

6. Delivery Plan of Portable Pumps

Timor Area

Name of Area	Total Irrigation Area (ha)	Pump Irrigation Area (ha)	Required Number of Pump				Capacity of Existing Well (l/min)			Planned Pump (l/min)		
			Total	2"	3"	4"	600	1,200	1,800	600	1,200	1,800
Kab. Kupang												
Kec. Kupang Timu 1 Raknamo 2 Nunkurus 3 Aerrefak	127	127	10	8	0	2	5		2	3		
Kec. Sabu Timur 4 Bodae	72	72	8	8	0	0	2			6		
Sulamu 郡 5 Barade	36	36	4	4	0	0	4					
Kab. TIU												
Kec. Biboki Utara 6 Inggoreo 7 Kaubele 8 Maukabatan	135	135	13	12	0	1	5		1	7		
Kab. Belu Malaka Barat 郡 9 Weoc 10 Wederok 11 Leunklot	180	180	20	20	0	0	4			16		
Total	550	550	55	52	0	3	20	0	3	32	0	0
2KR's Pumps			22	22								
This Project			33	30	0	3						

* : All 2KR's Pumps are 3" but these pumps are delivered to 2" pump's area, based on local development plan.

** : All pumps are used for shallow well.

Sumbawa Area

Name of Area	Total Irrigation Area (ha)	Pump Irrigation Area (ha)	Required Number of Pump			Capacity of Existing Well (l/min)			Planned Pump (l/min)			
			Total	2"	3"	4"	600	1,200	1,800	600	1,200	1,800
Groud Water												
Kab. Sumba Barat												
Kec. Katikotana		90	10	10		5			5			
1 Maminjak												
2 Wailawa												
3 Makatekeri												
4 Kabunduk												
5 Malinjak												
Kec. Loli		60	7	7		4			3			
6 Kalimbukuni												
7 Waikaro												
8 Subowawi												
9 Umbu Pede												
Kec. Laratama		10	1	1		1						
10 Karuni												
11 Radamata												
12 Letekonda												
Kec. Kodi		35	4	4					4			
13 Kalambukaha												
14 Pakandawatu												
Kab. Sumba Timur												
Kec. Lewa		90	10	10		3			7			
15 Pametikurasa												
16 Kampong Hampang												
17 Walakiri												
18 Palapada												
Kec. Haharau		45	5	5		1			4			
19 Kadahang												
20 Rambangaru												
Sub Total		37	37	37		14			23			
Surface water		420	28		28							
Sub Total		420	28		28							
Total		457	65	37	28							
2KR's Pumps			22		22							
This Project			43	37	6	0						

Flores Area

Name of Area	Total Irrigation Area (ha)	Pump Irrigation Area (ha)	Required Number of Pump	2" Pump (600 L/min)	3" Pump (1,200 L/min)	4" Pump (1,800 L/min)	Water Resources
Kab. Manggarai							
1 Wae Kaap 1	278	80	4		4		Wae Pessi Riv.
2 Wae Kaap 2	238	60	3		3		Wae Pessi Riv.
3 Dampek	100	40	2		2		Wae Mas Riv.
4 Wae Mantar I	100	60	3		3		Wae Mantar Riv.
5 Wae Mese	200	40	2		2		Wae Mese Riv.
Sub Total	916	280	14		14		
Kab. Ngada							
6 Mbay	500	100	5		5		Asessa Riv.
Kab. Ende							
7 Mautenda IV	200	80	4		4		Mautenda Riv.
8 Mautenda VIII	150	40	2		2		Mautenda Riv.
9 Mautenda II	162	160	8		8		Mautenda Riv.
10 Dataranu Fataatu	60	40	2		2		Dataranu Riv.
Sub Total	572	320	16		16		
Kab. Sikka							
11 Ijura Aroa	500	220	11		11		Ijura Riv.
Kab. Flores Timur							
12 Konga	100	40	2		2		Konga Riv.
13 Lewolaga	200	40	2		2		Lewolaga Riv.
14 Waikuma	200	20	1		1		Waikuma Riv.
15 Bama	100	40	2		2		Bama Riv.
16 Wulaggitang	100	40	2		2		Wulaggitang Riv.
Sub Total	700	180	9		9		
Total	3,188	1,100	55		55		
2KR's Pumps			11		11		
This Project			44		44		

Lombok Area

Name of Area	Total Irrigation Area (ha)	Pump Irrigation Area (ha)	Required Number of Pump	2 nd Pump (600 l./min)	3 rd Pump (1,200 l./min)	4 th Pump (1,800 l./min)	Water Resources
Kab. Lombok Barat							
1 Ireng Daye/Kebon	288	40	2		2		Midang Riv.
2 Prawira	159	31	2		2		Sokong Riv.
3 Sandik	417	57	3		3		Meniting Riv.
4 Menggala	129	40	2		2		Menggala Riv.
5 Elong-elong	27	34	2		2		Menggala Riv.
6 Paku Keling	200	30	2		2		Iduk Riv.
7 Pengga Kiri/Bakon	1,000	30	2		2		Dodokan Riv.
Sub Total	2,220	265	15		15		
Kab. Lombok Timur							
8 Juwet	123	50	3		3		Moyot Riv.
9 Burung	125	50	3		3		Moyot Riv.
10 Surabaya Lepak	199	50	3		3		Moyot Riv.
11 Kangkek Lembang	233	40	2		2		Kermit Riv.
12 Sakra	1,859	70	4		4		Kermit Riv.
13 Dasan Bantek	45	34	2		2		Belimbing Riv.
Sub Total	2,584	294	17		17		
Kab. Lombok Tengah							
14 Dongak Langit	400	90	5		5		Batujai Riv.
15 Surabaya Bonder	200	70	4		4		Penujak Riv.
16 Mujur II/Jurang Batu	7,082	60	3		3		Lajut Riv.
17 Jonggat	15	15	1		1		Kumbung Riv.
Sub Total	7,697	235	13		13		
Total	12,501	794	45		45		
2KR's Pumps			21		21		
This Project			24		24		

Sumbawa Area

Name of Area	Total Irrigation Area (ha)	Pump Irrigation Area (ha)	Required Number of Pump	2" Pump (600 L/min)	3" Pump (1,200 L/min)	4" Pump (1,800 L/min)	Water Resources
Surface Water							
Kab. Sumbawa							
Tepas	40	40	2		2		Brang Rea Riv.
Kalimantong	40	40	2		2		Brang Rea Riv.
Moyo	40	40	2		2		Moyo Riv.
Kakiang	40	40	2		2		Pongal Riv.
Brora	40	40	2		2		Mamak Riv.
Plampang	40	40	2		2		Usar Riv.
Sub Total	240	240	12		12		
Kab. Buton							
Adu	40	40	2		2		Sori Daha Riv.
Mbawi	40	40	2		2		Laju Riv.
Raba Laju	40	40	2		2		Laju Riv.
Nac Kempo	40	40	2		2		Kempo Riv.
Sub Total	160	160	8		8		
Kab. Bima							
Tolotangga	40	40	2		2		Kanca Riv.
Dena	60	60	3		3		Karunggu Riv.
Campa	60	60	3		3		Campa Riv.
Korc	40	40	2		2		Sori Monca Riv.
Nto Beo	40	40	2		2		Ntobo Riv.
Rasa Bou	40	40	2		2		Dewu Moro Riv.
小計	280	280	14		14		
Ground Water							
Sub Total	800	800	40		40		Existing Shallow well
Total	1,480	1,480	74		74		
Final Request *			45		45		
2KR's Pumps			29		29		
This Project			16		16		

* : Central agency adjust the total number of pumps as 45 units instead of required 74 units of regional Office, Considering b other area.

Jayawijaya Area

Name of Area	Total Irrigation Area (ha)	Pump Irrigation Area (ha)	Required Number of Pump	2" Pump (600 L/min)	3" Pump (1,200 L/min)	4" Pump (1,800 L/min)	Water Resources
1 Pikhe	20	20	1		1		Branch of Baliem Riv.
2 Hfolkima	40	40	2		2		Branch of Baliem Riv.
3 Usilimo	20	20	1		1		Branch of Baliem Riv.
4 Higitima	20	20	1		1		Branch of Baliem Riv.
5 Megapura	20	20	1		1		Branch of Baliem Riv.
6 Aikima	40	40	2		2		Branch of Baliem Riv.
7 Delekama	20	20	1		1		Branch of Baliem Riv.
8 Algomo	20	20	1		1		Branch of Baliem Riv.
9 Unpakalo	20	20	1		1		Branch of Baliem Riv.
10 Anegere	20	20	1		1		Branch of Baliem Riv.
11 Pugima	40	40	2		2		Branch of Baliem Riv.
12 Perabaga	40	40	2		2		Branch of Baliem Riv.
13 Tulem	50	50	3		3		Branch of Baliem Riv.
14 Muliana	50	50	3		3		Branch of Baliem Riv.
15 Siepkosi	50	50	3		3		Branch of Baliem Riv.
16 Elabukama	90	90	5		5		Branch of Baliem Riv.
17 Bambok	90	90	5		5		Branch of Baliem Riv.
18 Elagaima	200	200	10		10		Branch of Baliem Riv.
Total	850	850	45		45		

Merauke Area

Name of Area	Total Irrigation Area (ha)	Pump Irrigation Area (ha)	Required Number of Pump	2" Pump (600 L/min)	3" Pump (1,200 L/min)	4" Pump (1,800 L/min)	Water Resources
1 Scmmanga / Muramsan	115	115	6		6		Swamp/Drain Dich
2 Tnh Miring	190	190	10		10		Swamp/Drain Dich
3 Erom	10	10	1		1		Swamp/Drain Dich
4 Sermayam	10	10	1		1		Swamp/Drain Dich
5 Kurik	110	110	6		6		Swamp/Drain Dich
6 Saior	50	50	3		3		Swamp/Drain Dich
7 Jagebob	190	190	10		10		Swamp/Drain Dich
8 Bupul	70	70	4		4		Swamp/Drain Dich
9 Muting	70	70	4		4		Swamp/Drain Dich
Total	815	815	45		45		

7. Delivery Plan of Vertical Turbine Pumps

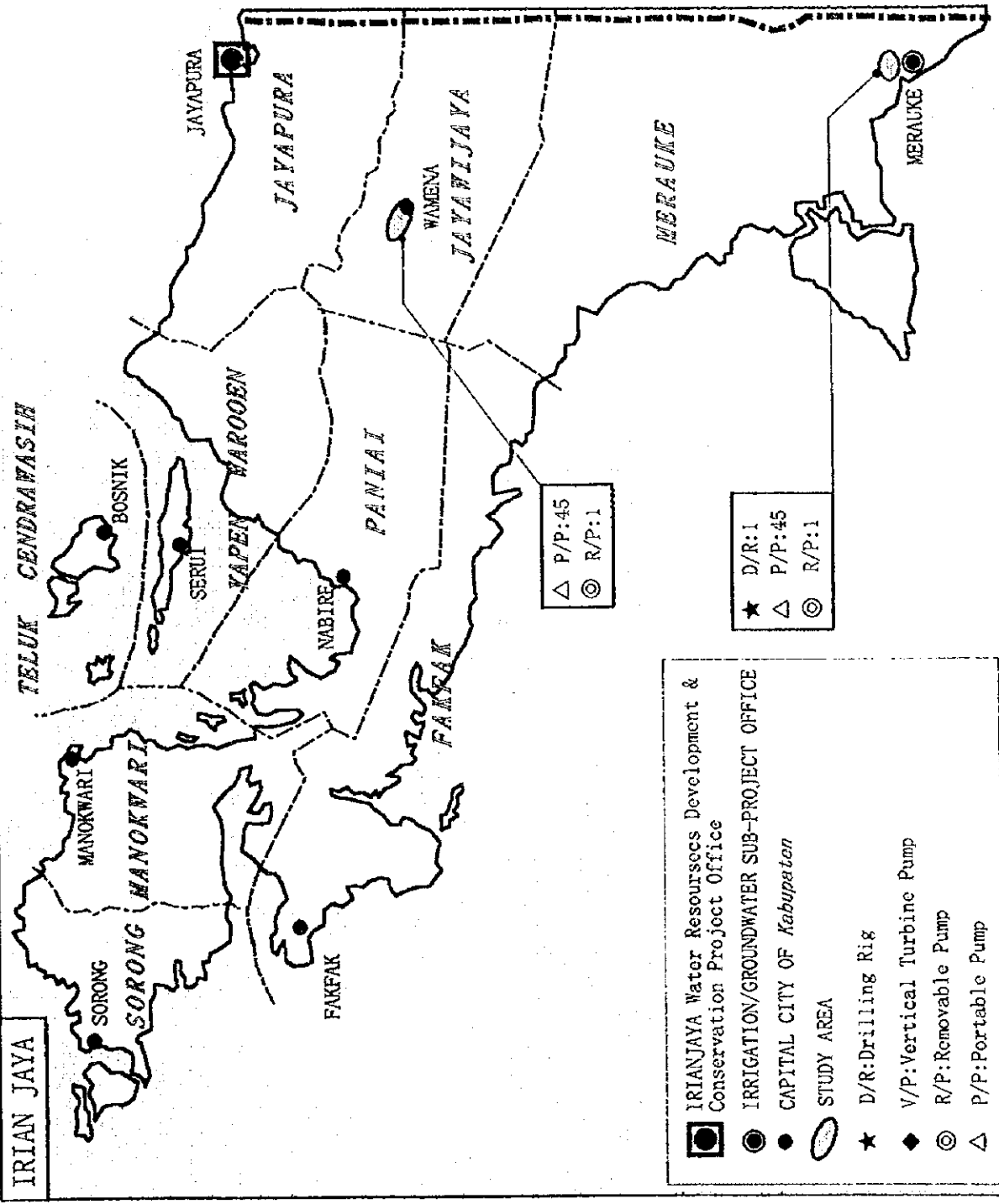
Delivering Site of Vertical Turbine Pump

Name of Area/Kabupaten	Kecamatan	Well No.	Status	Water Level (Gl.- m)	Well Capacity (l/min)	Pump Capacity			Total of Pumps
						900 l/min	1,200 l/min	1,800 l/min	
Timor Area									
Kupang	Sulamu	POI-132	Existing	8.5	780	1			1
	Kupang Timur	PP -139	Existing	15.8	540	1			1
	Sabu Barat	PSB- 15	Existing	9.3	600	1			1
Belu	Malaka Timur	P - 12	Existing	3.6	1,200		1		1
	Boas	P - 22	Existing	6.5	900	1			1
Sub Total						4	1	0	5
Sumba Aera									
Sumba Barat	Laratama	WMI- 14	Existing	28.5	850		1		1
	Laratama	WMI- 6	Existing	30.2	600		1		1
	Laratama	WMI- 17	Existing	16.5	1,060		1		1
	Laratama	WNI- 9	Existing	26.0	720		1		1
	Haharau	EKI- 08	Existing	16.1	1,660			1	1
	Haharau	EWI- 10	Existing	6.0	1,080		1		1
Sub Total						0	5	1	6
Flores Area									
Ende	Nangapenda	DDI- 11	Existing	13.6	600	1			1
	Maurolu	DKI- 21	Existing	12.5	900		1		1
Flores Timur	Wularggitang	FAI- 15	Existing	19.0	900		1		1
	Wularggitang	FAI- 16	Existing	11.0	600	1			1
Alor	Teluk Mutiara	AFI- 06	Existing	13.5	600	1			1
	Teluk Mutiara	AOI- 11	Existing	14.0	600	1			1
Sub Total						4	2	0	6
Lombok Area									
Lombok Barat	Gangga	SPG-224	Existing	28.5	850		1		1
	Bayan	SPB-199	Existing	30.2	600		1		1
	Bayan	SPB-226	Existing	16.5	1,060		1		1
Lombok Timur	Sambeila	SPS-204	Existing	26.0	720		1		1
	Sambeila	SPS-207	Existing	16.1	1,660			1	1
Lombok Timur	Sambeila	SPS-218	Existing	6.0	1,080		1		1
	Sambeila	SPS-229	新規	12.0	1,000		1		1
Sub Total						0	6	1	7
Sumbawa Area									
Sumbawa	Alas	SPS- 29	Existing	15.5	1,200		1		1
	Alas	SPS- 69	Existing	8.6	1,200		1		1
	Piampang	SPS-122	Existing	16.2	1,200		1		1
Dompu	Huiu	SPS-111	Existing	15.3	1,200		1		1
	Woja	SPS-121	Existing	13.8	1,200		1		1
Bima	Woha	SPS- 63	Existing	12.6	1,200		1		1
Sub Total						0	6	0	6
Total						8	20	2	30

8. Delivery Plan of Equipment

Kabupaten/Kec.	D/R	V/P	R/P	P/P
Jaya, W. Jaya	0	0	0	45
Pikhe				1
Holkima				2
Usilimo				1
Higitima				1
Mesapura				1
Aikima				2
Delekama				1
Algono				1
Umpakalo				1
Anegere				1
Pugima				2
Perabaga				2
Tulen				3
Muliana				3
Seipkosi				3
Elebukama				3
Bambok				5
Elagaina				10
Merauke	1	0	1	45
Merauke				1
Semanga				6
Tob Miring				10
Eron				1
Sermayam				1
Kurik				6
Saior				3
Jagebob				10
Bupul				4
Muting				4
Total	1	0	1	90

Fig. No.
THE PROJECT for URGENT PREVENTIVE IRRIGATION RESTORATION in the DROUGHT AFFECTED MARGINAL AREA DISTRIBUTION PLAN IN IRIAN JAYA



- ★ IRIANJAYA Water Resources Development & Conservation Project Office
- IRRIGATION/GROUNDWATER SUB-PROJECT OFFICE
- CAPITAL CITY OF Kabupaten
- STUDY AREA
- ★ D/R: Drilling Rig
- ◆ V/P: Vertical Turbine Pump
- ◎ R/P: Removable Pump
- △ P/P: Portable Pump

△ P/P: 45
 ◎ R/P: 1

★ D/R: 1
 △ P/P: 45
 ◎ R/P: 1

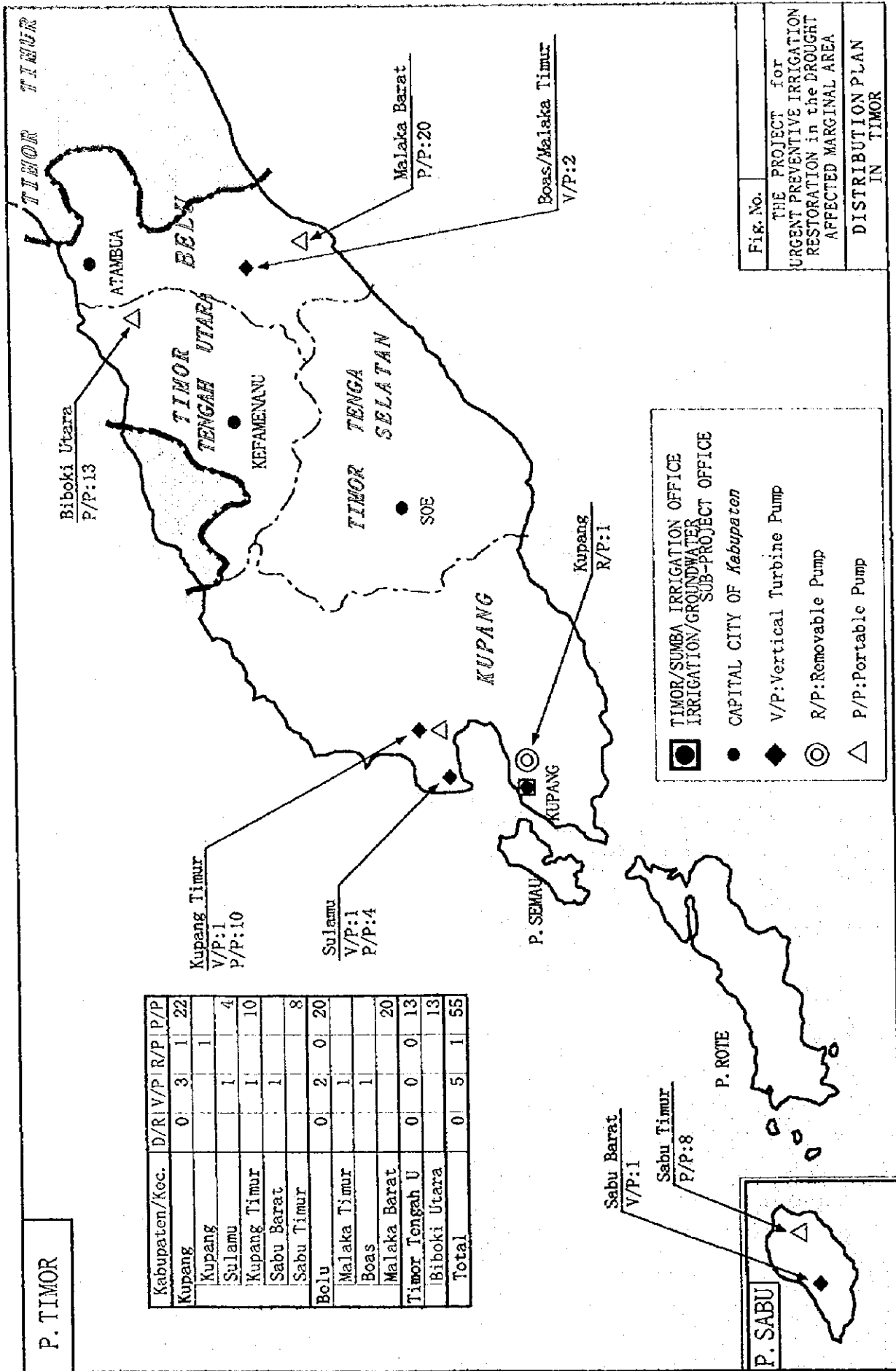


Fig. No. _____
 THE PROJECT for
 URGENT PREVENTIVE IRRIGATION
 RESTORATION in the DROUGHT
 AFFECTED MARGINAL AREA
 DISTRIBUTION PLAN
 IN TIMOR

TIMOR/SUMBA IRRIGATION OFFICE
 IRRIGATION/GROUNDWATER
 SUB-PROJECT OFFICE

● CAPITAL CITY OF *Kabupaten*

V/P: Vertical Turbine Pump

R/P: Removable Pump

P/P: Portable Pump

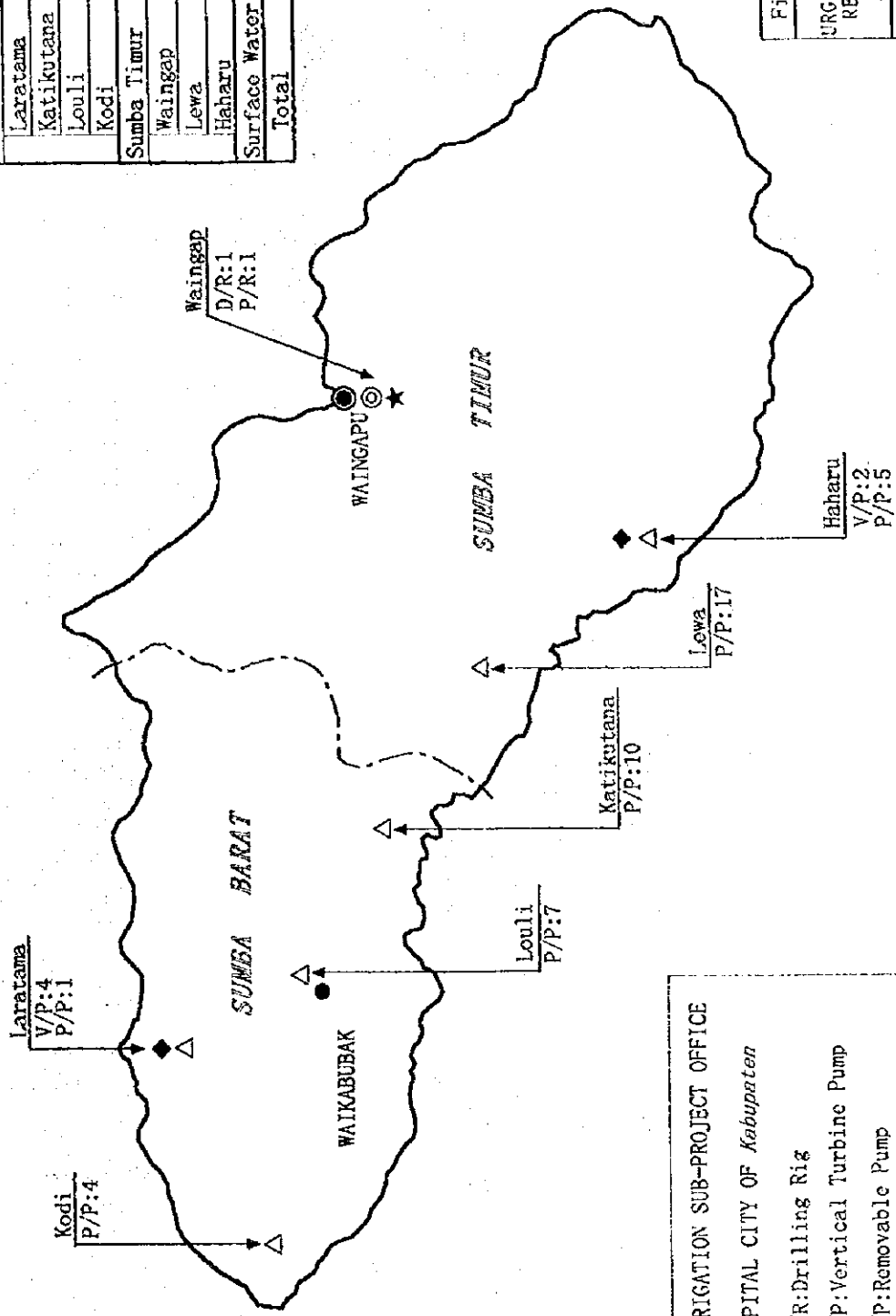
Kabupaten/Koc.	D/R	V/P	R/P	P/P	P/P
Kupang	0	3	1	1	22
Kupang				1	
Sulamu		1			4
Kupang Timur		1			10
Sabu Barat			1		
Sabu Timur					8
Bolu	0	2	0	0	20
Malaka Timur		1			
Boas			1		
Malaka Barat					20
Timor Tengah U	0	0	0	0	13
Biboki Utara					13
Total	0	5	1	1	55

P. TIMOR

P. SABU

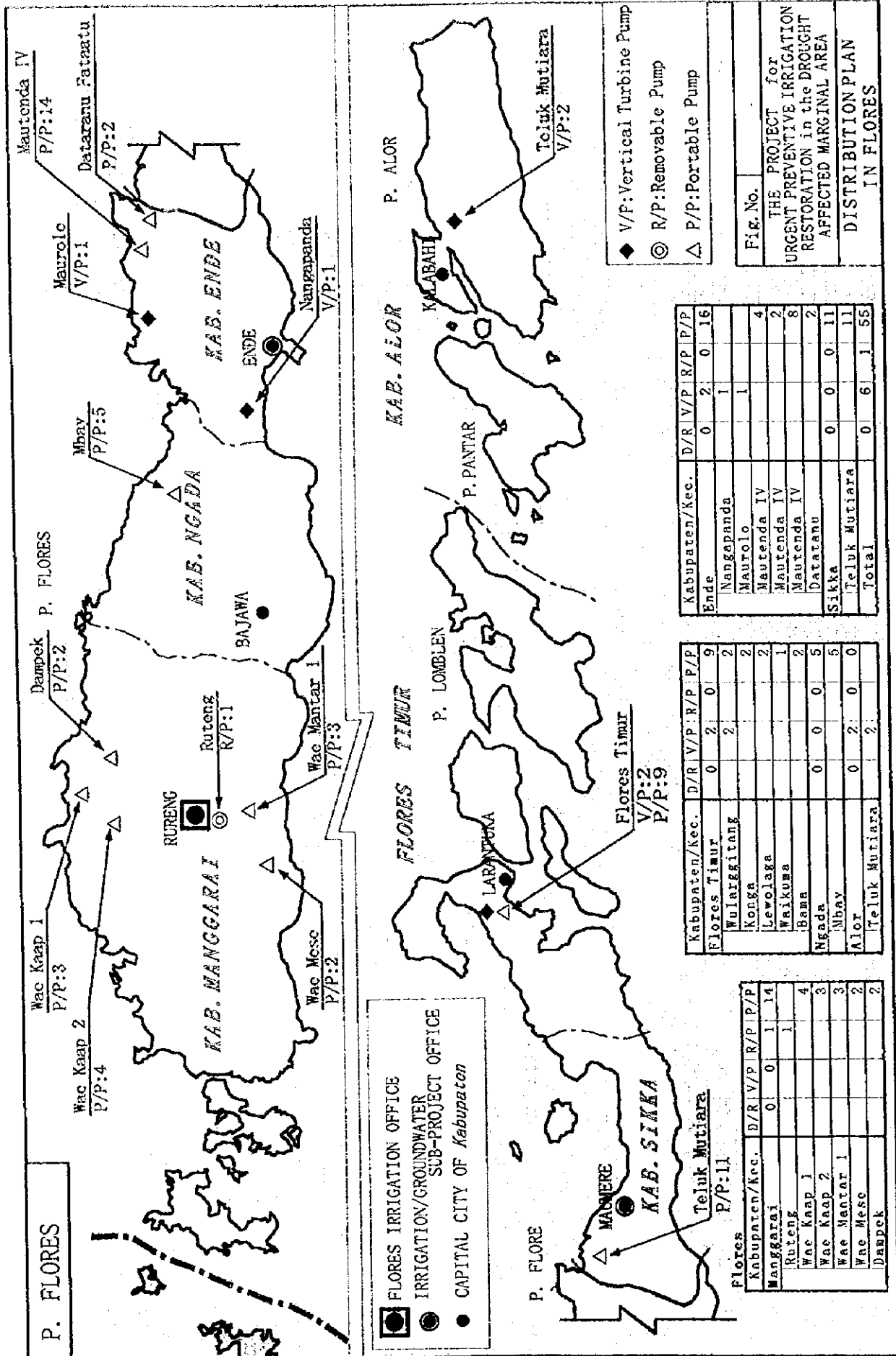
P. SUMBA

Kabupaten/Kec.	D/R	V/P	R/P	P/P
Sumba Barat	0	4	0	22
Laratama			4	1
Katikutana				10
Louli				7
Kodi				4
Sumba Timur	1	2	1	15
Waingap		1		1
Lewa				10
Haharu			2	5
Surface Water				28
Total	1	6	1	65



- IRRIGATION SUB-PROJECT OFFICE
- CAPITAL CITY OF Kabupaten
- ★ D/R:Drilling Rig
- ◆ V/P:Vertical Turbine Pump
- ◎ R/P:Removable Pump
- △ P/P:Portable Pump

Fig. No. _____
 THE PROJECT for
 URGENT PREVENTIVE IRRIGATION
 RESTORATION in the DROUGHT
 AFFECTED MARGINAL AREA
 DISTRIBUTION PLAN
 IN SUMBA



P. FLORES

■ FLORES IRRIGATION OFFICE
 ● IRRIGATION/GROUNDWATER SUB-PROJECT OFFICE
 ● CAPITAL CITY OF Kabupaten

◆ V/P: Vertical Turbine Pump
 ◎ R/P: Removable Pump
 △ P/P: Portable Pump

Fig. No.
 THE PROJECT for
 URGENT PREVENTIVE IRRIGATION
 RESTORATION in the DROUGHT
 AFFECTED MARGINAL AREA
 DISTRIBUTION PLAN
 IN FLORES

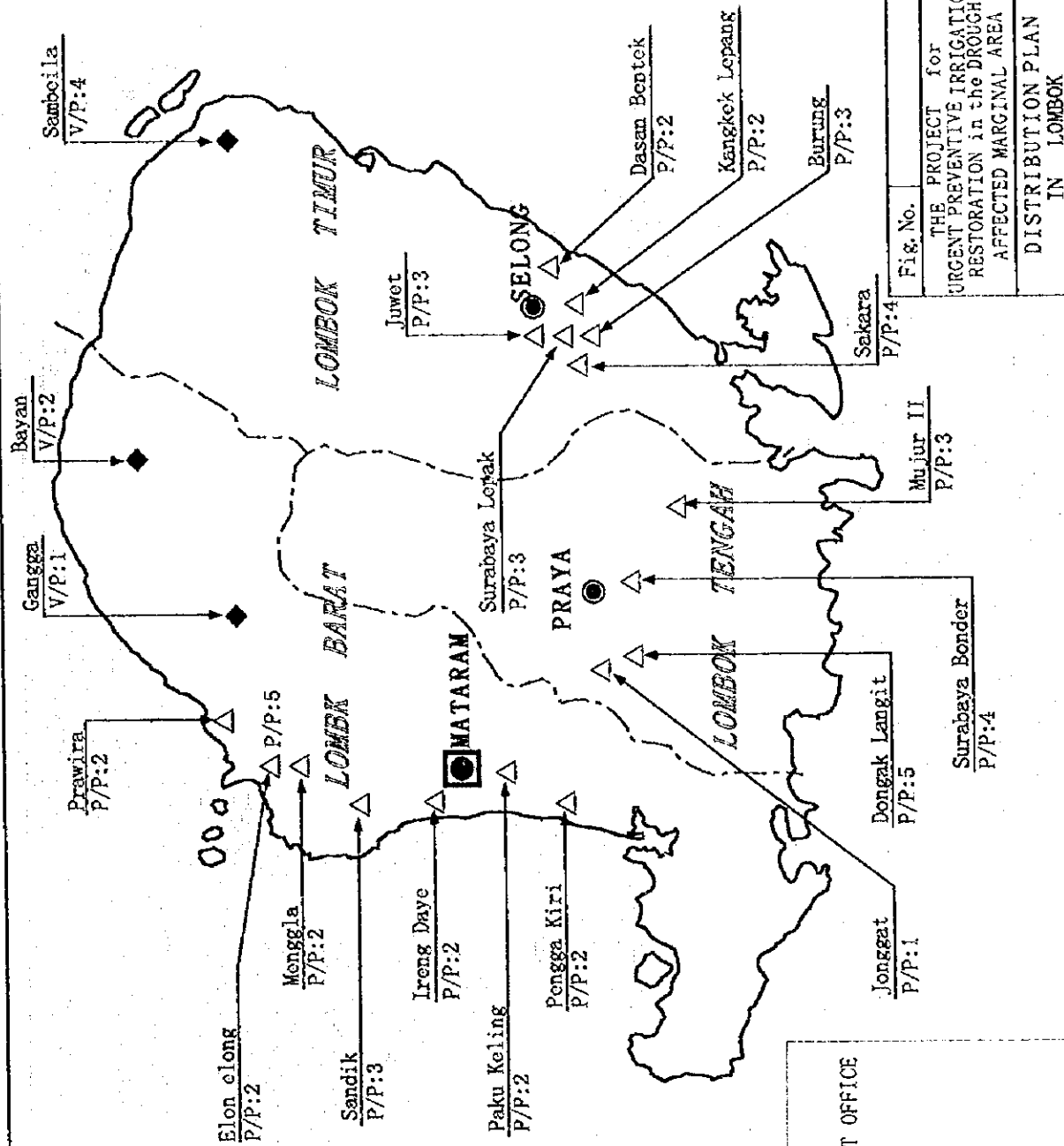
Kabupaten/Kec.	D/R	V/P	R/P	P/P	P/P
Ende	0	2	0	0	16
Nangapanda			1		
Maurolo			1		
Mautenda IV				4	
Mautenda IV				2	
Mautenda IV				8	
Dataranu				2	
Sikka	0	0	0	11	
Teluk Mutiara				11	
Total	0	6	1	55	

Kabupaten/Kec.	D/R	V/P	R/P	P/P	P/P
Flores Timur	0	2	0	9	
Wulargitang			2		
Konga			2		
Lewolaga			2		
Waikuba			1		
Bama			2		
Ngada	0	0	0	5	
Mbay				5	
Alor	0	2	0	0	
Teluk Mutiara			2		

Kabupaten/Kec.	D/R	V/P	R/P	P/P	P/P
Manggarai	0	0	1	14	
Ruteng			1		
Wae Kaap 1				4	
Wae Kaap 2				3	
Wae Mantar 1				3	
Wae Mese				2	
Dampe				2	

P. LOMBOK

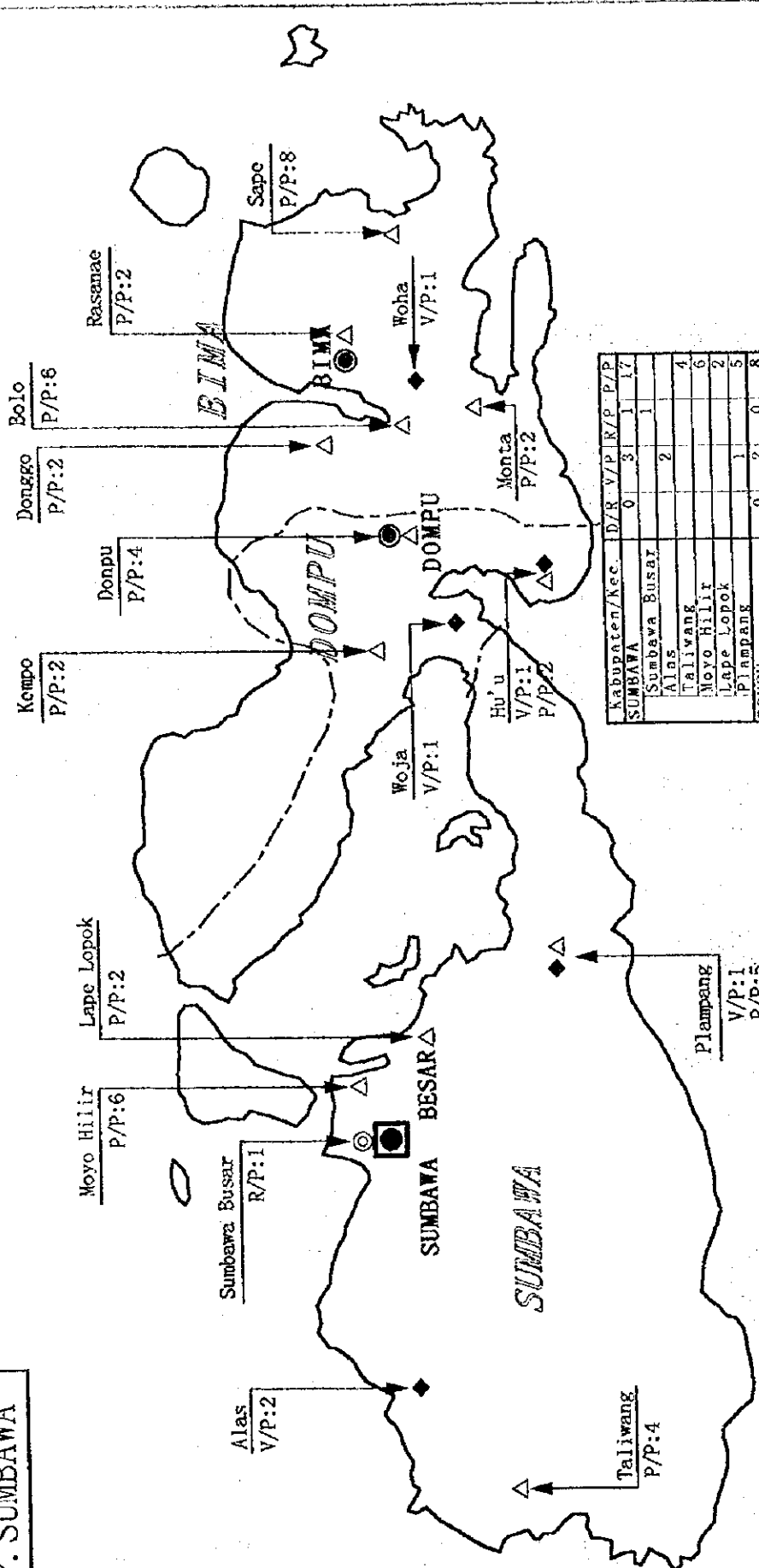
Kabupaten/Kec.	D/R	V/P	R/P	P/P	P/P
Lombok Barat	0	3	0	15	
Gangga			1		
Bayan			2		
Ireng Daye				2	
Prawira				2	
Sandik				3	
Menggla				2	
Elon elong				2	
Paku Keling				2	
Pengga Kiri				2	
Lombok Timur	0	4	0	17	
Sambeila			4		
Juwet				3	
Burung				3	
Surabaya Lepak				3	
Kangkek Lepak				2	
Sakara				4	
Dasan Bantek				2	
Lombok Tengah	0	0	0	13	
Dongak Langit				5	
Surabaya Bondor				4	
Mujur II				3	
Jonggat				1	
Total	0	7	0	45	



LOMBOK IRRIGATION PROJECT OFFICE
 IRRIGATION/GROUNDWATER SUB-PROJECT OFFICE
 CAPITAL CITY OF Kabupaten
 V/P: Vertical Turbine Pump
 P/P: Portable Pump

Fig. No. _____
 THE PROJECT for
 URGENT PREVENTIVE IRRIGATION
 RESTORATION in the DROUGHT
 AFFECTED MARGINAL AREA
 DISTRIBUTION PLAN
 IN LOMBOK

P. SUMBAWA



Kabupaten/Kec.	D/R	V/P	R/P	P/P	P/P
SUMBAWA	0	3	1	1	17
Sumbawa Besar					1
Alas			2		
Taliwang					4
Moyo Hilir					6
Lape Lopok					2
Plampang			1		5
DUMPU	0	2	0	8	
Woja		1			4
Donpu			1		2
Hu'u			1		2
Kempo			0	1	0
BIMA					20
Woja				1	
Bolo					6
Monta				2	
Sape					8
Rasanae					2
Donggo					2
Total	0	6	1	45	

Fig. No. THE PROJECT for URGENT PREVENTIVE IRRIGATION RESTORATION in the DROUGHT AFFECTED MARGINAL AREA DISTRIBUTION PLAN IN SUMBAWA

SUMBAWA IRRIGATION PROJECT OFFICE
 IRRIGATION/GROUNDWATER SUB-PROJECT OFFICE
 IRRIGATION SUB-PROJECT OFFICE
 CAPITAL CITY OF Kabupaten

V/P: Vertical Turbine Pump
 R/P: Removable Pump
 P/P: Portable Pump

9. Outline Drawings of Major Equipment

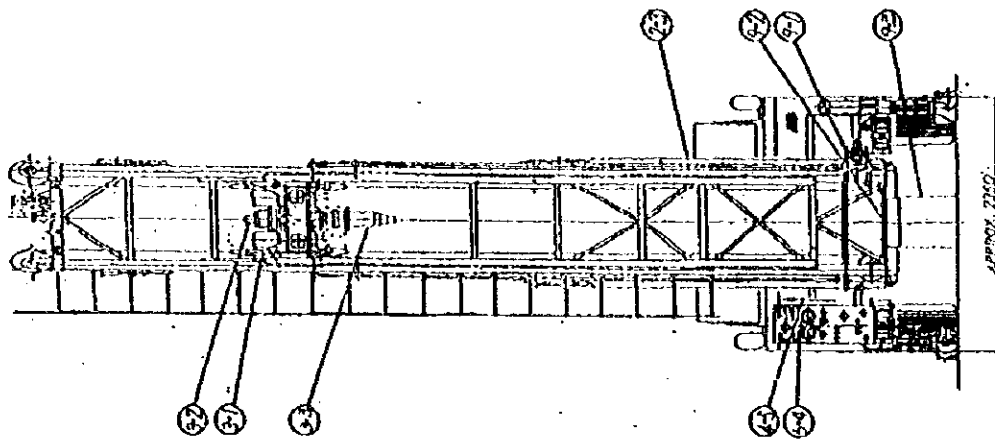
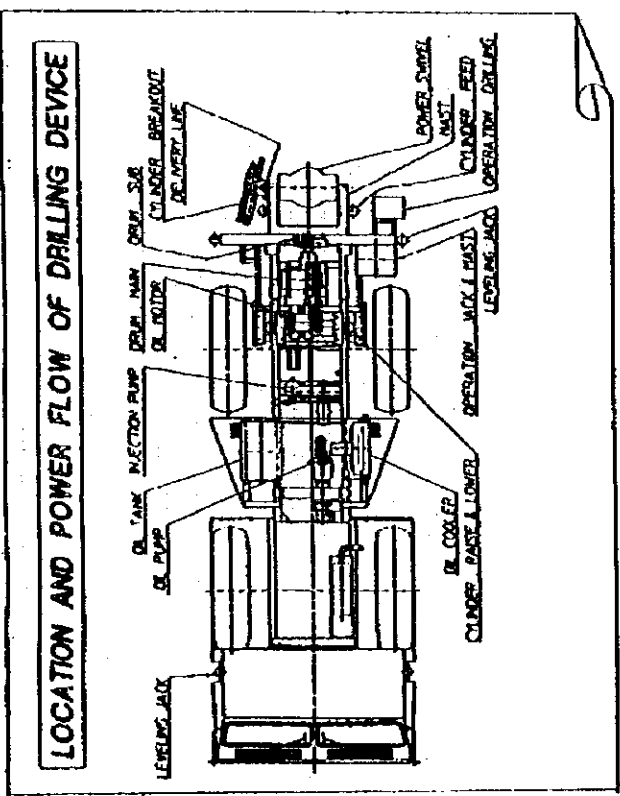
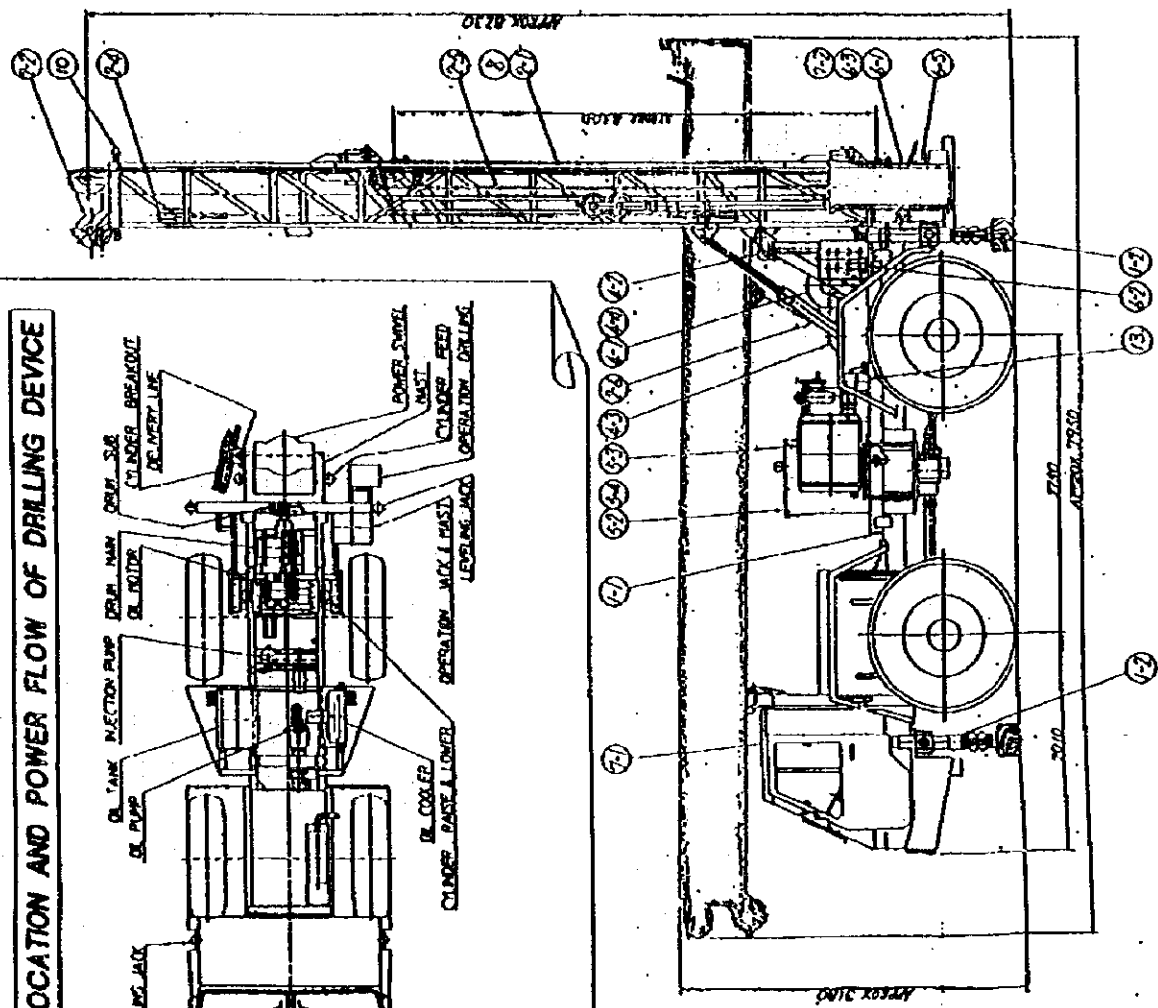


Fig. No. _____
 THE PROJECT for
 URGENT PREVENTIVE IRRIGATION
 RESTORATION in the DROUGHT
 AFFECTED MARGINAL AREA
 OUTLINE DRAWING OF
 DRILLING RIG



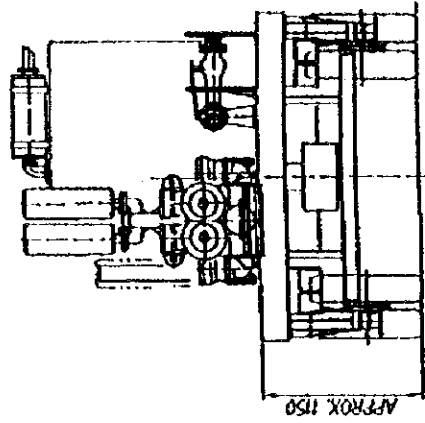
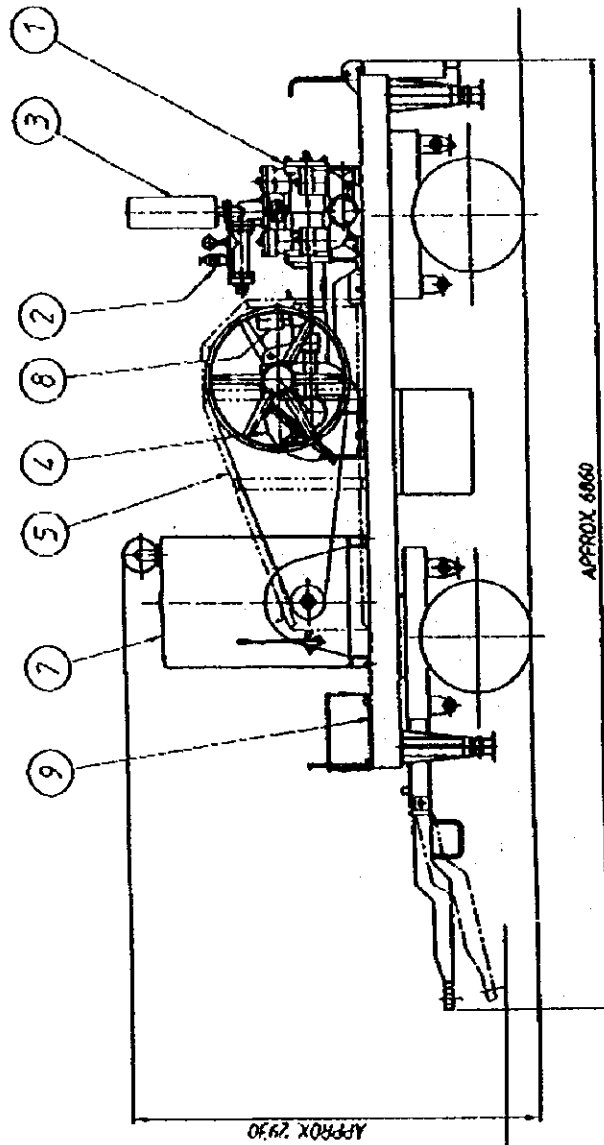
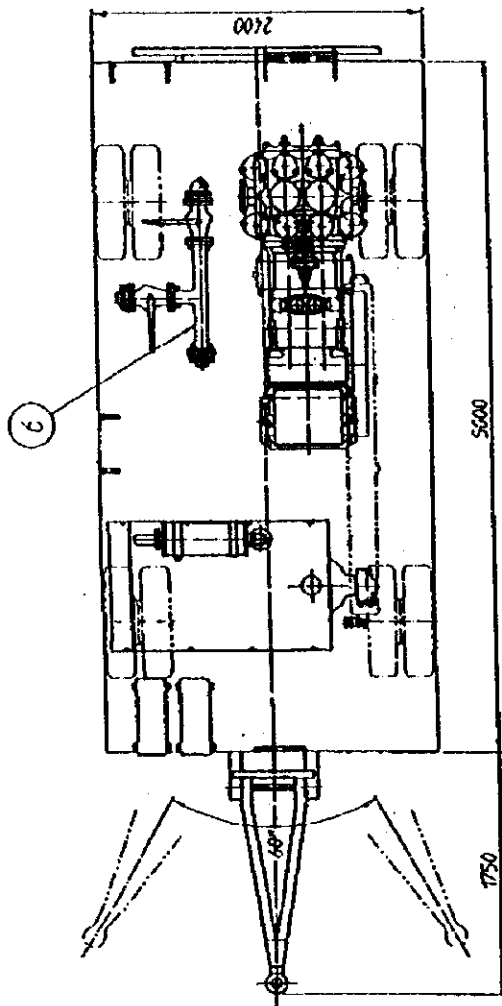


Fig. No. _____
 THE PROJECT for
 URGENT PREVENTIVE IRRIGATION
 RESTORATION in the DROUGHT
 AFFECTED MARGINAL AREA
 OUTLINE DRAWING OF
 M D PUMP

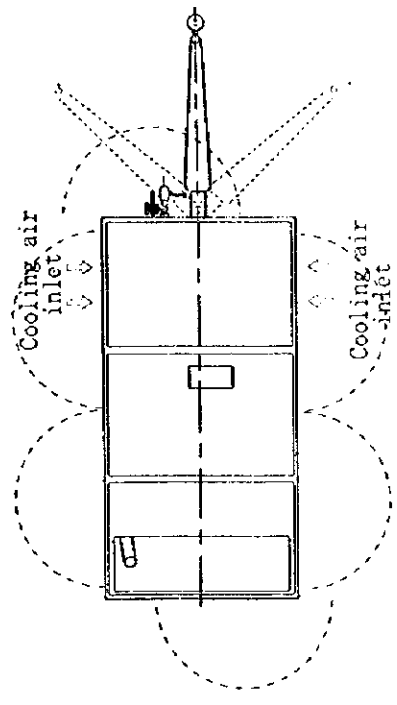
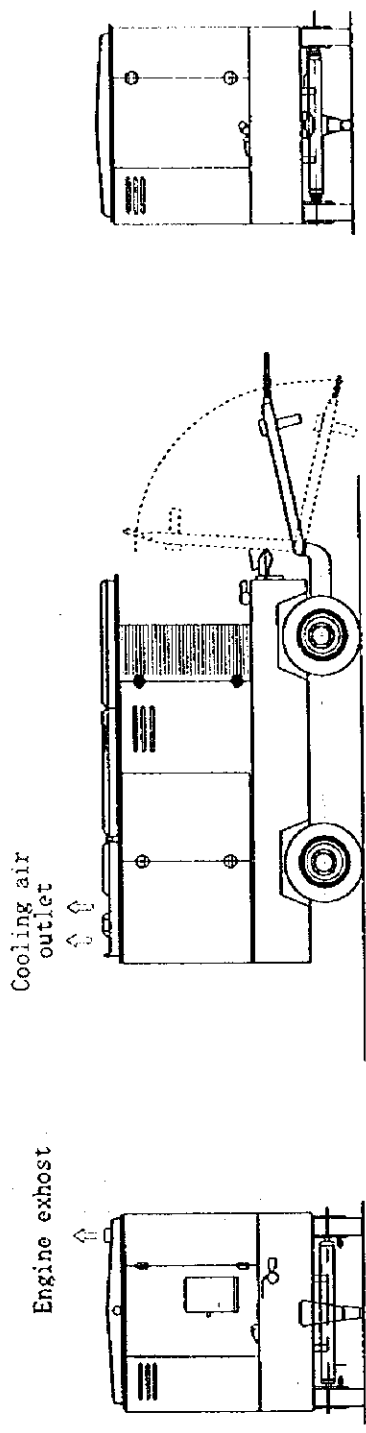


Fig. No. _____

THE PROJECT for
URGENT PREVENTIVE IRRIGATION
RESTORATION in the DROUGHT
AFFECTED MARGINAL AREA

OUTLINE DRAWING OF
AIR COMPRESSOR

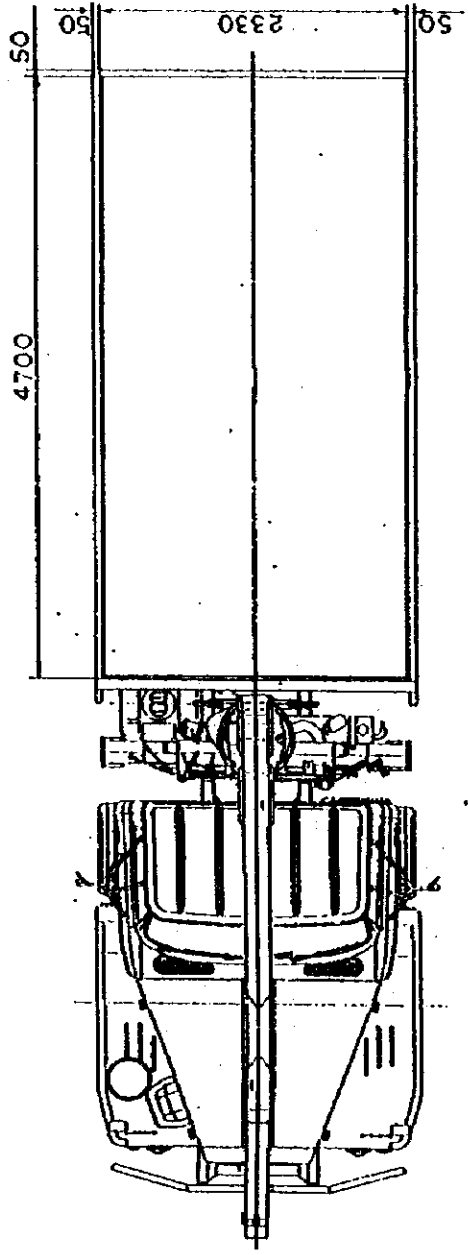
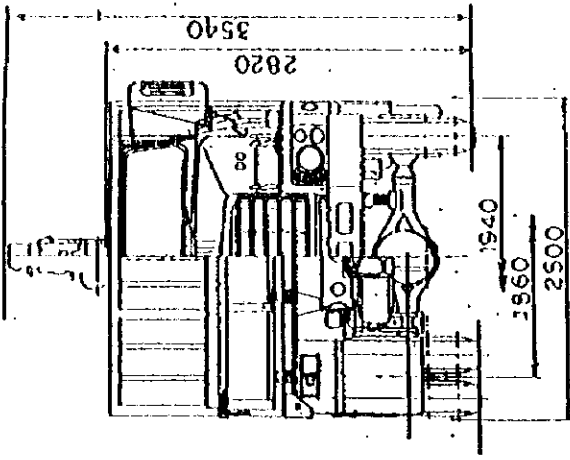
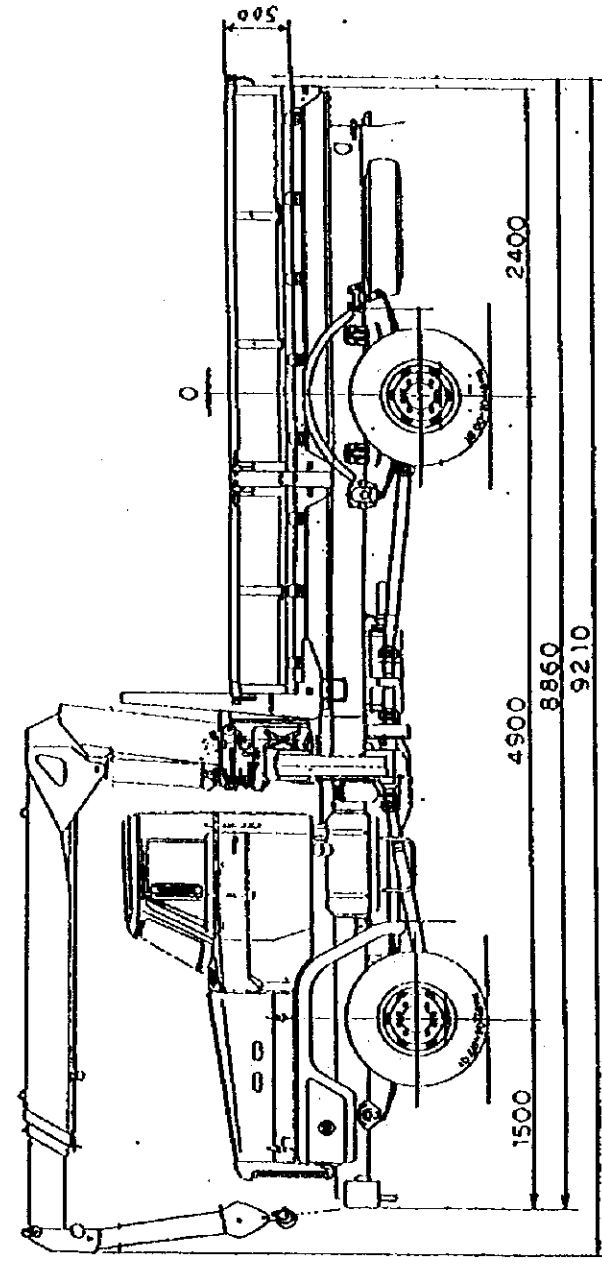


Fig. No. THE PROJECT for URGENT PREVENTIVE IRRIGATION RESTORATION in the DROUGHT AFFECTED MARGINAL AREA
 OUTLINE DRAWING OF CARGOTRUCK with CRANE

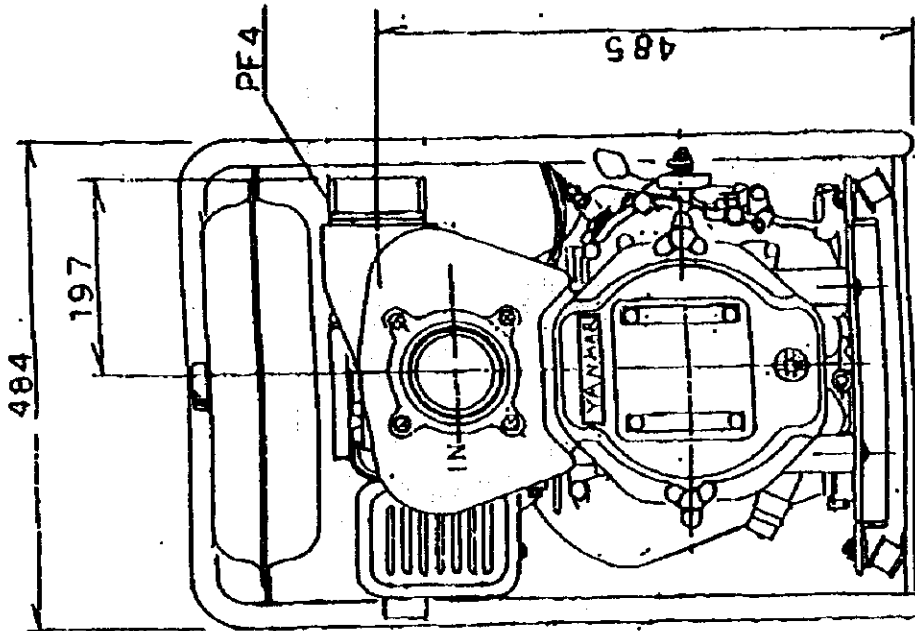
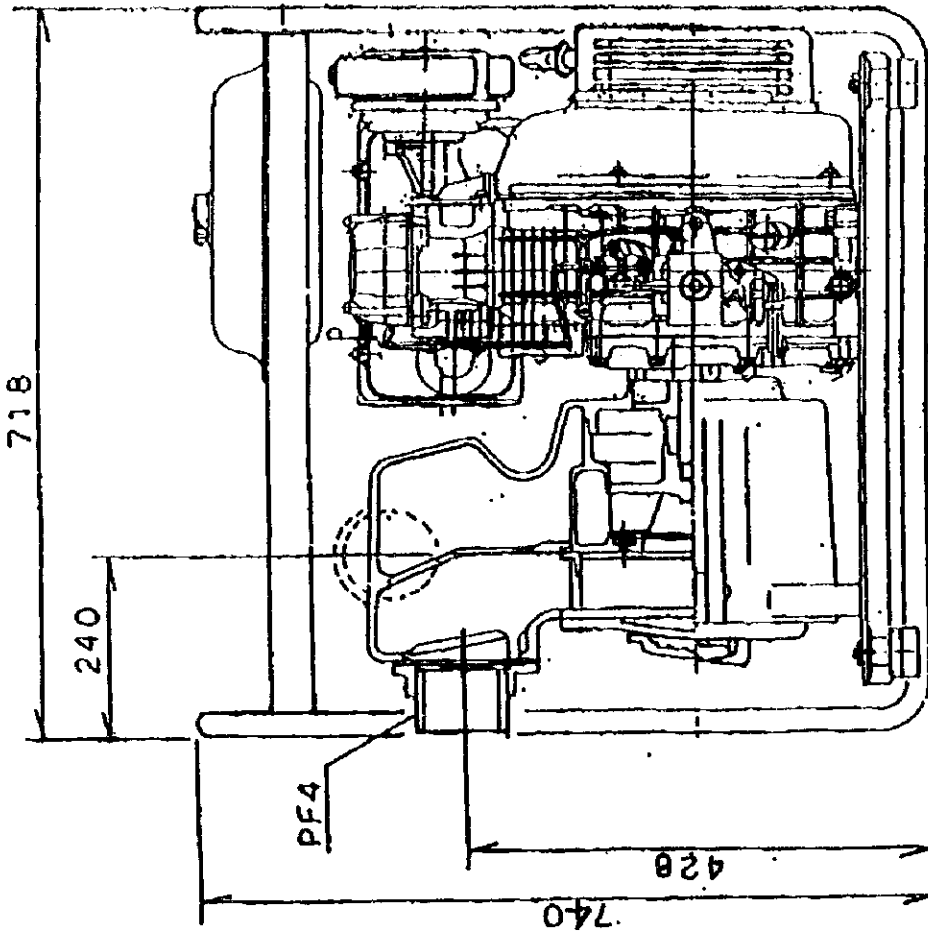


Fig. No.	
THE PROJECT for URGENT PREVENTIVE IRRIGATION RESTORATION in the DROUGHT AFFECTED MARGINAL AREA	
OUTLINE DRAWING OF PORTABLE PUMP	

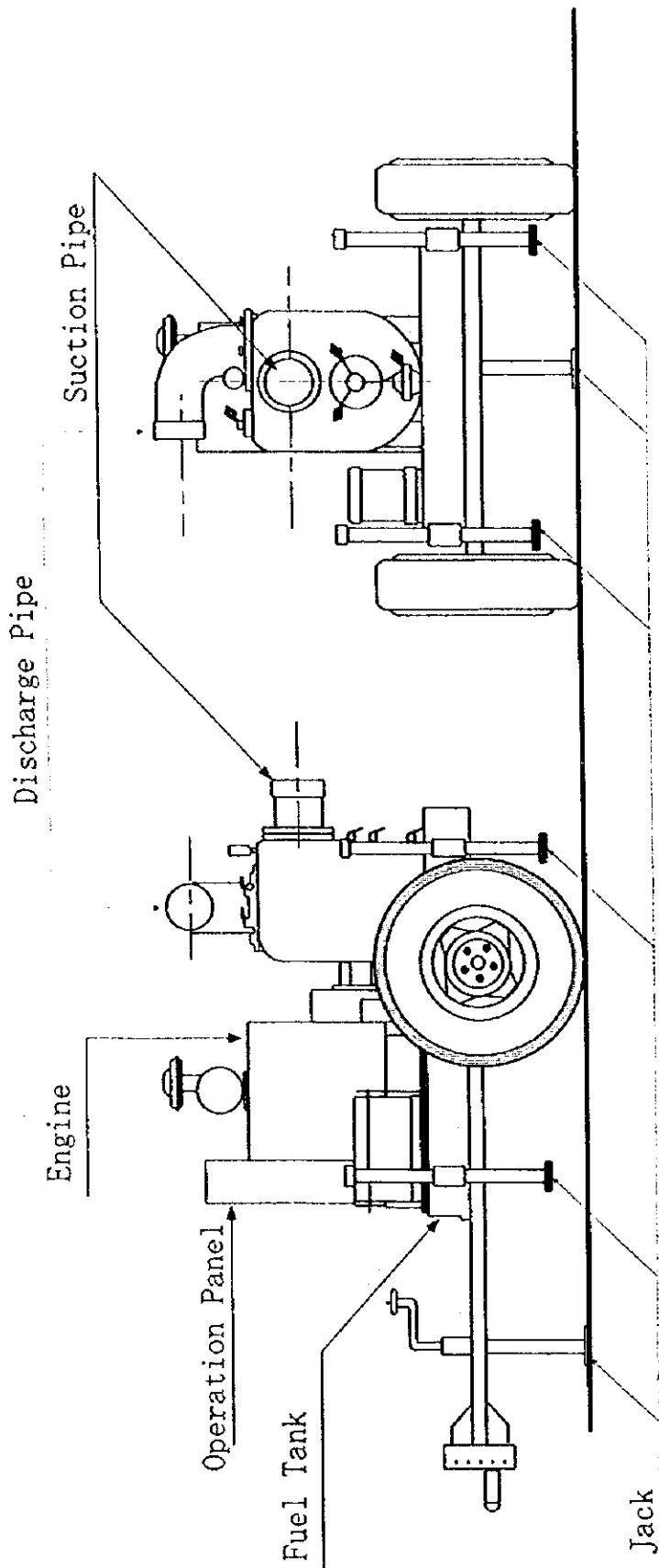


Fig. No.	
THE PROJECT FOR URGENT PREVENTIVE IRRIGATION RESTORATION in the DROUGHT AFFECTED MARGINAL AREA	
OUTLINE DRAWING OF REMOVABLE PUMP	

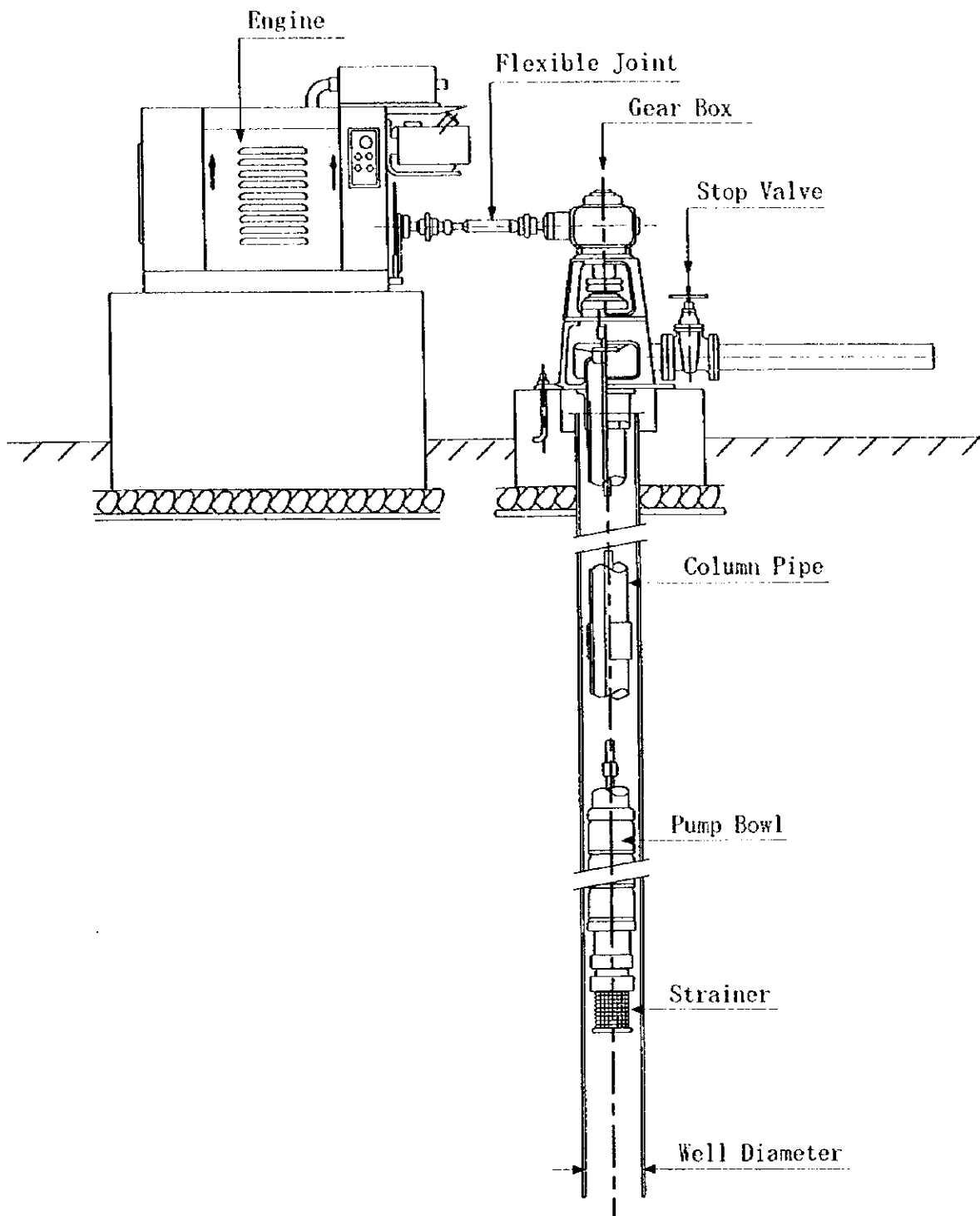


Fig. No.	
THE PROJECT for URGENT PREVENTIVE IRRIGATION RESTORATION in the DROUGHT AFFECTED MARGINAL AREA	
OUTLINE DRAWING OF VERTICAL TURBINE PUMP	

10. Specifications of Major Equipment

MAOJR EQUIPMENT LIST

Name of Equipment	Specifications	Level	Q'ty	Utilization
Drilling Rig (Type A)	<p>Rig Water Well Drilling Rig Mounted on 4X4 Tractor Type of Rig : Top Drive Hammer Type Drilling Method : mud rotary/direct air drilling Drilling Capacity 3-1/2" - 00m, 4-3/4" -200m Power Swivel Load Capacity 7,000 kg Hold-back Capacity 7,000 kg Draw work Line Pull Capacity 3,000 kg Mast Length 8.0 m Hook Load Capacity 6,000 kg Including Standard Accessories</p>	Standard (same as Previous 2 KR Equipment)	1	Digging Water Well
	<p>Tractor Max. Travelling Speed 30 km/h Max. Gradeability 20 deg. Min. Turning Radius 9.50 m Vehicle Weight 4.40 ton Gross Weight(Mounted Rig) 7.50 ton Engine Type Water Cooled Diesel Engine Engine Power 88 ps Max. TPO Power 85 ps</p>			

Name of Equipment	Specifications	Level	Q'ty	Utilization
Drilling Rig (Type B)	<p>Water Well Drilling Rig Mounted on 4X4 Tractor Rig</p> <p>Type of Rig : Top Drive Hammer Type Drilling Method : mud rotary/direct air drilling Drilling Capacity 2-7/8"-200m, 3-1/2"-150m, 4-3/4" 100m</p> <p>Power Swivel Load Capacity 5,500 kg Hold-back Capacity 5,500 kg Draw work Line Pull Capacity 3,000 kg Mast Length 8.0 m Hook Load Capacity 4,400 kg Including Standard Accessories</p> <p>Tractor</p> <p>Max. Travelling Speed 30 km/h Max. Gradeability 20 deg. Min. Turning Radius 9.50 m Vehicle Weight 4.40 ton Gross Weight(Mounted Rig) 7.5 ton Engine Type : Water Cooled Diesel Engine Engine Power 88 ps Max. TPO Power 85 ps</p>	Standard	1	Digging Water Well
Mud Pump (Type A)	<p>Type : Trailer Mount Type with Diesel Engine</p> <p>Pump</p> <p>Pump Capacity 730 liter/min Max. Pressure 34kg/cm²</p> <p>Engine</p> <p>Engine Power 90ps(66kw)</p> <p>Trailer</p> <p>Type 4 wheel full trailer Pay Load 5,000kg</p>	Standard (same as Previous 2 K R Equipment)	1	Pumping into bentonite to protect the digging well

Name of Equipment	Specifications	Level	Q'ty	Utilization
Mud Pump (Type B)	<p>Type : Trailer Mount Type with Diesel Engine</p> <p>Pump</p> <p>Pump Capacity 1.050 liter/min</p> <p>Max. Pressure 24kg/cm²</p> <p>Engine</p> <p>Engine Power 90ps(66kw)</p> <p>Trailer</p> <p>Type 4 wheel full trailer</p> <p>Pay Load 5,000kg</p>	Standard (same as Previous 2 KR Equipment)	1	Pumping into bentonite to protect the digging well
Air Compressor (Type A)	<p>Type : Rotary Twin Screw, Oil Cooled, Trailer Type</p> <p>Working Pressure 12bar</p> <p>Feed Delivery 14m³/s</p>	Standard (same as Previous 2 KR Equipment)	1	Cleaning digging well
Air Compressor (Type B)	<p>Type : Rotary Twin Screw, Oil Cooled, Trailer Type</p> <p>Working Pressure 10bar</p> <p>Feed Delivery 14m³/s</p>	Standard (same as Previous 2 KR Equipment)	1	Cleaning digging well

Name of Equipment	Specifications	Level	Qty	Utilization
Logging Test Equipment	Type : Ground Water Log Measuring Model Depth Range 300m Resistivity (Automatic Range Control) 200, 2k, 10kΩ SP (Automatic) +1,000mV~-1,000mV Gamma (Automatic Range Control) 200, 10k, 50 kcps Recorder Thermal Plotter 100mmwidth Floppy Disk less than 15 kg Battery Pack 12 VDC-24AH Generator AC220 Volt	Standard (same as Previous 2 K R Equipment)	1	Judging aquifer and making program of casing
Cargo Truck with Crane	Driving Type : All wheel Drive(4X4) Type Engine Type : Water Cooled Diesel Engine Engine Power 200 ps Max. Travelling Speed 80 km/h Max. Gradeability 50 % Loading Capacity 5,000kg Rear Body Dimension 4.50m x 2.35m x 0.45m Crane Capacity 3,000kg Boom Type 3 Section Box Boom Towing Devices Hook, Electric Connector, Air Brake Coupler, etc.	Standard (same as Previous 2 K R Equipment)	2	Transport of equipment
Portable Pump (2")	Type : Self-Priming Volute Pump, Engine Drive Suction/Discharge Diameter 2" Max. Discharge 600 liter/min Max. Total Head 28m Engine Air Cooled Diesel Engine Loading Output 4.2ps(3.1kw)	Standard (same as Previous 2 K R Equipment)	67	Pumping up irrigation water from surface water or shallow well

Name of Equipment	Specifications	Level	Qty	Utilization
Portable Pump (3")	Type : Self-Priming Volute Pump, Engine Drive Suction/Discharge Diameter 3" Max. Discharge 1,200 liter/min Max. Total Head 28m Engine Air Cooled Diesel Engine Loading Output 6.0ps(4.4kw)	Standard (same as Previous 2 K R Equipment)	180	Pumping up irrigation water from surface water or shallow well
Portable Pump (4")	Type : Self-Priming Volute Pump, Engine Drive Suction/Discharge Diameter 4" Max. Discharge 1,800 liter/min Max. Total Head 28m Engine Air Cooled Diesel Engine Loading Output 9.0ps(6.6kw)	Standard (same as Previous 2 K R Equipment)	3	Pumping up irrigation water from surface water or shallow well
Removable Pump	Trailer Mount Self-Priming Volute Pump, Engine Drive Suction/Discharge Diameter 6" Max. Discharge 5,000 liter/min Max. Total Head 35m Engine Air Cooled Diesel Engine Loading Output 27.5ps(20.2kw)	Standard (same as Previous 2 K R Equipment)	5	Pumping up surface water providing against in an emergency
Vertical Turbine Pump (900 liter/min)	Vertical Shaft Multi-Stage Turbine Pump, Engine Drive Transmission Engine-Shaft Direct Gear Discharge Pipe Diameter 8" Discharge Pipe Diameter 900 liter/min at 35m head Engine Air Cooled Diesel Engine Loading Output 22.5ps(16.5kw)	Standard (same as Previous 2 K R Equipment)	8	Pumping up irrigation water from deep well

Name of Equipment	Specifications	Level	Qty	Utilization
Vertical Turbine Pump (1,200 liter/min)	Vertical Shaft Multi-Stage Turbine Pump, Engine Drive Transmission Discharge Pipe Diameter 10" Design Discharge 1,200 liter/min at 35m head Engine Air Cooled Diesel Engine Loading Output 38ps(27.9kw)	Standard (same as Previous 2 K R Equipment)	20	Pumping up irrigation water from deep well
Vertical Turbine Pump (1,800 liter/min)	Vertical Shaft Multi-Stage Turbine Pump, Engine Drive Transmission Discharge Pipe Diameter 10" Discharge Pipe Diameter 1,800 liter/min at 35m head Engine Air Cooled Diesel Engine Loading Output 38ps(27.9kw)	Standard (same as Previous 2 K R Equipment)	2	Pumping up irrigation water from deep well

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