012	Baut Bersegi Enam, M5x12	4	
	EAAUSUIZ	Baut Bersegi Enam, MOX12	4	
6	EAA06012	Baut Bersegi Enam, M6x12	2	
7	EDA06	Pembergih, M6	36	
8	EBA06	Mur Bersegi Enam, M6	3	•
9	EBK2415	Mur Bersegi Enam, M24x1.5	2	
10	EAA10025	Baut Bersegi Enam, M10x25	7	
11	0651032	Gikap Patil	1	
	90651127	Bagran, Penyuapan Batang Penemu	1	
12	* 0651127	Roundana		
13	* 0133004	Ptutupan Gikap		
14	* ECK05012	Skrup Penjepit Mesin, M5x12	3	1
15	* EDA05		3	
16	* FC110204	Pembergih, M5	2	
		Megin Giling Gilas, 6204DDU	Z .	
17	* 0504062	Kerah	1	ļ
18	* 0587028	Penegan Katrol (takai)	1 1	ĺ
19	* 0112204	Mur, Mzo, Trip tanqqan kiri	1	
20	EAA08020	Baut Bergiqi Enam, M8x20	1	
21	0651014	V. Katrol (Takal)	1	
22	FD15000A	Ikat pinggang Berlubang, TipeA	100 cm	
23	FD15010A	Set Piringgan Unfuk pinggang berlubang, TipeA	1	
24	EAA06016	Baut Persegi Enam, M6x16	2	
25	0463065	Tempat pegas	2	
26	EAA06012	Baut Perseqi Enam, M6x12	14	
27	0651128	Pelat 2	1	
28	BAA06010	Baut Bersegi Enam, M6x10	2	
29	0651126	Pelat 1	1	
30	EDB10	Dambaueih Dausten Mil 2		
30		Pembergih Paratan, M10	2	·
	90651132	Pengguing Kaki Paril		· .
32	0504132	Magnet Pemisah	1 .	
	90651077	Pebmpat Penemu	1.	
33	<b>*</b> 0651077	Pebmpat	1	!
34	* 0118367	Nama piringang	1	
35	ECK04006	Salvain Danianit Marin 144C	1	
36	0504136	Sekrup Penjepit Mesin, M4x6	'	
	1	Pengatur Cahaya	.	
37	0651010	Pelompat Maruk		
38	EDA10	Pemberigih, M10	12	
39	EBA10	Mur Persegi Enam, M10	2	
40	0651022	Penggulung Makanan	1	1 .

# B. MESIN DIESEL (MODEL: R-220H)

# I. SAMBUNGAN BLOK SILINDER (I)

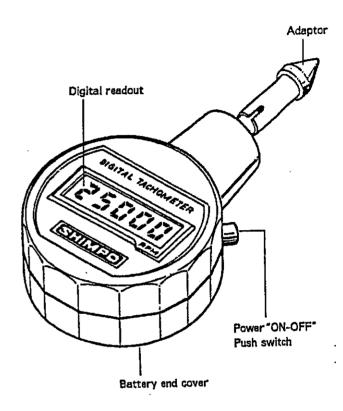


# I. SAMBUNGAN BLOK SILINDER (I)

2 Cylin 3 Cylin 4 Cylin 5 Cylin 6 Cylin 7 Hop 8 Was 9 Hex 10 Was 11 Lifti 12 Was 13 Lifti 14 Hex 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gear 21 Bear 22 Circ 23 Hex	agonal bolt her ng stud her ng eye nut agonal bolt her	S1110-01001 S1110-01003 S1110-01004 S1110-01005 S1110-01002 S1110-01101 S195-01007 GB97.1-85 GB5783-86 S195-01008 S1110-01005 GB97.1-85 S195-01010 GB5783-86 GB93-87	4 1 1 2 2 1 1 4 4 1 1 1 1 1
3 Cylin 4 Cylin 5 Cylin 6 Cylin 7 Hop 8 Was 9 Hex 10 Was 11 Lifti 12 Was 13 Lifti 14 Hex 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gea 21 Bean 22 Circ 23 Hex	nder liner inder liner water seal ring inder head stud inder block per packing her agonal bolt her ing stud her ing eye nut agonal bolt her	S1110-01004 S1110-01005 S1110-01002 S1110-01101 S195-01007 GB97.1-85 GB5783-86 S195-01008 S1110-01005 GB97.1-85 S195-01010 GB5783-86	2 2 1 1 4 4 1 1 1
4 Cylin 5 Cylin 6 Cylin 7 Hop 8 Was 9 Hex 10 Was 11 Lifti 12 Was 13 Lifti 14 Hex 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gear 21 Bear 22 Circ 23 Hex	nder liner water seal ring nder head stud nder block per packing her agonal bolt her ng stud her ng eye nut agonal bolt her	S1110-01005 S1110-01002 S1110-01101 S195-01007 GB97.1-85 GB5783-86 S195-01008 S1110-01005 GB97.1-85 S195-01010 GB5783-86	2 2 1 1 4 4 1 1 1
5 Cylin 6 Cylin 7 Hop 8 Was 9 Hex 10 Was 11 Lifti 12 Was 13 Lifti 14 Hex 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gea 21 Bean 22 Circ 23 Hex	nder head stud nder block per packing her agonal bolt her ng stud her ng eye nut agonal bolt her	S1110-01002 S1110-01101 S195-01007 GB97.1-85 GB5783-86 S195-01008 S1110-01005 GB97.1-85 S195-01010 GB5783-86	2 1 1 4 4 1 1 1
6 Cylin 7 Hop 8 Was 9 Hex 10 Was 11 Lifti 12 Was 13 Lifti 14 Hex 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gea 21 Bean 22 Circ 23 Hex	nder block per packing her agonal bolt her ng stud her ng eye nut agonal bolt her	S1110-01101 S195-01007 GB97.1-85 GB5783-86 S195-01008 S1110-01005 GB97.1-85 S195-01010 GB5783-86	1 1 4 4 1 1 1
7 Hop 8 Was 9 Hex 10 Was 11 Lifti 12 Was 13 Lifti 14 Hex 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gear 21 Bear 22 Circ 23 Hex	per packing her agonal bolt her ng stud her ng eye nut agonal bolt her	S195-01007 GB97.1-85 GB5783-86 S195-01008 S1110-01005 GB97.1-85 S195-01010 GB5783-86	1 4 4 1 1 1
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12 Was 13 Lifti 14 Hex 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gea 21 Bean 22 Circ 23 Hex	her ng eye nut agonal bolt her	GB97.1-85 S195-01010 GB5783-86	1 1
13 Lifti 14 Hex. 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gear 21 Bear 22 Circ 23 Hex	ng eye nut agonal bolt her	S195-01010 GB5783-86	1
14 Hex. 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gea 21 Bean 22 Circ 23 Hex	agonal bolt her	GB5783-86	-
14 Hex. 15 Was 16 Was 17 Upp 18 Pack 19 Loca 20 Gea 21 Bean 22 Circ 23 Hex	agonal bolt her	•	6
16 Was 17 Upp 18 Pack 19 Loca 20 Gear 21 Bear 22 Circ 23 Hex		GB93-87	
17 Upp 18 Pack 19 Loca 20 Gea 21 Bean 22 Circ 23 Hex	her	02700.	15
18 Pack 19 Loca 20 Gear 21 Bear 22 Circ 23 Hex	1171	GB97.1-85	15
19 Loca 20 Gear 21 Bear 22 Circ 23 Hex	er cover of the cylinder block	S195-01011	1
20 Gear 21 Bear 22 Circ 23 Hex	ring sheet of upper cover	S195-01012	1
21 Bear 22 Circ 23 Hex	ating pin	GB119-86	2
22 Circ 23 Hex	r casing packing	S1110-01011	1
23 Hex	ring	GB276-82	2
	lip	S1110-01010	2
24 Star	agonal bolt	S195-01034	3
	ting shaft bushing	S1110-01102	1
25 Spec	ed governing gear shaft	S1110-10105B	1
26 Can	shaft front bushing	\$195-01018	1
27 Hex	agonal bolt	GB5783-86	1
28 Hex	agonal bolt	GB5782-86	6
29   Was	agonal voit	GB93-87	1
30 Cyli		\$1110-01012	2

### Digital tachometer Genqqam

- Tergugun rapi, sederhana dan ada penerangan (lampu) ditambah digital tachometer yg akurat.
- Mulai terhitung dari 1 sampai 25,000 rpm (FPM, YPM, MPM) daiam bentuk LCD 5 buah penunjuk . Dan berat benda 9mm.
- Ketelitiannya ±1 rpm.
- Setiup keterangan akan berubah setiap detik secara atomatik.
- Gunakan C-MOS serta funqginya yq merupakan Hai yq tahan uji serta kekuatan daripada bateri akan semaktu melonlak (tinqqi).



# TINDAKAN PENCEGAHAN DAN KEAMANAN

Sebelum mengunakannya, terlebih dahulu bacalah pedoman ini secara Hati-Hati san tindakan pencegahan untuk keselamatan keamanan dan bunyi penggunaan.



Peringatan

Bila tidak Hati-hati munqktu akan menqakibateran luka yq serivs atau nyawa melayang.



Perinqatan

Bila tidak beghati-Hati dalam beberapa Hai biga menqakibatkan kecelakan yo loerat.

#### Peringatan

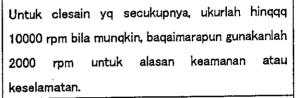


Penyetelan adaptor dan sekeliling potongan persneling secara langgun atau secara tegak lurus pada putarannya.



Bila anda gunakan perpanjangan, perikgalah putarannya, harus kurang dari 2000 rpm.

Bila avda menyetel adaptor secara miring atau pada penikungannya, maka batang adapter akan berhenti san mungkon juga akan menhantam tanggan anda dan hu loiga mengakibatkan luka.





Sebelum menqukur, pariksalah dahulu adaptor sebaik munqkin, pasanglah pada batang pengukur.



Bila anda menyetel adaptor ke dalam putaran, kontaklah asaptor ke batang pemutar secara tenang dan halus dan jangan secara kagar dan terpaksa.

Bila adaptor telah di pasang pas dan longgar pada batang, mungkon batang adaptor akan berhenti mendadak dan mengenai jari atau tanggan anda dan biga beraktbat luka. Penggunaan secara paksa akan mengakibatkan hai ya tidak baik pada adaptor atau tachom eter akan menubrunk putaran batang, dan bija mengakibatkan akgiden.



Janqan gunakan atau menoperari benda ini bila tanqqan anda basah untuk menhisari kekurutan, tanqqan jangan licin atau berminyak sebeb biga menqakibatkan akgiden (luka).



Janqan lakukan pengukuran apabtla pogigi adaptor tidak di letakan dalam pogigi pas tenggah daripada putaran. Penggunaan adaptor padaputaran secara paksa okan berakibat tatal atau akgiden.



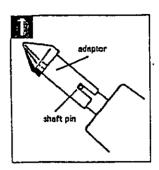
#### Perhatian



Janqan menyeutuh adaptor waktu pen gukuran ber lanqgun sebab,biga menyeret tanqqan anda pada putarau batang adaptor.

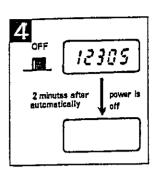


Untuk perpanjangan batang tidak biga digunakan untuk pada sekeliling potongan (Disk) persneling (kecepatan)



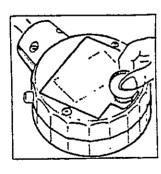




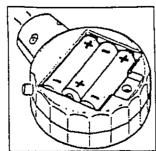


- Tempatkan secara banar adaptor pada batanq instrumen dan tekan hidup. Pastikan penitinya lurus pada batanq dengan lubanq adaptor.
- Untuk menqukur datarankecepatan, pilinlan dengan tepat pada dataran kecepatan adaptor.
- Pogigi adaptor pas tenqqah, pada putaran batang secara benar.
  - Saat menqukar permukaan kecepatan, gunakan permukaan kecepatan adaptor daripada bagunq atau coneng adaptor.
- Tekanlah "Power"
  dalam keadaan hidup
  dan terus menekan.
  Penqukuran akan
  secara otomatik
  bertukar dan berganti
  setiap detik.
- Setrap nomor yq berganti – ganti – keteranqan akan terdapat poin degimal (persepuluhan).
- Power akan secara otmatis mati. Dalam 2 menit segudah power ditekan mati (Off)
  - Bahkan sebelum 2 menit mati, anda dapat memulai kembali pengukuran yg baru.
  - Apabila "Power"
    ditekan hidup (On)
    data-data atau
    keterangan
    sebelumnya akan
    tertunda.

## UNTUK MEMAGAN BATERI

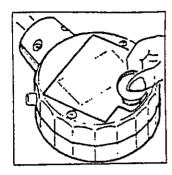


- Bateri persenelinq rendah biga menqakibatkan cahaya lampu hidup tidak teratur (cahaya kelap-kelip) pada lampu indikagi "B". Apabila hu terjadi tarulah semua bateri pada tempatnya.
- Pindah kan bateri dan kanqcinkan dengan oben atau logan.



 Magukan tiqq bateri kerinq, amatilah dengan tepat muatan kutub bateri yo berlawanan. (Perhatikan dengan benar, muatan kutub yo berlawan dengan teliti)

# UNTUK MENQUKUR DATARAN KECEPATAN



Pilihlah dengan tepat ukuran yo seguai, untuk perhitungan seperti (FPM, YPM, MPM) dilkuti dengan instrukgi untuk menhitung RPM.



Untuk keselamatan, hiudari perhitungan yo tecepat lebih dari 200m/menit.



Untuk mengukur kecepatan ya salah, luruskan secara tepat instrumen dengan putarannya. Jamgar mengukur miring sebab dapat mengakibatkan kerusakan atau mematikan kontaktor (Pengguna).

**SPEKGIFIKAGI** 

Jarak hitung

: 1~25,000 rpm (kecepatan berkigar: 0~200m/min.)

\* Tambahkan gama dengan kecepatan dataran FRM, YPM, MPM, dengan adoptor yo tepat.

Penunjuk

: 5 tombol, Besarnya 7 bagian LCD.

Penelitian

:1~5,999 rpm :±1 rpm/6,000~25,000 rpm :±2 rpm

Waktu Perolehan

: 1 Detik (cristal peuqontrol) \* 3 Detik, Saat 1 rpm terbaca.

Temperatur

: 0~45℃

Bateri

: 1.5V. AA Akikering x 3 bh.

Dimensi

: 137 x φ 74 x 32 mm

Berat

: 200g dengan bateri

Perlengkapan

: AKI kering Bateri (3bh), Adoptor : Kerucut (2bh), Penyalur (1bh),

Pendatar Kecepatan Adoptor 100mm (1bh).

# Alat Pengetes Kelembabam Butir padi

Model: Riceter J

### Petunjun Manual

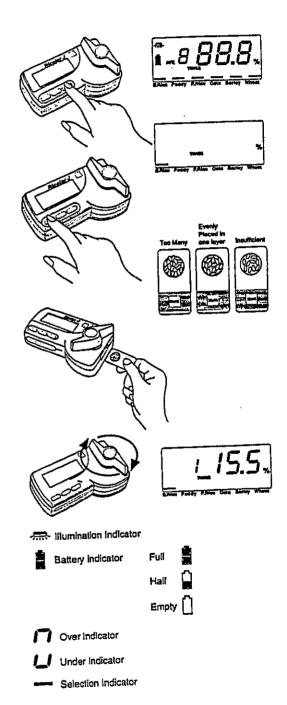
Pertama, anqka waktu tlanis "8 TIMES 88.8%", Dan tanda. Tanda lainya akan terlihat pada saat anda telah menekan "POWER" dengan Jari anda, apabila tak ada tanda-tanda () Hu berarti bateri telah soak atau kehabigan tenaga, Mana Gantilah bateri Yo baru ke tempatuya Seguai Petunjuk yo tergambar di kamar Bateri.

Tenanlah "SELECT" Hinqqa indicator selengi dari Penqetesan kelihatan pada dasar penunjuk. Ambil satu sendok penuh dengan butiran padi untuk Melakukan Tes atau pengukuran dan tempakatkan secukupnya pada tempat contou percobaan.

Catatan: Untuk Menhindari kekeliruan, janqan Menqunakan Butiran padi Mentah atau yo telah rusak.

Putarlah tombol penhancur, yo berlawanan dengan jalan jarum jam dan Masukan contoh yo akan dites kedouam ruang atau kamar percobaan. Putarlah tombol penhancur Hinqqa bethenti Penhancuran yo baik. Dapat dipercaya dayamuat dari pada kelembaban akan terbaca langgun setelah Tes tampa mengunakan pengubahan pada tabel.

Trap indikator yo berikut maginq-maginq memiliki arti yo penting. Lampu peneraq akan Menyala Pada 2 Detik. Setelah tombol "POWER", di tekan dan 4 detik pada saat daya muat kelembaban telah mulai atau melakukan penekanan pada tombol "SELECT". Indikator bateri, setelah tombol power ditekanmaka menjelang dua detik. Indikator ini akan keluar.



Atas indikator " ini akan muncul pada saat daya muat kelembaban dari pada contoh tes (sampel) melebihi batas kamar tes daripada jarak ukurannya, atau terjadinya masalah dengan pengukuran awai atau ketidak beresan lainnya.

Indikator bawah " 👝 " ini akan keluar pada saat daya muat kelembaban dari pada contoh tes menurun daripada jarak ukurannya, atau kontak antara tanqqan dan bagian metal daripada unit pertama hilang atau lemah.

Catatan: Bagian atas atau bawah indikator biga juga menunjukan guatu peristiwa prosedur dari pada pengukuran telah ugai atau telah dilakukan tampa mengisi contoh tes kedalam tempat pengetegan (sampel). Ada kondengangi didalam tempat atau kamar testinq. Atau. igolagi atau penyekatan sangat kurang (lemah) pada kelembabam ya bertemperatur tinaqi "soilina", apabila ini terjadi, bergihkan sepenuhnya kamar atau tempast testina dan kerinakana dengan teliti akan adanya penguapan kalau ada uap, oas, kelembabam.

- 1. Lebih dari dua 2 menil berlalu setelah tes.
- Setelah test selegai menujjukan "kira-kiranya".
- 3. Qebih dari 9 test yq dilakukan.

Sesudah setiap penqukuran, bergihkan tempat tes, penqatur, san sampel percobaan dengan bantuan sikat (ESKOBA).



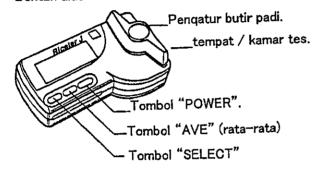




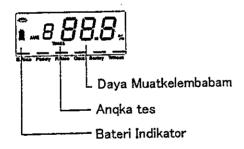


Riceter model "J" selalu memunqkinkan-pada penqqunq untuk teliti dlm penqukuran daya muat kelembabam 3 dari 7 jenis biji padi tempa menqunakan perubahan meja. Mode "J" membutuhkan peqquna untuk meninsert contoh tes atau sampel, dan memutarkan unit penqatur thrqqa berhenti. Semua prosedur yq ada bergifat atomatik, denqan dibanqun penqqolahan cara, temperatur penqanti dan sengitit guna penargiran dalam tantutan.

#### Bentuk alat



#### Penunjuk



#### Spekgifikasi

Dasar ukuran

: Ketahanan Listrik

Indikagi

: Digital penunjuk

Ketelitian Ukuran

: S.E.C: 0.5% (9~20%)

(standar daripada penqujian)

pertimbangan dengan ukuran

daigar

Temperatur penganti

: Rangkap dua otomatik

Bateri

: 4 buah x 1.5 V ( ukuran "AA")

Dimengi

: 164 (W) x 94 (D) x 65 (H)

Berat

: Kira-kira, 443g. Bergih

#### Perlengkapan

2 buah sampel percobaan / 1 buah gikat / 1 buah sendok dengan penjepit / 4 buah bateri "AA" / Petunjuk Manual

Perlengkapan



Sampel Percobaan

CHERTA SP

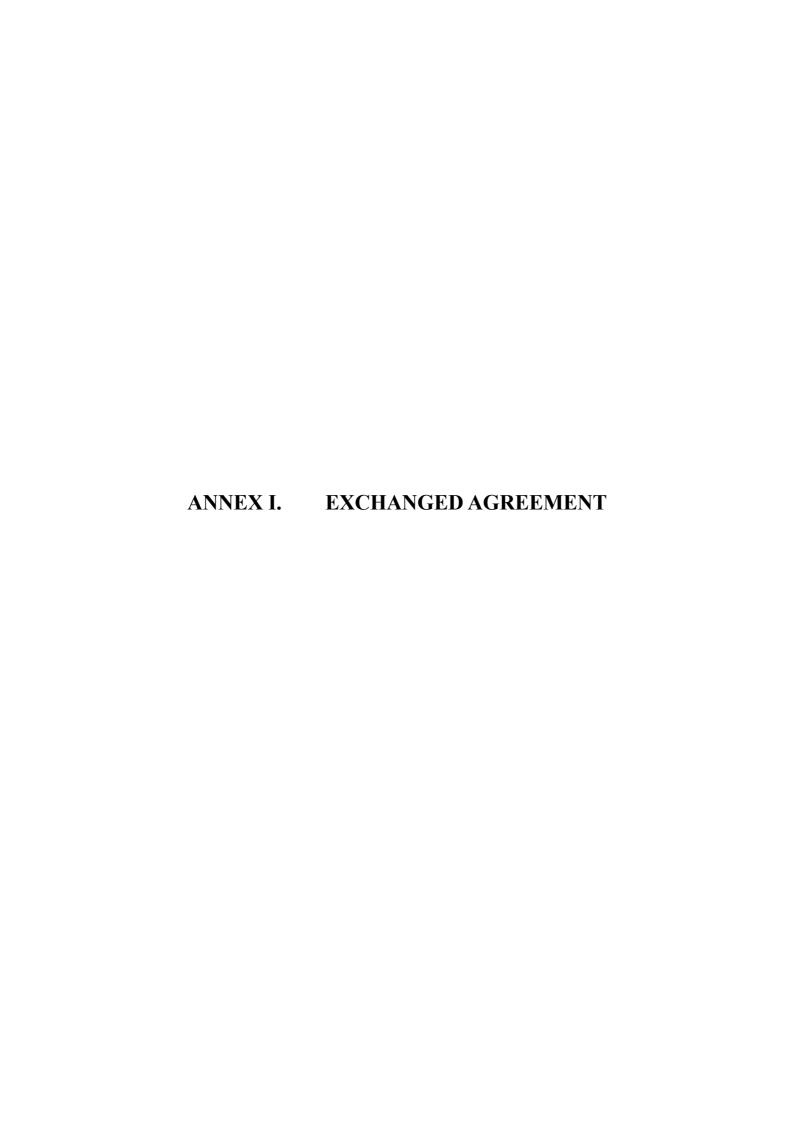
Gikat



Sedanq dan penjepit



Bateri



#### ANNEX I. EXCHANGED AGREEMENT

# <u>Issues of Agreement for the Pilot Project in Manatuto</u> <u>in</u> the Study on Integrated Agricultural Development of East Timor

December 5, 2002

JICA Study Team had the planning workshop from November 25 to November 29, 2002 related to the implementation of the Pilot Project in Manatuto Irrigation Scheme, with the representatives of farmers' groups and water users association (WUA), MAFF central and the district staff, CARE staff and JICA East Timor Office staff.

In the courses of the workshop, the following issues were agreed among the above mentioned stakeholders for implementing the project effectively:

- The Pilot Project shall be implemented through the participatory approach, i.e., with the active participation of the farmers to all stages of the project.
- The implementation period of the project shall be from November 2002 to June 2003.
- The project purpose is the capacity building of the farmers on rice production technologies and management of farmers' groups. The major project activities are divided into four components; (1) Production Technologies of Rice, (2) Farm Mechanization, (3) Irrigation Canal, and (4) Water Management.
- The activities of "Production Technologies of Rice" and "Farm Mechanization" shall be centered in a demonstration farm to be set up in the project area. The activities of "Irrigation Canal" and "Water Management" shall be centered in Inkero Secondary Canal.
- The land for demonstration farm shall be offered by Mr. Sebastian de Carvalho. The size of the farm shall be 2 ha in max. The harvested products from the demonstration farm shall belong to Mr. Sebastian.
- JICA Study Team shall supply the project with the necessary inputs such as seeds, fertilizers, pesticides (if needed), fuel for farm machineries (power tillers, thresher and rice mill), cement for division box, and canal cleaning tools. The farmers shall offer the project with free labor for the necessary activities, including the cleaning of Inkero Canal.
- The farmers shall bear a part of the costs for the above inputs, namely the introduction of a cost-sharing system. The intention of the system is to help sustain the project activities for long time. The collected money therefore shall be used exclusively for the project activities which the farmers shall continue after June 2003.
- The collected money shall be deposited in an authorized account or place under the

management of a treasurer to be designated by the farmers' groups.

- The details of the necessary inputs, the activities requiring labor and those quantities, and the rates of cost-sharing shall be discussed further by JICA Study Team and the farmers. The results of the discussion shall be summarized in paper and signed by JICA Study Team and the farmers.
- JICA Study Team and the farmers shall also discuss about a water fee, and if possible, the water fee shall be collected from the beneficiary farmers. The intention of the water fee collection is to maintain Manatuto Irrigation System in a good condition for long time.
- Three farmers' groups shall be set up for "Production Technologies of Rice" and "Farm Mechanization" Components, and the total members shall be 35. Another farmers' group shall be set up for "Irrigation Canal" and "Water Management" component, and the total members shall be between 43 and 60. The members of all groups shall be selected from the whole area of Manatuto Irrigation Scheme as the representatives of the farmers in their areas.
- In relation to the project activities, study tours shall be conducted once a month to take the farmers to advanced areas in East Timor.
- A small house shall be constructed for conducting trainings and storing the inputs and other materials. The land shall be offered by Mr. Sebastian de Carvalho. The construction materials shall be supplied by the JICA Study Team, and the necessary labor shall be offered by the farmers.

Representative of the Farmers Manatuto Irrigation Scheme Takeuchi Seiji Team Leader, JICA Study Team

Witnessed by

Caitano Jose Soares District Agricultural Officer (DAO) Manatuto

# ANNEX J. GOVERNMENT AND LOCAL STAFF INTERVIEWED BY STUDY TEAM

# ANNEX J. GOVERNMENT AND LOCAL STAFF INTERVIEWED BY STUDY TEAM

Study Team interviewed the following East Timor Government officers and other related persons during the field work for implementation of the Pilot Project.

Name Office Name/Position

#### A. Ministry of Agriculture, Forestry and Fisheries (MAFF)

Mr. Estanislau Aleixo da Silva
 Mr. Francisco Benevides
 Mr. Cesar Jose Da Cruz
 Mr. Mario R. Nunes
 Minister Vice-Minister
 Director General
 Director of Forestry

5. Mr. Romeo Guterres Director of Geography and Cadastre Unit

6. Mr. Domingos Gusmao Director of Livestock

7. Mr. Lourenco B. Fontes Research and Extension Center (Coordinator)

Mr. Narciso A. da C
 Mr. Deolindo da Silva
 Director of Fisheries
 Crop Production Unit

10. Mr. Florindo Barreto
 11. Mr. Adalfredo de R. Pereira
 12. Mr. Adalfredo de R. Pereira
 13. Mr. Adalfredo de R. Pereira
 14. Mr. Adalfredo de R. Pereira
 15. Mr. Adalfredo de R. Pereira
 16. Mr. Adalfredo de R. Pereira
 17. Mr. Adalfredo de R. Pereira
 18. Mr. Adalfredo de R. Pereira
 19. Mr. Adalfredo de R. Pereira
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 19. Mr. Adalfredo de R. Pereira
 19. Mr. Adalfre

12. Mr. Egas da Silva Training Unit

13. Mr. James Oliver Oduk Community Irrigation Specialist (Advisor)

14. Mr. Gertrudo Felimar M. Torrizo
 15. Mr. Gil Rangel da Cruz
 16. Dr. Braian Palmer
 17. Mr. Julio Correia
 Management Advisor
 PASC Coordinator, MAFF
 Advisor to the MAFF Minister
 Research and Extension Unit

18. Mr. Antonio S.Clivestock19. Mr. Vicente GuterresIrrigation20. Mr. Eduardo de CarvalhoFisheries

21. Mr. Hikaru Niki JICA Expert/Senior Advisor

#### **B.** District Office

#### **Manatuto**

Mr. Mateus Ximenes Belo
 Ms. Leonia da Costa Monteiro
 Ms. Clara de Carvalho
 Mr. Caitano Jose Soares
 Mr. Julio Correia
 Mr. Pedro Vital
 Mr. Gaspar H. da Silva
 District Administrator
 Manatuto Sub-District Coordinator
 Minatuto Sub-District Coordinator
 Manatuto Sub-District Coordinator
 Minatuto Sub-District Coordinator
 Minatuto Sub-District Coordinator
 Minatuto Sub-District Coordinator
 Minatuto Sub-District Coordinator
 Minatuto Sub-District Coordinator
 Minatuto Sub-District Coordinator
 District Agricultural Officer (DAO)
 District Irrigation Office (DIO)
 District Development Officer (DDO)

#### Baucau

1. Mr. Abilino Ornai District Agricultural Officer (DAO)

2. Mr. Antonio Jose Lopes Crop Production Officer

#### C. United Nations

1) United Nation Mission of Support in East Timor (UNMISET)

1. Mr. Sukehiro Hasegawa Deputy Special Representative of the

Secretary-General of the United Nation for

**East Timor** 

2) United Nations Office for Project Services (UNOPS)

1. Mr. Atsushi Kameda Project Manager Specialist,

East Timor Implementation Facility

#### D. Non-Government Organizations NGOs

1) CARE, East Timor

Mr. Rene De Grace
 Mr. Herman Koopman
 Agricultural Specialist

3. Mr. Marcelo Caitano Desous Crop Specialist

4. Mr. Adalberto Gaspar
 5. Mr. Thomas Francisco
 Farm Machinery Specialist
 Irrigation Specialist

2) GTZ

1. Mrs Brigitte S. Podborny Food Security Programme, Institutional

Development

E. Laclo Irrigation Scheme

1. Mr. Lourenco Brondizio Soares Ex-President of Water User's Association

(WUA)

2. Mr. Joao da Silva Ex-Vise-President of WUA

Mr. Lucas H. da Silva
 Mr. Sebastiao M. de Carvalho
 Mr. Lourenco B. Soares

President
Vice-President
Secretary

6. Mr. Antonio Soares Treasurer

G. Haburas Manatuto

1. Mr. Jose Pires Silva Manager

Mr. Jacinto Soares
 Mr. Felix de Carvalho.
 Mr. Lourenso Soares
 Assistant Manager
Accountant
Auditor

Mr. Antonio de Silva
 Mr. Benjamin Hale
 Mr. Lucas Soares
 Mr. Lucas Soares
 Tractor Operator
 Tractor Operator
 Tractor Operator
 Tractor Operator

#### F. Others

1) Dom Bosco High School

1. Mr. Eligio Locatelli Principle, Dom Bosco High School

2) Toa Corporation

1. Mr. Hiromichi Takagi Staff

3) Dai Nihon Construction

Mr. Keiji Ando
 Project Manager, Laclo Irrigation Project
 Mr. Kiyoshi Kusaka
 Project Manager, Water Supply Rehabilitation

and Improvement

3. Mr. Mario Soares Staff

4) Centro Logistico Nacional de Timor-Leste (CLNTL)

Mr. Zeca Amx
 Mr. Ladislau
 Member
 Marketing

5) Ex-Mobile Brigade

1. Mr. Domingo das Reis Tractor Operator

#### H. Related Japanese Agencies

1) Embassy of Japan

1. Mr. Hideo Fukushima Ambassador

2) JICA East Timor Office

Mr. Katuo Shouji Ex-Resident Representative
 Mr. Toshiaki Tanaka Resident Representative

Mr. Masayashi Takehara
 Mr. Masaru Yamada
 Mss Eriko Kameyama

Assistant Resident Representative
Assistant Resident Representative
Assistant Resident Representative