

資料 i.

SPARE PARTS FOR EXISTING DRILLING RIGS
AND MACHINERIES FOR DEEP TUBEWELLS

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1. SPARE PARTS FOR ELECTRIC
SUBMERSIBLE MULTISTAGE TURBINE PUMP 1 SET

1-1. Spare Parts for Electric
Submersible Multistage Turbine
Pump, EDARA Model "125BHS2-75 (8GF)" 1 Set

(For pump, EDARA Model "125BHS8-75 (8GF)")

Interstage bushing	8 nos.
Casing ring	8 nos.
Pump shaft	1 no.
Gasket	2 nos.
Oil seal	2 nos.
Fellows	1 no.
Radial bearing	2 nos.
Thrust bearing	1 no.
Upper thrust bearing	1 no.
Pad metal	1 set

(For diesel engine generator,
NIPPON SHARYO SEIZO KAISHA Model "NEP-125")

Seat, valve exh,	11135-1170	3 nos.
Pushing, valve,	11125-1160	6 nos.
Seal, valve guide,	13719-1080	6 nos.
Liner, cyl,	11467-1380	3 nos.
Gasket, liner,	11467-1120	6 nos.
Pin,	9509-05102	3 nos.
Seal, oil,	9828-80102	1 no.
Piston,	13216-1080	2 nos.
Ring set, piston,	13011-1290	1 no.
Pushing, con rod,	04013-2002	2 nos.
Bearing, con rod,	13201-1271	2 nos.
Valve, intake,	13711-1130	2 nos.
Valve, exhaust,	13715-1150	2 nos.
Lock, valve st,	13267-1070	6 nos.
Tapet,	13751-1090	2 nos.
Element, air,	17801-1520	5 nos.
Element oil,	15607-1030	25 nos.
Element fuel,	23401-1040	12 nos.
Pipe fuel, No. 1,	23701-1100	1 no.
- do -, No. 2,	23702-1080	1 no.
- do -, No. 3,	23703-1090	1 no.
Pipe fuel, No. 4,	23704-1090	1 no.
- do -, No. 5,	23705-1090	1 no.
- do -, No. 6,	23706-1090	1 no.
Nozzle tip,	23640-1240	6 nos.
Gasket nozzle,	23661-1030	6 nos.
Washer soft,	9654-16150	4 nos.
Holder nozzle,	23620-1220	1 no.
Washer soft,	9659-14104	8 nos.
Nose rubber,	9002-34136	1 no.
Clamp,	9764-06520	2 nos.
Nose rubber,	9002-34133	1 no.
Clamp,	9764-05020	2 nos.
V-belt set,	9001-49130	1 no.

Seal oil,	9828-01168	1 no.
Sleeve,	13437-1060	1 no.
Brush,	27371-1100	2 nos.
Holder, rectifier,	27356-1130	1 no.
- do -,	27353-1170	1 no.
Bearing,	9900-63042	1 no.
- do -,	9900-62032	1 no.
Engine switch,	2E150-1320	1 no.
Pinion clutch,	28011-1170	1 no.
Rushing,	6033-306221	1 no.
- do -,	6033-306291	1 no.
Thermo switch,	83430-1052	1 no.
Thermostat,	9001-46101	1 no.
Bearing,	9900-63052	1 no.
Seal coolant,	16104-1070	1 no.
Gasket kit,	04010-01100	1 no.
Diode,	PC3X407880	3 nos.
- do -,	P04X407870	3 nos.
Varistor,	P232503420	1 no.
Water volt,	P643518680	1 no.
Meter ampere,	PC5X437640	1 no.
Hose,	PC4X305380	1 no.
Clamp,	P06X305380	2 nos.
Hose,	P17X320500	1 no.
- do -,	P18X320500	1 no.
Clamp,	P19X320500	1 no.
Meter ampere,	P06X437640	1 no.
Meter frequency,	P153509230	1 no.
Light panel,	S105500024	5 nos.
Switch toggle,	S105001010	1 no.
Diode stack,	F243426350	1 no.
- do -,	S106342060	1 no.
Varistor,	P633509920	1 no.
- do -,	P233509930	1 no.
Tachometer,	S106030104	1 no.
Cable tachometer,	S106033301	1 no.
Gauge temp,	F336420820	1 no.
Gauge oil press,	F336420810	1 no.
Switch starter,	S106030603	1 no.
Switch battery,	F236406450	1 no.
Signal heater,	S106030803	1 no.
Switch stop,	S104802240	1 no.
Ammeter,	S106030202	1 no.
Relay safety,	S106031503	1 no.
Regulator,	S106031202	1 no.
Relay stopper,	S105603024	1 no.
Pipe fuel,	S104205210	1 no.
Connector,	S103403001	1 no.
Cock drain,	P150510130	1 no.
Fuse,	P116516400	5 nos.

1-2. Spare Parts for Electric Submersible
Multistage Turbine Pump,
EBARA Model "200BNS2-45 (12G1)" 2 Sets

(For pump, EBARA Model "200BNS2-45 (12G1)")

Interstage bushing		6 nos.
Casing ring		8 nos.
Upper sleeve		2 nos.
Lower sleeve		2 nos.
Spacer sleeve		2 nos.
Gasket		4 nos.
Oil seal		4 nos.
Bellows		2 nos.
Radial bearing		4 nos.
Thrust bearing		2 nos.
Upper thrust bearing		2 nos.
Pad metal		2 nos.

(For diesel engine generator,
NIPPON SHARYO SEIZO KAISHA Model "NEP-73")

Bushing, valve,	11125-1070	12 nos.
Seal, valve guide,	13719-1100	12 nos.
Liner cylinder,	11467-1310	4 nos.
Pin, straight,	9503-05080	4 nos.
Gasket liner,	11471-1080	12 nos.
Bushing, cam, No. 1,	11812-1060	2 nos.
- do -, No. 2,	11822-1070	2 nos.
- do -, No. 3,	11832-1060	2 nos.
- do -, No. 4,	11842-1060	2 nos.
- do -, No. 5,	11852-1050	2 nos.
Seal oil,	9828-75128	2 nos.
Piston,	13216-1050	4 nos.
Ring set std,	13011-1680	2 nos.
Pin piston,	04013-2001	4 nos.
Ring retainer,	9819-40104	12 nos.
Con rod ass'y,	13260-1060	2 nos.
Bushing con rod,	13272-1180	2 nos.
Bearing set, con rod,	13201-1240	2 nos.
Bearing set, crankshaft,	11701-1340	2 nos.
- do -,	11701-1350	2 nos.
- do -,	11701-1330	2 nos.
Washer thrust,	11011-1130	2 nos.
V-belt set,	9001-49113	2 nos.
Seal oil,	9828-01169	2 nos.
Valve intake,	13711-1310	4 nos.
Valve exhaust,	13715-1450	4 nos.
Lock, valve,	9001-26112	12 nos.
Tapet, valve,	13751-1110	6 nos.
Bushing, rocker,	13831-1150	12 nos.
Element oil,	04015-6002	50 nos.
Pump feed,	22560-1370	2 nos.
Hose, fuel,	23806-1410	2 nos.
- do -,	23806-2080	2 nos.
Washer, soft,	9659-14104	6 nos.

Pipe fuel, No. 1,	23711-1190	2 nos.
- do -, No. 2,	23712-1220	2 nos.
- do -, No. 3,	23713-1080	2 nos.
- do -, No. 4,	23714-1080	2 nos.
Pipe fuel, No. 5,	23051-50501	2 nos.
- do -, No. 6,	23716-1240	2 nos.
Holder ass'y, nozzle,	23620-1220	2 nos.
Nozzle ass'y,	23640-1240	12 nos.
Gasket, nozzle,	23661-1030	12 nos.
Thermostat,	9001-46101	2 nos.
Hose water,	9002-34309	2 nos.
Clamp,	9764-04020	4 nos.
Bearing,	9900-62042	2 nos.
Seal, coolant,	16104-1070	2 nos.
Brush,	27371-1060	8 nos.
- do -,	28142-1080	8 nos.
Switch, starting,	28150-1320	2 nos.
Bushing, starting,	60333-06221	2 nos.
- do -,	28711-1090	2 nos.
Gasket kit,	04010-0066	2 nos.
Element fuel,	23303-1040	24 nos.
Diode,	P03X407880	6 nos.
- do -,	P04X407870	6 nos.
Varistor,	P232503420	2 nos.
Meter, volt,	P113519910	2 nos.
Meter, ampere,	P04X437640	2 nos.
Meter, frequency,	P153509230	2 nos.
Fuse,	F11X201050	10 nos.
Light panel,	S105500024	10 nos.
Switch toggle,	S105000015	2 nos.
Diode stack,	P233407730	2 nos.
- do -,	S106342060	2 nos.
Tachometer,	S106030104	2 nos.
Cable tachometer,	S106033301	2 nos.
Gauge temp,	F336420820	2 nos.
Gauge oil press,	F336420810	2 nos.
Switch starter,	S106030603	2 nos.
Switch battery,	P236406450	2 nos.
Signal heater,	S106030803	2 nos.
Switch stop,	S104802240	2 nos.
Lamp,	S106011002	2 nos.
Relay safety,	S106031503	2 nos.
Regulator,	S106031202	2 nos.
Relay,	S106031701	2 nos.
Relay stopper,	S105503024	2 nos.
Relay,	S106031702	2 nos.
Pipe fuel,	S104205210	2 nos.
Connector,	S103403001	2 nos.
Varistor,	P25X201050	2 nos.
- do -,	P26X201050	2 nos.
Hose rubber,	P17X320280	2 nos.
- do -,	P18X320280	2 nos.
Clamp,	P19X320280	2 nos.

1-3. Spare Parts for Electric Submersible
 Multistage Turbine Pump,
EBARA Model "200BHS2-75 (12G2)" 2 Sets

(For pump, EBARA Model "200BHS2-75 (12G2)")

Interstage bushing		6 nos.
Casing ring		8 nos.
Upper sleeve		2 nos.
Lower sleeve		2 nos.
Spacer sleeve		2 nos.
Gasket		4 nos.
Oil seal		4 nos.
Bellows		2 nos.
Radial bearing		4 nos.
Thrust bearing		2 nos.
Upper thrust bearing		2 nos.
Pad metal		2 nos.

(For diesel engine generator,
 NIPPON SHARYO SEIZO KAISHA Model NEP-125")

Seat, valve ex,	11135-1170	6 nos.
Bushing, valve,	11125-1160	12 nos.
Seal, valve guide,	13719-1080	12 nos.
Liner, cyl,	11467-1380	6 nos.
Gasket, liner,	11467-1120	12 nos.
Pin,	9509-05102	6 nos.
Seal oil,	9828-80102	2 nos.
Piston,	13216-1080	4 nos.
Ring set, piston,	13011-1290	2 nos.
Bushing, con rod,	04013-2002	4 nos.
Bearing, con rod,	13201-1271	4 nos.
Valve, intake,	13711-1130	4 nos.
Valve, exhaust,	13715-1150	4 nos.
Lock, valve std,	13267-1070	12 nos.
Tappet,	13751-1090	4 nos.
Element air,	17801-1520	10 nos.
Element oil,	15607-1030	50 nos.
Element fuel,	23401-1040	24 nos.
Pipe fuel, No. 1,	23701-1100	2 nos.
- do -, No. 2,	23702-1080	2 nos.
- do -, No. 3,	23703-1090	2 nos.
- do -, No. 4,	23704-1090	2 nos.
- do -, No. 5,	23705-1090	2 nos.
- do -, No. 6,	23706-1090	2 nos.
Nozzle tip,	23640-1240	12 nos.
Gasket nozzle,	23661-1030	12 nos.
Washer soft,	9654-16150	8 nos.
Holder nozzle,	23620-1220	2 nos.
Washer soft,	9659-14104	16 nos.
Hose rubber,	9002-34136	2 nos.
Clamp,	9764-06520	4 nos.
Hose rubber,	9002-34133	2 nos.
Clamp,	9764-05020	4 nos.

V-belt set,	9001-49130	2 nos.
Seal oil,	9828-01168	2 nos.
Sleeve,	13437-1060	2 nos.
Brush,	27371-1100	4 nos.
Holder, rectifier,	27356-1130	2 nos.
- do -,	27353-1170	2 nos.
Bearing,	9900-63042	2 nos.
- do -,	9900-62032	2 nos.
Engine switch,	28150-1320	2 nos.
Pinion clutch,	28011-1170	2 nos.
Bushing,	6033-306221	2 nos.
- do -,	6033-306291	2 nos.
Thermo switch,	83430-1052	2 nos.
Thermostat,	9001-46101	2 nos.
Bearing,	9900-63052	2 nos.
Seal coolant,	16104-1070	2 nos.
Gasket kit,	04010-G1100	2 nos.
Diode,	P03X407880	6 nos.
Diode,	P04X407870	6 nos.
Varistor,	P232503420	2 nos.
Meter volt,	P643518680	2 nos.
Meter ampere,	P05X437640	2 nos.
Hose,	P04X305380	2 nos.
Clamp,	P06X305380	4 nos.
Hose,	F17X320500	2 nos.
- do -,	F18X320500	2 nos.
Clamp,	F19X320500	2 nos.
Meter ampere,	P06X437640	2 nos.
Meter frequency,	F153509230	2 nos.
Light panel,	S105500024	10 nos.
Switch toggle,	S105001010	2 nos.
Diode stack,	P243426350	2 nos.
- do -,	S106342060	2 nos.
Varistor,	P633509920	2 nos.
- do -,	P233509930	2 nos.
Tachometer,	S106030104	2 nos.
Cable tachometer,	S106033301	2 nos.
Gauge temp,	P336420820	2 nos.
Gauge oil press,	P336420810	2 nos.
Switch starter,	S106030603	2 nos.
Switch battery,	P236406450	2 nos.
Signal heater,	S106030803	2 nos.
Switch stop,	S104802240	2 nos.
Ammeter,	S106030202	2 nos.
Relay safety,	S106031503	2 nos.
Regulator,	S106031202	2 nos.
Relay stopper,	S105603024	2 nos.
Pipe fuel,	S104205210	2 nos.
Connector,	S103403001	2 nos.
Cock drain,	F150510130	2 nos.
Fuse,	F116516400	10 nos.

2. SPARE PARTS FOR TRUCK MOUNTED WATER WELL DRILLING RIGS, ROTARY TABLE TYPE, DRIVEN THROUGH P.T.O. OF TRUCK ENGINE, TONE MODEL "TRD-500" 4 SETS

(For jack ass'y)

Plate,	D2607-036	16 nos.
Packing,	SKY-50	16 nos.
- do -,	SKY-80	32 nos.
Back-up ring for SKY-50		16 nos.
- do -, for SKY-80		32 nos.
Eslight wearing,	SW 90 20 3	32 nos.
Dust seal,	DKI 50 62 7 10	16 nos.
O-ring,	G110	16 nos.
Snap ring,	BR-62	16 nos.
Shackle,	SC6-N	32 nos.

(For cylinder ass'y)

Rod, piston,	D2841-547	4 nos.
Cylinder,	D2922-764	4 nos.
Packing,	SKY-25	4 nos.
Scraper,	SDR-25	4 nos.
O-ring,	P16	4 nos.
- do -,	P39	4 nos.
- do -,	G40	8 nos.
Back-up ring for SKY-25		4 nos.
- do -, for P39		8 nos.
Piston,	E2556-334	4 nos.

(For rotary table ass'y)

Gear, bevel,	C1117-427	4 nos. :
- do -,	C1117-428	4 nos. :
Liner,	D2705-547	16 nos.
- do -,	D2705-548	8 nos.
- do -,	D2705-549	8 nos.
Plate,	D2607-080	4 nos.
- do -,	D2607-081	4 nos.
Collar,	E1815-056	4 nos.
- do -,	D1815-057	4 nos.
Bearing,	D0285-051	4 nos.
Spider bearing,	8.SBL	4 nos.
Mach. screw, cross-recessed flat head, M6 x 12L		240 nos.

(For chain ass'y)

Bushing,	E0267-055	48 nos.
Arm,	D0001-318	8 nos.
Bolt,	E0325-275	8 nos.
- do -,	D0325-276	8 nos.
Nut,	D2162-401	8 nos.
Spring,	SC102508	8 nos.
Deceleration valve,	ZCT-03-C-22	8 nos.
Chain,	483 links, RS100	8 nos.
- do -,	385 links, RS100	8 nos.

(For damper ass'y)

Spring,	SC110010	16 nos.
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(For gearing ass'y)		
Oil motor,	ME175-P	4 nos.
Bearing,	6028Z	8 nos.
(For water swivel ass'y)		
Elbow, 3" x 90 deg.,	E0720-058	4 nos.
Gland packing,	E1150-387	4 nos.
- do -,	E1150-414	4 nos.
- do -,	E1150-415	8 nos.
- do -,	E1150-416	4 nos.
Packing,	E2528-602	96 nos.
Case,	D1908-942	4 nos.
Sleeve,	D2958-531	8 nos.
Roller,	E2842-341	8 nos.
Bushing,	E0267-687	8 nos.
Bearing,	6019LB	8 nos.
Bearing thrust,	51322	8 nos.
Oil seal,	SB 110 140 14	8 nos.
O-ring,	G180	4 nos.
- do -,	G125	4 nos.
- do -,	G115	4 nos.
- do -,	G80	8 nos.
(For derrick ass'y)		
Pulley,	D2605-166	8 nos.
- do -,	D2605-167	12 nos.
Bearing,	SL04-5015NR	12 nos.
- do -,	SL04-5010NR	8 nos.
(For cylinder ass'y)		
Rod, piston,	D2841-546	8 nos.
O-ring,	G130	16 nos.
Packing,	UPI 70 90 12	8 nos.
- do -,	SKY 98 112 8.5	16 nos.
Back-up ring,	TC-SKY-98	16 nos.
Eslight wearing,	SW-112	16 nos.
Dust seal,	DKI 70 84 8 11	8 nos.
(For gearing ass'y)		
Gear, bevel, D1117-451	70-2142	4 nos.
Gear, spur,	D1121-308	8 nos.
- do -,	D1121-692	4 nos.
- do -,	D1121-693	4 nos.
- do -,	D1121-694	4 nos.
Sprocket,	D2967-394	8 nos.
Bearing,	6314	16 nos.
Roller chain, SUPER 80-2,	94 link	4 nos.
- do -, SUPER 80-2,	110 link	4 nos.
(For gauge ass'y)		
Gauge ass'y,	C5276-068	8 sets
(For lever ass'y)		
Piece, shifter,	E2557-049	8 nos.
Shear pin,	3/8 x 18L	8 nos.
(For tension pulley ass'y)		
Sprocket,	E2967-397	8 nos.
Bearing,	6005LB	16 nos.
(For brake ass'y, main drum)		
End, yoke,	D0721-336	8 nos.

Plate,	E2607-090	8 nos.
Lining,	D2706-078	40 nos.
- do -,	D2706-081	8 nos.
Brake band. ass'y,	C4049-115	8 sets
- do -,	C4049-116	8 sets
Mach. screw flat head (BS), M6 x 30L		112 nos.
- do -,	M6 x 20L	224 nos.
Nut,	M6-1	224 nos.
Washer, lock,	M6	224 nos.
(For brake ass'y, sandreel)		
Plate,	E2615-697	4 nos.
Rod,	E2840-474	4 nos.
Brake band ass'y,	C4049-095	4 sets
Mach. screw, flat head, M6 x 22L		8 nos.
- do -,	M6 x 16L	20 nos.
- do -,	M6 x 25L	16 nos.
- do -,	M6 x 30L	16 nos.
- do -,	M6 x 35L	12 nos.
Nut,	M6-1	64 nos.
Washer, lock,	M6	64 nos.
(For drum ass'y)		
Bushing,	E0267-684	4 nos.
Key,	E1837-374	4 nos.
Piece, shifter,	E2557-073	20 nos.
Plate, pressure,	C2601-017	4 nos.
Plate,	D2607-098	4 nos.
Roller,	E2842-340	12 nos.
Facing, clutch,	E1005-017	8 nos.
Clutch disc ass'y,	D4457-007	4 sets
Lining, rivet,	4 ϕ x 15L	64 nos.
Spring,	ST1-040-05	36 nos.
Bearing,	6024ZZ	4 nos.
(For lever ss'y, main and sandreel)		
Jaw,	E1760-004	8 nos.
Stopper,	D2962-311	8 nos.
(For lever ass'y, transmission)		
Lever,	C2816-028	4 nos.
Rod end,	NTN SF1-16	4 nos.
(For transmission ass'y)		
Clutch disc,	E0551-016	4 sets
Drive shaft,	5BL-290L	4 sets
- do -,	NTN BJ175CLP955	4 sets
Plate ass'y,	D4640-245	4 sets
(For gearing ass'y)		
Bolt,	E0326-581	16 nos.
Collar,	E1828-574	4 nos.
Sprocket,	D2967-410	4 nos.
- do -,	D2967-438	4 nos.
- do -,	D2967-439	4 nos.
Plate ass'y,	D4640-347	4 sets
Drive shaft,	6BL-1040L	4 sets
Clutch disc ass'y, CSW43, 43401-00000		4 sets

Release bearing,	03452-21003	4 nos.
Trochoid pump,	N.O.P. TOP10A	4 nos.
HY-VO chain,	HV-612, 96 links	4 nos.
V-belt,	5V-1000	36 nos.
- do -,	3V-750	16 nos.
(For oil pump ass'y)		
Oil pump,	GPPO-AOD25A-R	4 nos.
(For oil tank ass'y)		
Suction strainer,	MST-10-150	4 nos.
(For cylinder ass'y)		
Bracket,	C0269-867	4 nos.
Pin,	E2559-694	4 nos.
O-ring,	P65	4 nos.
- do -,	G86	4 nos.
Back-up ring for P65		8 nos.
Packing,	SKY-30	4 nos.
Scraper,	SDR-30	4 nos.
Cap screw, hex. socket head, M12 x 40		16 nos.
(For control cable)		
Control cable,	43100-B-6500	12 nos.
- do -,	43100-B-7500	8 nos.
- do -,	32050-B-4700	4 nos.
- do -,	32050-B-4500	4 nos.
- do -, V700-32100-B-11000		4 nos.
(For mud pump)		
Box, stuffing,	D0334-072	8 nos.
Gland packing,	E1150-251	8 nos.
- do -,	E1150-252	8 nos.
Keeper,	E1835-013	8 nos.
Rubber, packing,	E2702-172	8 nos.
Liner,	E2705-206	8 nos.
Rod, piston,	D2841-151	8 nos.
Seat, conical valve,	D2915-028	32 nos.
Valve ass'y, conical,	D4057-038	32 sets
Guide, valve,	D1081-025	32 nos.
Seat, rubber,	E2917-026	32 nos.
Piston ass'y, 7-1/2",	D4641-067	8 sets
Body, piston,	D0337-039	8 nos.
Piston rubber,	7-1/2" OH	16 nos.
Spring,	SC205001	64 nos.
V-packing, (NOK) VP969F55 80 4.2		432 nos.
O-ring,	F60	8 nos.
- do -,	P90	8 nos.
- do -,	P120	4 nos.
- do -,	P160	32 nos.
- do -,	P235	8 nos.
- do -,	G165	12 nos.
Pin, 20 kg/cm ² ,	E2555-522	32 nos.
Rod,	E2840-856	4 nos.
O-ring,	P22	8 nos.
Packing,	CPI 55 12 3 25	8 nos.
(For delivery line ass'y)		
Diaphragm,	E0540-002	12 nos.
Pressure gauge, AU3/8 x 100ø x 70K		8 nos.

O-ring,	P120	4 nos.
- do -,	G70	4 nos.
(For crank disc ass'y)		
Gear spur,	C1116-650	4 nos.
- do -	C1116-630	4 nos.
Liner,	D2705-205	8 nos.
Crosshead ass'y,	D4465-012	8 sets
Pin,	E2565-124	8 nos.
Bearing, roller,	SL01-4852	8 nos.
- do -,	22315	8 nos.
- do -,	22320	8 nos.
Graphite packing,	3/80 x 430L	12 nos.
(For lubricator ass'y)		
Lubricator ass'y,	C5676-018	8 sets
(For lighting ass'y)		
Snap switch with semi-water proof cap,	S-821	4 nos.
Plug and socket (water proof type),		16 nos.
125V, 15A, 3 phase		
Lamp,	HSS-620E	32 nos.
(For hydraulic circuit and delivery line)		
Ball valve, flange type, 3B x 20K		12 nos.
Multi-control valve,		
CMT06F-DDEEE-00000-L-10		4 sets
Oil cooler,	AOA-E108N-C	4 sets
Line filter, UL-08-10 micron-C		4 sets
Element for UL-08, 10 micron		16 nos.
Suction filter, ISH-08-10 micron		4 sets
3-way switch valve,	HBV-T03-1032	4 nos.
Relief valve,	BG-03, BGM-03X	8 nos.
- do -,	BG-06, BGM-06X	4 nos.
Throttle check valve,		
TC-06G-230, ST-06-04PT230		4 nos.
Flow control valve,		
FTG03-42-21, ZFT-03Y-C-22		4 nos.
Needle valve,	8NV-600S	8 nos.
Throttle check valve,	8F-600S	8 nos.
Double safety valve,	VWS-0302	4 nos.
Inline check valve,	VCH-06-02	16 nos.
- do -,	VCH-10-01	4 nos.
Gauge, bit load,	D1185-176	4 nos.
Slottle check valve,	HFC-03	8 nos.
Pressure gauge, AU1/4 x 60φ x 250K		4 nos.
- do -, AU1/4 x 60φ x 250K		4 nos.
Pressure gauge,	213-63-250F	4 nos.
- do -,	213-63-60F	4 nos.
Toggle switch,	S-821	4 nos.
Circuit breaker, HBtype (2P2E),		
BS2023, 30A, 220V		4 nos.
(For truck, HINO Model "WG140E)		
Eng. o/h kit,	O4010-0112	4 nos.
Bushing, valve guide in, 11122-1100		24 nos.
Bushing, valve guide ex, 11126-1080		24 nos.

Gasket, cyl head,	11115-1202	8 nos.
Liner, cyl,	11461-1020	24 nos.
Gasket, cyl liner,	11471-1040	24 nos.
Gasket, oil pan,	12151-1281	4 nos.
Washer, soft,	9659-30101	200 nos.
Piston, s/s,	13216-1170	24 nos.
Ring set, piston, std	13011-1660	4 nos.
Pin kit,	04013-2007	4 nos.
Bolt, conrod,	13265-1020	24 nos.
Washer, conrod,	13267-1070	200 nos.
Bearing set, conrod, std,	13201-1271	4 nos.
Bearing set, crankshaft,	11701-1491	4 nos.
Washer set, crankshaft,	11011-1200	4 nos.
V-belt set,	9001-49169	16 nos.
V-belt,	9001-45215	20 nos.
Valve, intake, std,	13711-1250	24 nos.
Valve, exh, std,	13715-1390	24 nos.
Spring, valve,	13732-1150	24 nos.
Spring, valve, outar,	13731-1180	24 nos.
Lock, valve spg,	9001-26103	200 nos.
Gasket, intake mfld,	17171-1280	24 nos.
Gasket, exh mfld,	17173-1470	24 nos.
Element set,	15607-1030	40 nos.
Switch ass'y,	84380-1020	4 nos.
Nozzle ass'y,	23640-1250	40 nos.
Seal sub ass'y, coolant,	16104-1070	8 nos.
Thermostat,	04016-6008	8 nos.
Switch ass'y, start,	28150-1310	4 nos.
Switch ass'y, oil press,	83530-1070	4 nos.
Gage ass'y, water temp,	83420-1060	4 nos.
Pinion ass'y, start,	28250-1010	4 nos.
Cap ass'y,	77320-1040	4 nos.
Cap sub ass'y, rad,	16401-1030	4 nos.
Hose, rad,	9001-44452	8 nos.
- do -,	9001-44450	8 nos.
Gasket, exh pipe,	17451-1160	8 nos.
Gasket, exh brake,	17485-1040	8 nos.
Element sub ass'y, a/c,	17801-1530	4 nos.
Sealedbeam unit,	9008-21105	4 nos.
- do -,	9008-21106	4 nos.
Bulb,	9008-32132	40 nos.
- do -,	9008-32104	40 nos.
- do -,	9008-32150	40 nos.
- do -,	9008-32139	40 nos.
- do -,	9008-32146	40 nos.
- do -,	9008-32136	40 nos.
Flasher ass'y, turn sign,	81980-1100	4 nos.
Switch ass'y, start,	84510-1200	4 nos.
Switch ass'y, turn sign,	84310-1120	4 nos.
Fuse,	9008-57105	200 nos.
- do -,	9008-57124	200 nos.
- do -,	9008-57108	200 nos.
- do -,	9008-57111	200 nos.

Fuse,	9008-57107	200 nos.
Blade ass'y, wiper,	85220-1110	16 nos.
Disc ass'y, clutch,	31250-2420	8 nos.
Disc, clutch,	31251-1470	8 nos.
Rivet,	9479-05110	400 nos.
Cover ass'y, clutch,	31210-1063	4 nos.
Gasket, brg retainer, FR,	33132-1040	8 nos.
Gasket, brg rtainer, RR,	33142-1261	8 nos.
Gasket, t/m PTO,	33162-1060	8 nos.
Seal, oil,	9828-75119	8 nos.
Switch ass'y, back up,	84210-1030	4 nos.
Spider, U-joint,	37411-1020	8 nos.
Joint ass'y, univ,	37400-1120	40 nos.
Spider, U-joint,	37411-1070	8 nos.
Bearing, needle roller,	9885-29102	40 nos.
Washer, lock,	9279-08104	400 nos.
- do -,	9279-10108	400 nos.
Cushion, center supt br,	37235-1090	4 nos.
Cable sub ass'y, p/b,	46401-1581	4 nos.
Spring ass'y, FR,	48110-1630	4 nos.
- do -,	48110-1640	4 nos.
Center bolt,	04234-2110	8 nos.
- do -,	04234-1140	8 nos.
Pin, spg,	48423-1280	16 nos.
Shockabsorber ass'y,	48500-1120	8 nos.
U-bolt, leaf spg,	9004-84123	8 nos.
- do -,	9004-84124	8 nos.
Nut,	9229-24102	40 nos.
Washer, thrust,	9003-13173	40 nos.
Washer, plain,	9269-30105	40 nos.
Spring ass'y, RR,	48210-1370	4 nos.
Center bolt,	04234-2120	16 nos.
U-bolt,	04233-2330	16 nos.
Seal, oil,	9828-01118	8 nos.
Bushing,	9867-00105	8 nos.
Bushing sub ass'y, rubber,	49305-1030	16 nos.
Cable ass'y, speed driv,	83710-8980	4 nos.
- do -,	83710-3551	4 nos.
- do -,	83710-3420	4 nos.
Gasket, axle,	42321-1020	40 nos.
Washer, thrust,	9003-13213	40 nos.
Bearing, thrust,	9882-85101	8 nos.
O-ring,	9851-01151	8 nos.
Seal, oil,	9828-01127	8 nos.
Gasket, axle,	42321-1140	8 nos.
Bolt, hub, LH,	9004-26105	40 nos.
- do -, RH,	9004-25119	40 nos.
Nut, hub, LH,	9004-22106	40 nos.
- do -, RH,	9004-21114	40 nos.
Lining, brake shoe,	47441-1890	80 nos.
Lining, brake shoe, seco,	47442-1680	80 nos.
Rivet,	9479-06108	4,000 nos.
Gasket, axle,	42321-1470	8 nos.
Seal, oil,	9828-65107	8 nos.

Ring gear and drive,	41203-1170	4 nos.
Gasket, diff carrier,	41221-1360	8 nos.
Bolt, hub, LH,	9004-26124	80 nos.
- do -, RH,	9004-25142	80 nos.
Nut,	9209-22104	160 nos.
Nut, hub, inner, LH,	9004-24101	80 nos.
- do -, RH,	9004-23101	80 nos.
Nut, hub, LH,	9004-22104	80 nos.
- do -, RH,	9004-21112	80 nos.
Seal, oil,	9828-75122	8 nos.
- do -,	9828-75115	8 nos.
- do -,	9828-01107	8 nos.
- do -,	9828-60109	8 nos.
Lining, brake shoe,	47441-1910	80 nos.
Lining, brake shoe sac,	47442-1700	80 nos.
Seal, oil,	9828-65109	8 nos.
Glass, w/s,	79411-4590	4 nos.
Weather strip w/s,	79413-1030	4 nos.
Mirror sub ass'y, outside,	87902-2140	4 nos.
Mirror sub ass'y, under,	87901-1230	4 nos.

3. SPARE PARTS FOR TRAILER MOUNTED PORTABLE
AIR COMPRESSOR, HOKUETSU MODEL "PDR370" 4 UNIT.

(For compressor)

O-ring,	0340230268	16 nos.
Gasket, cylinder cover,	2110500600	4 nos.
Gasket, bearing housing,	2111600200	4 nos.
Gasket,	0340714016	80 nos.
- do -,	0340714010	20 nos.
O-ring,	0340210180	4 nos.
Vane,	2140301500	32 nos.
- do -,	2140301600	32 nos.
Lock washer,	0311563012	8 nos.
Shaft seal ass'y,	2144001100	4 nos.
Gasket, unloader,	2211202000	4 nos.
Bushing,	2312402300	8 nos.
Gasket,	0373710002	4 nos.
- do -,	0373726001	4 nos.
O-ring,	0340230020	4 nos.
Diaphragm, unloader,	2214100600	4 nos.
- do -,	2214200600	8 nos.
Gasket, check valve,	2221200500	4 nos.
Gasket, discharge elbow,	2231200400	4 nos.
O-ring,	0340230058	4 nos.
Bushing,	2312401500	4 nos.
- do -,	2312401600	4 nos.
- do -,	2312401401	8 nos.
Gasket,	0340714012	24 nos.
O-ring,	0340210180	8 nos.
Element,	3214300600	12 nos.
Gasket, intake pipe,	3233400400	4 nos.
Gasket,	0373715201	4 nos.
- do -,	0373713004	4 nos.
O-ring,	0340230046	4 nos.
Gasket,	0373711001	4 nos.
- do -,	0373714001	4 nos.
Element,	3422400500	8 nos.
- do -,	3422500500	56 nos.
Gasket,	0373734501	4 nos.
O-ring,	0340220048	4 nos.
Gasket, service header,	3542401000	4 nos.
Gauge, air pressure,	3614102100	4 nos.
- do -,	3614102700	4 nos.
Gauge, comp oil pressure,	3614201500	4 nos.
Thermometer, air,	3614400300	4 nos.
Gauge, engine oil pressure,	3614300300	4 nos.
Thermometer, water,	3614500300	4 nos.
Ammeter,	3614700500	4 nos.
Tachometer,	3614601000	4 nos.
Flexible shaft,	3615100200	4 nos.

Diaphragm, regulator,	3643600100	4 nos.
- do - ,	3643600200	4 nos.
- do - ,	3643700100	4 nos.
- do - ,	3643700200	4 nos.
Diaphragm, auto-relief,	3662200100	4 nos.
Reducing valve ass'y,	3650000100	4 nos.
Thermo switch,	4433400300	4 nos.
- do - ,	4433400200	4 nos.
Level gauge,	3323700600	4 nos.
Belt,	4232900100	4 nos.
Gasket, bolt,	3423200100	4 nos.
Pellet ass'y,	3723100100	4 nos.
O-ring,	0340220042	4 nos.
Oil seal,	3001111102	4 nos.
- do - ,	3001268101	4 nos.
Air element,	4725101213	16 nos.
Pipe,	3003692300	4 nos.
- do - ,	3003692200	4 nos.
Hose oil,	ME065131	4 nos.
- do - ,	3003922021	4 nos.
Oil filter element,	ME021254	32 nos.
Unit seal, water pump,	3114500902	8 nos.
Shaft, water pump,	3004591500	4 nos.
Bearing, ball,	MH040006	4 nos.
Bearing,	MS556185	4 nos.
Fan belt,	ME902857	4 nos.
Thermostat,	ME999283	4 nos.
Hose, fuel,	ME910363	8 nos.
Plunger,	31101832	24 nos.
Delivery valve,	31110052	24 nos.
Nozzle tip ass'y,	ME046000	24 nos.
Fuel element,	3006265011	24 nos.
Brush, starter,	266000600	16 nos.
Relay,	3006605201	4 nos.
Regulator,	3126852100	4 nos.
Gasket kit,	3009491102	4 nos.
Switch thermo,	3009839400	4 nos.
Alarm,	3009844900	4 nos.
Plug,	ME020911	24 nos.
Brush,	A648D01670	8 nos.

4. SPARE PARTS FOR HINO MODEL "FT173KA" TRUCK		7 SETS
Gasket kit,	04010-0141	7 nos.
Gasket oil pan,	12151-1030	7 nos.
Ring set, piston std,	13011-1620	7 nos.
V-belt set,	9001-49119	21 nos.
Element set,	15607-1090	48 nos.
Element set, fuel filt,	23401-1030	48 nos.
Gasket kit water,	04016-1008	7 nos.
Hose, rad,	9001-44570	7 nos.
- do -,	9001-44571	7 nos.
Element sub ass'y,	17801-1720	21 nos.
Disc ass'y, clutch,	31250-1083	14 nos.
Cyl. kit,	04031-4022	7 nos.
- do -,	04031-5012	7 nos.
Lining, brake shoe,	47441-1150	48 nos.
Rivet,	9479-06105	3,000 nos.
Gasket, axle,	42321-1330	300 nos.
Lining, brake shoe,	47442-1140	48 nos.
Seal valve stem oil,	13719-1020	42 nos.
Nozzle ass'y,	23650-1100	42 nos.
Starter ass'y,	28100-1442	7 nos.
Alternator ass'y,	27050-1011	7 nos.
Relay ass'y start block,	28410-1121	7 nos.
Relay ass'y intake air,	28620-1110	7 nos.
Bulb,	9008-32106	14 nos.
- do -,	9008-32116	140 nos.
- do -,	9008-31105	140 nos.
- do -,	9008-32132	140 nos.
- do -,	9008-32128	140 nos.
- do -,	9008-32129	140 nos.
- do -,	9008-32104	140 nos.
- do -,	9008-32146	140 nos.
Fuse,	9008-57130	140 nos.
- do -,	9008-57131	140 nos.
- do -, 9008-57133 (9008-57144)		70 nos.
Relay ass'y,	85920-1200	7 nos.
- do -,	85920-1190	7 nos.
Flasher ass'y turn sign,	81980-1250	7 nos.
Motor ass'y wiper,	85110-1280	7 nos.
Bearing clutch,	31242-1110	7 nos.
Bearing ball,	9881-17105	7 nos.
Gasket kit,	04033-0024	7 nos.
Bearing sub ass'y needle,	37402-1180	28 nos.
Bushing,	9993-12202	28 nos.
- do -,	9993-12101	14 nos.
Gasket,	9003-21187	14 nos.

5. SPARE PARTS FOR JEEP, WAGON		
TYPE, STANDARD BODY, 4 x 4,		
<u>NISSAN MODEL "WRG160GFU"</u>		<u>2 SETS</u>
K gasket engine,	10101-C6825	3 nos.
Cap ass'y, oil filter,	15255-T8200	3 nos.
Plug, glow,	11065-T3470	18 nos.
Ring set, piston,	12033-C6812	3 nos.
Strainer ass'y, o.,	15050-J5301	6 nos.
Kit element,	15208-61525	15 nos.
Element ass'y, pa.,	16403-34W00	15 nos.
A element paper,	16546-C6800	9 nos.
Nozzle ass'y,	16620-Y8400	18 nos.
Thermostat ss'y,	21200-76203	3 nos.
Belt fan,	01978-10944	6 nos.
Hose, water by-pass,	21069-61500	3 nos.
Hose, upper,	21501-C6010	3 nos.
Hose, lower,	21503-C6010	3 nos.
Piston kit, clutch,	30611-M4025	6 nos.
Cup kit, clutch,	30622-J2025	6 nos.
Hose ass'y, clutch,	46201-89913	6 nos.
Disc ass'y, clutch,	30100-C7001	6 nos.
Bearing, clutch,	30502-21000	6 nos.
Spring, holder b.,	30514-66300	6 nos.
Cover, dust with,	30542-C6000	6 nos.
Link fusible,	24022-C4200	6 nos.
Fuse, 10A,	24319-V0110	30 nos.
Fuse, 15A,	24319-V0115	30 nos.
Switch ass'y, turn,	25560-C6000	3 nos.
Switch ass'y, stop,	25320-H8500	6 nos.
Switch ass'y, oil,	25250-S6001	3 nos.
Switch ass'y, the.,	11023-G7000	3 nos.
Unit ass'y, turn,	25250-T3400	6 nos.
Relay,	25230-C6100	6 nos.
Relay, egi start,	25230-J5520	6 nos.
Relay ass'y, horn,	26320-25000	6 nos.
Blade ass'y, wind,	26360-A4601	12 nos.
Lamp ass'y, front,	26120-C6100	3 nos.
- do -,	26125-C6100	3 nos.

Unit ass'y, seal,	02260-231K0	6 nos.
Bulb,	26715-89990	15 nos.
- do -,	26715-C7160	15 nos.
- do -,	26717-C7100	30 nos.
- do -,	26722-C9900	15 nos.
- do -,	26101-87660	15 nos.
- do -,	26736-C0502	9 nos.
Lens, side flash,	26161-H1001	6 nos.
Packing, lens RH,	26163-S5000	6 nos.
Lens, combination,	26521-C6000	3 nos.
- do -,	26526-C6000	3 nos.
- do -,	26523-C6000	3 nos.
- do -,	26528-C6000	3 nos.
Shoe set, FR b.,	41060-76025	12 nos.
Spring,	27141-0401P	30 nos.
- do -,	41021-30100	30 nos.
- do -,	41022-30100	30 nos.
Shoe set, rear b.,	44060-T6425	12 nos.
Spring,	44214-T6000	12 nos.
Piston kit, tan.,	46011-C5526	3 nos.
Strainer, oil,	46093-W1010	6 nos.
Hose ass'y, clutch,	46201-89916	6 nos.
Hose ass'y, brake,	46201-89946	6 nos.
- do -,	46204-C6000	6 nos.
Rib and rug,	6.50-16-6/6	12 nos.

6. <u>SPARE PARTS FOR JEEP, PICK-UP TYPE,</u> <u>4 x 4, NISSAN MODEL "JGY720TUF"</u>			<u>4 SETS</u>
K. gasket, eng.,	10101-09W25	6 nos.	
Cap ass'y, oil fil.,	15255-T8200	6 nos.	
Ring set, piston,	12033-L2002	3 nos.	
Hose, water by-pass,	21069-61500	3 nos.	
Filter ass'y, oil,	15208-W1123	9 nos.	
Gasket, oil filter,	15239-V1700	6 nos.	
Hose ass'y, air d.,	11032-31W00	6 nos.	
- do -,	16582-29W00	6 nos.	
Strainer ass'y, f.,	16400-09W10	9 nos.	
Element ass'y,	16546-S0100	9 nos.	
Nozzle ass'y,	16620-Y8400	12 nos.	
Gasket, nozzle,	16635-J5570	30 nos.	
Hose, fuel strainer,	08742-20020	6 nos.	
Hose, fuel,	08742-20030	6 nos.	
Belt, fan,	01978-10954	12 nos.	
Thermostat ass'y,	21200-76203	6 nos.	
Gauge ass'y, water,	25080-89902	3 nos.	
Plug, glow,	11065-34W00	12 nos.	
Hose, upper,	21501-36W00	6 nos.	
Hose, lower,	21503-58W00	6 nos.	
Knob, throttle c.,	18415-31W10	3 nos.	
Element, oil cool,	21301-31W00	3 nos.	
Link, fusible,	24022-34W00	9 nos.	
Switch ass'y, stop,	25320-H8500	3 nos.	
Unit ass'y, turn,	25520-89963	3 nos.	
Relay ass'y, horn,	26320-89913	3 nos.	
Relay ass'y, glow,	25230-09W00	3 nos.	
Socket ass'y, bulb,	26260-C9901	3 nos.	
- do -,	26260-N8200	3 nos.	
Socket, bulb,	26260-89905	3 nos.	
Bulb,	26261-89900	15 nos.	
- do -,	26261-89905	15 nos.	
- do -,	26261-89906	15 nos.	
Blade ass'y, wind,	28890-08W00	12 nos.	
Unit ass'y, seale.,	26701-89950	12 nos.	
- do -,	26702-89950	12 nos.	
Lens, front comb.,	26121-02W00	6 nos.	
- do -,	26126-02W00	6 nos.	
Packing, lens RH,	26123-01W00	6 nos.	

Bulb, RH,	26717-89910	15 nos.
Bulb,	26261-89903	15 nos.
Lens, side flash,	26164-50W00	6 nos.
- do -,	26169-50W00	6 nos.
Bulb,	26261-C9909	15 nos.
Lens, combination,	26554-08W00	6 nos.
- do -,	26559-08W00	6 nos.
Bulb,	26717-89909	15 nos.
Bulb, RH,	26717-89910	15 nos.
Bulb,	26717-89930	15 nos.
- do -,	26261-89903	15 nos.
Lens, licence la.,	26511-PO100	6 nos.
Lens, reverse la.,	26541-18W00	6 nos.
- do -,	26546-18W00	6 nos.
Lamp ass'y, licence,	26510-25W10	6 nos.
Packing, lens,	26513-PO100	6 nos.
Bulb,	26715-89901	15 nos.
Disc ass'y, clutch,	30100-34W01	12 nos.
Bearing, clutch,	30502-21000	12 nos.
Cover, dust with,	30542-E9000	12 nos.
Hose ass'y, clutch,	46211-79915	12 nos.
Gasket, brake ho.,	46237-A4600	30 nos.
Spring, lock brake,	46206-M0200	30 nos.
Seal, oil drive,	38189-N3100	12 nos.
- do -,	38189-U3000	12 nos.
Absorber kit, sh.,	56110-50W25	3 nos.
Seal, oil,	38212-73000	3 nos.
Seal, oil rear a.,	43232-B5000	3 nos.
Seal, oil,	43090-01W00	3 nos.
Absorber kit, sh.,	56210-42W25	3 nos.
Switch ass'y, par.,	36011-89901	3 nos.
Shoe set, rear brake,	44060-T6025	12 nos.
Cup kit, brake w.,	D4100-T6025	12 nos.
- do -,	D4100-T6026	12 nos.
Hose ass'y, brake,	46210-50W02	6 nos.
Piston kit, clutch,	30611-N4025	9 nos.
Gasket, brake ho.,	46237-A4600	9 nos.
Pad kit, disc brake,	41060-09W92	12 nos.
Seal kit, FR disc,	41120-VO326	12 nos.
Tire,	6.50-15-8PR	24 nos.

7. <u>SPARE PARTS FOR SHOVEL TRACTOR</u>		
<u>WITH BACK-HOE, RIGHT HAND</u>		
<u>STEERING, TCM MODEL "815"</u>		
		<u>2 SETS</u>
Hose, radiator,	26262-12011	2 nos.
- do -,	26262-12021	2 nos.
Element, air,	20801-03131	12 nos.
Bulb, 12V, 40/30W,	22112-40171	4 nos.
Bulb, 12V, 23W,	23652-42321	2 nos.
Bulb, 12V, 5W,	23652-42331	2 nos.
Fuse, 12V, 30A, 26092-42181	3911816	4 nos.
Bulb,	26112-42301	4 nos.
- do -,	26112-42311	4 nos.
- do -,	26262-47031	4 nos.
O-ring,	03310-01400	4 nos.
Oil seal,	16263-02591	4 nos.
Packing kit,	24238-52201	2 nos.
O-ring,	03320-00220	2 nos.
Packing kit,	23650-59811	2 nos.
O-ring,	24238-52171	2 nos.
Dust seal,	26098-72221	8 nos.
Repair kit,	26265-42611	2 nos.
Kit,	J-9320-013	2 nos.
Repair kit,	B-20003-10324	2 nos.
Wiper,	B-21011-32801	16 nos.
O-ring, B21001-00689	03330-00110	16 nos.
Filter,	26317-52051	2 nos.
Element, 26267-67001	26267-67002	2 nos.
Seal,	56110-62181	6 nos.
Wear ring,	56110-62171	12 nos.
O-ring,	03320-00280	6 nos.
Packing,	26268-42111	6 nos.
Back-up ring,	26268-42121	6 nos.
Dust seal,	56110-61661	6 nos.
O-ring,	03320-00700	6 nos.
Seal,	56110-62181	2 nos.
Wear ring,	56110-62171	4 nos.
O-ring,	03320-00280	2 nos.
Packing,	26268-42111	2 nos.
Back-up ring,	26268-42121	2 nos.
Dust seal,	56110-61661	2 nos.

O-ring,	03320-00700	2 nos.
Pad kit,	26263-07071	24 nos.
Seal kit,	26263-07081	12 nos.
Repair kit,	Z-5-87810-208-2	2 nos.
Belt,	Z-9-13671-808-0	2 nos.
Hose, rubber,	Z-9-13721-132-1	2 nos.
Repair kit,	Z-5-87810-139-1	2 nos.
Nozzle, Z-5-15311-006-0	Z-5-15311-006-1	8 nos.
Filter oil, Z-9-8851-1166-0	20801-01021	16 ns.
Filter, fuel, Z-5-13240-023-0	20801-02021	8 nos.
Brush,	Z-5-81116-048-0	4 nos.
- do -,	Z-5-81116-048-0	4 nos.
Recifier, Z-9-8223-1619-0	Z-9-8223-1619-1	2 nos.
Holder ass'y, a.,	Z-9-8223-1620-0	2 nos.

8. SPARE PARTS FOR DIESEL ENGINE		
D.C. WELDER A.C. GENERATOR 2 WAY		
MACHINE, HOKUETSU MODEL "PDW27CSW"		
		4 SETS
Brush holder,	D86426 38106	4 nos.
Brush, carbon (w/lead-wire),	D86426 39103	16 nos.
Bearing,	D08121 06305	4 nos.
Silicon rectifier,	RM100 57003	8 nos.
Terminal, welding,	D86426 65106	8 nos.
Nut, wing,	D02810 80100	8 nos.
Silicon rectifier,	00330 57C10	4 nos.
Variable resistor,	00270 56303	4 nos.
Timer ass'y,	00270 44903	4 nos.
Gilpan packing,	K15381 01622	4 nos.
Head gasket,	K15549 03312	4 nos.
Head gasket shim,	K15381 03321	4 nos.
O-ring,	K04811 06130	12 nos.
Gear case packing,	K15531 04131	4 nos.
Oil seal,	K09550 00008	4 nos.
Oil pump packing,	K15261 35151	4 nos.
Water unit packing,	K15221 88131	4 nos.
Bearing case packing,	K15261 04361	4 nos.
Bearing case cover packing,	K15261 04821	4 nos.
Oil seal wheel side,	K19215 04461	4 nos.
Fuel pump packing,	K15241 52141	4 nos.
Inlet manifold packing,	K15261 11821	4 nos.
- do -,	K15261 11831	8 nos.
Exhaust manifold packing,	K15261 12362	12 nos.
O-ring,	K04811 50300	8 nos.
Head cover packing,	K15381 14521	4 nos.
Oil pump packing,	K15231 87132	4 nos.
Brake packing,	K15231 05131	4 nos.
Speed regulation board,	K15261 57211	4 nos.
Water flange packing,	K15261 72921	4 nos.
Injection shim,	K15321 52113	8 nos.
Muffler packing,	K15371 12371	4 nos.
Thermostat cover packing,	K15531 73271	4 nos.
Injection pump shim,	K15381 52112	12 nos.
Air cleaner element ass'y,	K15501 11081	8 nos.
Fuel filter element,	K15231 43563	8 nos.

Oil filter cartridge,	K15241 32092	40 nos.
Fan belt,	K15549 72531	8 nos.
Inlet valve,	K15393 13111	12 nos.
Exhaust valve,	K15393 13121	12 nos.
Piston ring ass'y,	K15901 21051	12 nos.
Piston pin bush,	K15261 21351	12 nos.
Crank pin metal,	K15531 22311	24 nos.
Crank shaft metal, 1,	K15261 23471	4 nos.
- do -, 2,	K15261 23481	24 nos.
Side metal, 1,	K15261 23531	8 nos.
- do -, 2,	K15261 23541	8 nos.
Nozzle holder ass'y, 1,	K15443 53001	4 nos.
- do -, 2,	K15443 53021	8 nos.
Packing,	K17011 53621	12 nos.
Water pipe, 1,	K15393 72851	4 nos.
- do -, 4,	K15543 72941	4 nos.
Band,	K15108 72873	8 nos.
- do -,	K15261 72782	16 nos.
Overflow pipe, 1,	K15545 72411	4 nos.
Pipe clip,	K14911 42751	8 nos.
Pipe band,	K15221 11722	12 nos.
Water return pipe, 1,	K15531 73342	4 nos.
- do -, 2,	K15531 73351	4 nos.
Water pipe, 2,	K15393 72861	4 nos.
- do -, 3,	K15531 72871	4 nos.
Packing,	K15451 96671	4 nos.
Water pump packing,	K15331 73431	4 nos.
Breather pipe,	K15367 05511	4 nos.
Fuel overflow pipe,	K15261 42513	8 nos.
Pipe clip,	K14971 42751	16 nos.

9.	<u>SPARE PARTS FOR DIESEL ENGINE</u>		
	<u>GENERATOR, HOFUETSU MODEL "SDG55-311"</u>		<u>1 SET</u>
	Fuse,	469340C100	12 nos.
	Bulb, pilot lamp,	4693800600	6 nos.
	Bulb,	4693900600	6 nos.
	Silister,	4693200200	1 no.
	Volt meter, ac.,	4615300600	1 no.
	Ammeter,	4615401600	1 no.
	Frequency meter,	4691100100	1 no.
	Oil seal front,	ME024156	1 no.
	Oil seal,	ME031548	1 no.
	Air element,	3113001120	4 nos.
	Hose by pass,	ME025113	1 no.
	Oil element,	ME021074	8 nos.
	Seal unit,	ME034026	2 nos.
	Shaft,	ME029417	1 no.
	Impeller,	ME029416	1 no.
	Bearing,	MS556184	2 nos.
	V-belt,	ME909702	1 no.
	Thermostat,	ME020791	1 no.
	Hose fuel feed,	ME910341	1 no.
	- do -,	ME910125	1 no.
	Plunger,	1311018220	6 nos.
	Valve delivery,	1311100520	6 nos.
	Nozzle,	ME020996	6 nos.
	Element fuel,	ME023835	6 nos.
	Brush,	0285300251	4 nos.
	Spring brush,	9491730261	4 nos.
	Brush,	0216600131	2 nos.
	Spring brush,	9491700570	2 nos.
	Relay,	ME020908	1 no.
	Regulator,	ME020936	1 no.
	Switch thermo,	3009839400	1 no.
	Switch, oil pressure,	3089003100	1 no.
	Plug,	ME020911	6 nos.
	Gasket kit,	ME999040	1 no.

10.	<u>SPARE PARTS FOR SELF PRIMING CENTRIFUGAL PUMP WITH DIESEL ENGINE, OKAMOTO MODEL "M-SE65"</u>		<u>4 SETS</u>
	(For pump unit, OKAMOTO Model M-SE65)		
	Impeller		16 nos.
	Shaft		16 nos.
	Bearing		16 nos.
	O-ring, case		16 nos.
	Gland packing		16 nos.
	Valve, inlet		16 nos.
	Pump casing		4 nos.
	(For diesel engine, YANMAR Model TS-60C)		
	Liner with rubber,	705240-01900	4 nos.
	Piston with ring,	104200-22090	4 nos.
	Ring set,	704200-22502	4 nos.
	Piston pin,	104200-22300	4 nos.
	Metal, piston pin,	104200-23100	4 nos.
	Washer, piston pin,	104200-22400	8 nos.
	Crank pin metal,	104200-23340	4 nos.
	Crank bearing,	106200-02300	4 nos.
	- do -,	106200-02310	4 nos.
	Oil seal, crank shaft,	106200-02220	4 nos.
	Oil seal, drive shaft,	104200-76500	4 nos.
	Element, fuel filter,	104200-55710	8 nos.
	Cap, fuel filter,	102103-55510	4 nos.
	O-ring, fuel filter,	102103-55520	8 nos.
	Filter, lubrication oil,	104200-35150	4 nos.
	Valve, inlet,	104200-11100	4 nos.
	Valve, exhaust,	104200-11110	4 nos.
	Spring, valve,	106200-11120	8 nos.
	Washer, valve,	104200-11180	8 nos.
	- do -,	27310-070001	8 nos.
	Fan belt,	104207-44780	8 nos.
	Pipe, high pressure, F.O.,	106250-59800	4 nos.
	Plunger,	104200-57100	4 nos.
	Delivery valve,	101300-51300	4 nos.
	Body, regulator,	704200-51550	4 nos.
	Needle, regulator,	171590-51420	4 nos.
	S.P., regulator,	171590-51430	4 nos.
	Oiler,	704200-34500	4 nos.
	Inlet port, water,	706250-44540	4 nos.
	Rubber pipe,	106250-44490	4 nos.
	Pipe, F.O.,	16800-59010	4 nos.
	Pipe, return, F.O.,	105440-59140	4 nos.
	Head, gasket,	104264-01330	4 nos.
	O-ring, L.O. filter,	24341-000440	4 nos.
	O-ring, cap, L.O. filter,	103338-32570	4 nos.
	Packing, F.O. regulator body,	174100-51440	4 nos.
	Packing, chamber,	101254-11452	8 nos.
	Heat insulator,	103854-11490	4 nos.
	Needle valve,	172100-53000	8 nos.
	Packing set,	704200-01610	4 nos.

11. SPARE PARTS FOR VIBRATING ROAD ROLLER MINIATURE, SAKAI MODEL "SV40H"		2 SETS
Hose,	1742-03003-0	1 no.
- do -,	1742-03002-1	1 no.
Pilot lamp,	2844-12002-1	1 no.
- do -,	2844-12001-1	1 no.
Flexible shaft,	2809-00150-0	1 no.
Battery relay,	2891-12001-9	1 no.
Regulator,	4016-99002-0	1 no.
Bulb,	2849-31014-5	10 nos.
Battery relay,	2891-12004-9	1 no.
Bulb,	2849-11008-5	10 nos.
- do -,	2849-01001-5	5 nos.
Control cable,	2402-33180-5	1 no.
- do -,	2402-63140-5	1 no.
Plunger switch,	2824-00002-1	1 no.
Control cable,	2402-62210-5	1 no.
V-belt,	2447-00067-1	4 nos.
- do -,	2447-00045-1	4 nos.
O-ring,	2630-01020-0	10 nos.
Horn cap ass'y,	4405-63002-0	1 no.
Repair kit,	4407-10013-0	1 no.
- do -,	4202-50003-0	1 no.
O-ring,	2632-00016-0	5 nos.
- do -,	2632-00008-0	5 nos.
- do -,	2632-00010-0	5 nos.
- do -,	2630-01165-1	4 nos.
Element,	4201-02000-0	4 nos.
O-ring,	2632-00004-0	5 nos.
Joint link,	2440-12001-0	1 no.
Nozzle		20 nos.
Repair kit engine overhaul,	58781-00832	1 no.
Gasket cyl. head,	911145-6240	1 no.
Packing O-ring head cover,	911173-1370	2 nos.
Seal oil,	509625-079	1 no.
Packing timing gear case,	911312-0340	1 no.
Packing oil pan,	911367-6030	1 no.
Ring set piston STD,	512121-0221	3 nos.
Filter ass'y cartridge,	513240-0170	8 nos.
Element kit fuel filter,	587810-0370	4 nos.
Repair kit,	587810-1561	1 no.
Belt cooling fan,	513671-0400	2 nos.
Element ass'y,	914215-6040	8 nos.
Nozzle,	515311-0061	3 nos.
Washer nozzle holder,	915315-0260	6 nos.
Check valve,	981351-6020	2 nos.
Spring check valve,	981351-7020	2 nos.
Brush (+),	982111-6510	4 nos.
Brush (-),	982111-6520	4 nos.
Diode ass'y,	982231-6191	1 no.
Holder ass'y, brush,	581217-0040	1 no.

12. SPARE PARTS FOR VERTICAL TURBINE PUMP 8 SETS

12-1. Spare Parts for Vertical Turbine Pump,
40 l/s, TDH 40 m, EBARA Model "200BHGE" 8 Sets

(For pump, EBARA 200BHGE)

Bottom sleeve bearing,		8 nos.
Sleeve bearing		48 nos.
Ball bearing,		16 nos.
Intermediate sleeve bearing		112 nos.
Casing ring		48 nos.
Gland packing		32 nos.
Coupling bolt		64 nos.
Intermediate sleeve		48 nos.
Gasket		16 nos.
Intermediate shaft		16 nos.
Oil seal,	DM42 15 12	24 nos.
Bearing,	30309U	32 nos.

(For power unit, ISUZU Model "UA4BEIIBA-S")

Element air,	9-14215152-0	16 nos.
Element oil,	1-87810220-1	96 nos..
Element fuel,	5-87810050-0	96 nos.
Belt fan,	5-13671045-0	16 nos.
Radiator hose up,	5-89214377-0	16 nos.
Radiator hose low,	5-89214378-0	16 nos.
Wat hose,	9-13721802-0	16 nos.
Tachometer,	9-83110820-0	8 nos.
Tachometer shaft,	9-83111576-0	8 nos.
Thermometer,	9-83150204-0	8 nos.
Thermometer unit,	9-83151432-0	8 nos.
Oil press meter,	9-83140186-0	8 nos.
Oil press meter unit,	9-82710227-0	8 nos.
Lamp pilot,	5-82240007-0	8 nos.
Resistance control,	9-82530046-0	8 nos.
Glow plug,	9-82513128-2	16 nos.
Starter ass'y,	9-82710227-0	8 nos.
Generator ass'y,	5-81200212-1	8 nos.
Starter ass'y,	5-81100164-0	8 nos.
Engine control,	9-23217727-0	8 nos.
Engine stop,	1-23210681-0	8 nos.
Eng o/h p/k kit,	5-87810121-2	16 nos.
Plate asm drive	5-31240010-0	8 nos.
Head asm cyl,	5-11110168-0	8 nos.
Valve ex,	5-12552043-0	32 nos.
Valve in,	1-12552025-0	32 nos.
Valve guide seal,	5-11141057-0	64 nos.
Gasket cyl head,	5-11141004-0	8 nos.
Tappet,	5-12571022-0	64 nos.
Cam shaft,	5-12511081-0	8 nos.
Cam shaft bear,	9-11691048-0	8 nos.
- do -,	9-11693035-0	16 nos.
Liner cyl,	5-11261004-0	32 nos.
Piston std,	5-12111013-0	32 nos.

Piston ring,	5-12121005-0	32 nos.
Crank bear kit,	5-11510065-0	8 nos.
Con rod bear set,	9-12271608-0	32 nos.
Con rod bush set,	5-12251006-0	32 nos.
Oil pan p/k,	5-11367005-1	16 nos.
Seal cl bear,	5-09625052-0	16 nos.
Seal cl front,	5-09625054-0	16 nos.
Pump asm water,	5-13610158-1	8 nos.
Pump asm p/k,	1-11361410-0	8 nos.
Thermostat,	5-13770032-0	8 nos.
Thermostat p/k,	9-13743013-0	8 nos.
Holder asm nozzle,	5-15330007-1	32 nos.
Holder asm p/k,	5-15315003-0	32 nos.
Holder asm cvr,	9-09571408-0	32 nos.
Cover dust,	9-15339051-0	32 nos.
Pipe p/k,	1-09630085-0	240 nos.

12-2. Spare Parts for Vertical Turbine Pump,
60 l/s, TDH 45 m, EBARA Model "200BHGE" 8 Sets

Bottom sleeve bearing		8 nos.
Sleeve bearing		32 nos.
Ball bearing		16 nos.
Intermediate sleeve bearing		112 nos.
Casing ring		32 nos.
Gland packing		32 nos.
Coupling bolt		64 nos.
Intermediate sleeve		32 nos.
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Bottom sleeve		8 nos.
Gasket		16 nos.
Intermediate shaft		16 nos.
Oil seal,	D:52 75 12	24 nos.
Bearing,	30311U	16 nos.
- do -,	30312U	16 nos.

(For power unit, ISUZU Model "UA6BB1BA-S")

Element air,	9-14215132-1	16 nos.
Element oil,	1-87810220-1	192 nos.
Element fuel,	9-88511191-1	96 nos.
Belt fan,	5-13671091-0	16 nos.
Radiator hose up,	1-89214348-0	16 nos.
Radiator hose low,	1-89214349-0	16 nos.
Wat hose,	5-13721014-1	16 nos.
Tachometer,	9-83110820-0	8 nos.
Tachometer shaft,	9-83111576-0	8 nos.
Thermometer,	9-83150204-0	8 nos.
Thermometer unit,	9-83151432-0	8 nos.
Oil press meter,	9-83140186-0	8 nos.
Oil press meter unit,	9-82710227-0	8 nos.
Lamp pilot,	5-82240007-0	8 nos.
Resistance control,	5-19732002-0	8 nos.
Glow plug,	9-82513928-2	24 nos.
Starter s.w.,	9-82710227-0	8 nos.

Regulator,	1-81251002-0	16 nos.
Generator ass'y,	1-81200078-1	8 nos.
Starter ass'y,	5-81100045-0	8 nos.
Engine control,	9-23217727-0	8 nos.
Engine stop,	1-23210681-0	8 nos.
Engine o/h p/k kit,	1-87810290-1	16 nos.
Plate asm drive,	1-31240197-0	8 nos.
Head asm cy,	5-11110202-1	8 nos.
Valve ex,	1-12552025-0	48 nos.
Valve in,	1-12551050-0	48 nos.
Valve guide seal,	5-12569001-0	96 nos.
Gasket cyl head,	5-11141056-1	8 nos.
Tappet,	5-12571003-1	96 nos.
Cam shaft,	9-12514803-0	8 nos.
Cam shaft bear,	9-11613035-0	40 nos.
Cam shaft bear,	9-11611048-0	8 nos.
Liner cyl,	5-11261004-0	48 nos.
Piston std,	5-12111013-0	16 nos.
Piston ring,	5-12121005-0	48 nos.
Crank bear kit,	1-11510040-0	8 nos.
Con rod set,	9-12271608-0	48 nos.
Con rod bush set,	5-12251006-0	48 nos.
Oil pan p/k,	1-11367072-0	16 nos.
Seal oil rear,	1-09625195-0	16 nos.
Seal oil front,	5-09625054-0	16 nos.
Cover gear p/k,	1-11322036-0	16 nos.
Pump asm water,	5-13610157-2	8 nos.
Pump p/k,	1-13614010-0	8 nos.
Thermostat,	5-13770031-0	16 nos.
Thermostat p/k,	1-13741008-0	16 nos.
Holder asm nozzle,	5-15330007-1	48 nos.
Holer p/k,	5-15315003-0	48 nos.
Holder cur,	9-09571408-0	48 nos.
Cover dust,	9-15339051-0	48 nos.
Pipe p/k,	1-09630085-0	240 nos.

13. SPARE PARTS LIST FOR YRD-501R FOR 2 YEARS.

Item	Quantity
Hoisting wire rope safety clevis and socket 18 mm x 80M	6 rolls
Sandline wire rope safety clevis and socket 9MM x 500M	3 rolls
Foot valve with fittings 150 M	18 pcs.
Square Kelly bar with sub, 3½"x8.01M drive section and 9M overall length, 4½" REC LH box upto 3½" IF. RH pin down.	3 pcs.
Super Tong ST-5	6 pcs
Super Tong ST-4	6 pcs
Water swivel Ass'y	6 pcs
Hoisting swivel, type 20,000kgs, capacity with 3½" IF	6 pcs
Travelling block, single sheave, with link hanger 20,000kgs capacity.	3 pcs
Kelly drive bushing ass'y	6 pcs
Tong ass'y for drill collar (make-up brake out)	6 set (12 pcs)
Tong Assy for drill pipe (make up brake out)	6 set (12 pcs)
Clutch Plate	18 pcs.

Item	Quantity
Tong Jaw for make-up Brake-out	200 pcs
Drill pipe slips for 3 1/4" drill pipe	6 set
Taper tap for 8" pipe (fishing tools)	3 sets
Taper tap for 6" pipe (fishing tools)	3 sets
Rod pulling band, 3 1/4"	3 pcs
Kelly saver sub, 3 1/4" IF bor to pin	9 pcs
High pressure swivel hose with fittings 75MM x 2.5M	15 pcs
High Pressure intermediate hose with fittings 75MM x 4.5M	10 nos
Suction hose with fitti- ngs, 150MM x 6M	10 nos
Nipple of jet hopper type mud mixer	20 pcs
Drill pipe size 3 1/4 external upset with 3 1/4 IF friction weld tool joint and thread protections on both ends API Standard range 1 approx 6M long	60 pcs
Stabilizer 12"	6 pcs
stabilizer 14"	6 pcs
Bit sub, 6-5/8" REC box to 7-5/8 REC box	10 pcs
Sub 3 1/4" REC box to 6-5/8" REC box pin	10 pcs

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24.	Three cutter rock roller bit size 12 $\frac{1}{4}$ " with 7 $\frac{5}{8}$ " REG pin connection for hard formation.	40 nos.
25.	- do - 14 $\frac{3}{4}$ " with 7 $\frac{5}{8}$ " REG pin.	100 nos.
26.	- do - 17 $\frac{1}{2}$ " with 7 $\frac{5}{8}$ " REG pin.	50 nos.
27.	Search Light	30 nos.
28.	Kelly bushing for turn table.	3 sets.
29.	Break out Hydraulic cylinder.	3 (three) set.
30.	Mast rasing cylinder.	6 sets.
	<u>Rig control panel</u>	
31.	pipe, seal, connector	3 sets.
32.	rpm inicator	3 nos.
33.	Hydraulic flow valve.	9 nos.
34.	Line filter	30 nos.
35.	accessories	
35.	Three wing bit size 14 $\frac{3}{4}$ " with 6 $\frac{5}{8}$ " REG box connection.	50 nos.
36.	Suction hose with fitting 150 mmX 6m.	50 nos.
37.	Foot valve with fittings, 150mm.	30 nos.
38.	Portable electric logging system OYO model "GECLOGGER" 300 " for 300m depth. <u>accessories for above</u>	2 sets.
	I. Cable reel.	5 sets.
	II. Paper.	150 nos.
	iii. Multi tester.	2 sets.

<u>Item</u>	<u>Quantity</u>
MUD PUMP MAR-7	
42 Connecting rod bushing	40 pcs
57 Bushing	40 pcs
58 Piston rod packing	200 pcs
59 Packing gland	40 pcs
68 Bushing	40 pcs
69 packing gland	40 pcs
74 Liner packing	40 pcs
75 Piston complete 180 Ø	20 pcs
83 O-ring	200 pcs
84 Valve seat	40 pcs
86 Valve rubber	40 pcs
87 Rubber washer	40 pcs
88 Spring washer	40 pcs
89 Valve spring	40 pcs
91 Valve cover packing	100 pcs

Piston rubber 180 Ø 100 pcs
 Cylinder liner 180 Ø 60 pcs

(For truck, HINO Model "WG140E)

Eng. o/h kit,	04010-0112	4 nos.
Bushing, valve guide in,	11122-1100	24 nos.
Bushing, valve guide ex,	11126-1080	24 nos.
Gasket, cyl head,	11115-1202	8 nos.
Liner, cyl,	11461-1020	24 nos.
Gasket, cyl liner,	11471-1040	24 nos.
Gasket, oil pan,	12151-1281	4 nos.
Washer, soft,	9659-30101	200 nos.
Piston, s/s,	13216-1170	24 nos.
Ring set, piston, std	13011-1660	4 nos.
Pin kit,	04013-2007	4 nos.
Bolt, conrod,	13265-1020	24 nos.
Washer, conrod,	13267-1070	200 nos.
Bearing set, conrod, std,	13201-1271	4 nos.
Bearing set, crankshaft,	11701-1491	4 nos.
Washer set, crankshaft,	11011-1200	4 nos.

pump ass'y injection.	22000-1350	6 pcs.
Alternator ass'y	27020-1100	4 pcs.
starter ass'y.	28100-1081	4 pcs.

V-belt set,	9001-49169	16 nos.
V-belt,	9001-45215	20 nos.
Valve, intake, std,	13711-1250	24 nos.
Valve, exh, std,	13715-1390	24 nos.
Spring, valve,	13732-1150	24 nos.
Spring, valve, outer,	13731-1180	24 nos.
Lock, valve spg,	9001-26103	200 nos.
Gasket, intake mfld,	17171-1280	24 nos.
Gasket, exh mfld,	17173-1470	24 nos.
Element set,	15607-1030	40 nos.
Switch ass'y,	84380-1020	4 nos.
Nozzle ass'y,	23640-1250	40 nos.
Seal sub ass'y, coolant,	16104-1070	8 nos.
Thermostat,	04016-6008	8 nos.
Switch ass'y, start,	28150-1310	4 nos.
Switch ass'y, oil press,	83530-1070	4 nos.
Gage ass'y, water temp,	83420-1060	4 nos.
Pinion ass'y, start,	28250-1010	4 nos.
Cap ass'y,	77320-1040	4 nos.
Cap sub ass'y, rad,	16401-1030	4 nos.
Hose, rad,	9001-44452	8 nos.
- do -,	9001-44450	8 nos.
Gasket, exh pipe,	17451-1160	8 nos.
Gasket, exh brake,	17485-1040	8 nos.
Element sub. ass'y, a/c,	17801-1530	4 nos.
Sealedbeam unit,	9008-21105	4 nos.
- do -,	9008-21106	4 nos.
Bulb,	9008-32132	40 nos.
- do -,	9008-32104	40 nos.
- do -,	9008-32150	40 nos.
- do -,	9008-32139	40 nos.
- do -,	9008-32146	40 nos.
- do -,	9008-32136	40 nos.
Flasher ass'y, turn sign,	81980-1100	4 nos.
Switch ass'y, start,	84510-1200	4 nos.
Switch ass'y, turn sign,	84310-1120	4 nos.
Fuse,	9008-57105	200 nos.
- do -,	9008-57124	200 nos.
- do -,	9008-57108	200 nos.
- do -,	9008-57111	200 nos.

Fuse,	9008-57107	200 nos.
Blade ass'y, wiper,	85220-1110	16 nos.
Disc ass'y, clutch,	31250-2420	8 nos.
Disc, clutch,	31251-1470	8 nos.
Rivet,	9479-05110	400 nos.
Cover ass'y, clutch,	31210-1063	4 nos.
Gasket, brg retainer, FR,	33132-1040	8 nos.
Gasket, brg rtainer, RR,	33142-1261	8 nos.
Gasket, t/m PTO,	33162-1060	8 nos.
Seal, oil,	9828-75119	8 nos.
Switch ass'y, back up,	84210-1030	4 nos.
Spider, U-joint,	37411-1020	8 nos.
Joint ass'y, univ,	37400-1120	40 nos.
Spider, U-joint,	37411-1070	8 nos.
Bearing, needle roller,	9885-29102	40 nos.
Washer, lock,	9279-08104	400 nos.
- do -,	9279-10108	400 nos.
Cushion, center supt br,	37235-1090	4 nos.
Cable sub ass'y, p/b,	46401-1581	4 nos.
Spring ass'y, FR,	48110-1630	4 nos.
- do -,	48110-1640	4 nos.
Center bolt,	04234-2110	8 nos.
- do -,	04234-1140	8 nos.
Pin, spg,	48423-1280	16 nos.
Shockabsorber ass'y,	48500-1120	8 nos.
U-bolt, leaf spg,	9004-84123	8 nos.
- do -,	9004-84124	8 nos.
Nut,	9229-24102	40 nos.
Washer, thrust,	9003-13173	40 nos.
Washer, plain,	9269-30105	40 nos.
Spring ass'y, RR,	48210-1370	4 nos.
Center bolt,	04234-2120	16 nos.
U-bolt,	04233-2330	16 nos.
Seal, oil,	9828-01118	8 nos.
Bushing,	9867-00105	8 nos.
Bushing sub ass'y, rubber,	49305-1030	16 nos.
Cable ass'y, speed driv,	83710-8980	4 nos.
- do -,	83710-3551	4 nos.
- do -,	83710-3420	4 nos.
Gasket, axle,	42321-1020	40 nos.

Washer, thrust,	9003-13213	40 nos.
Bearing, thrust,	9882-85101	8 nos.
O-ring,	9851-01151	8 nos.
Seal, oil,	9828-01127	8 nos.
Gasket, axle,	42321-1140	8 nos.
Bolt, hub, LH,	9004-26105	40 nos.
- do -, RH,	9004-25119	40 nos.
Nut, hub, LH,	9004-22106	40 nos.
- do -, RH,	9004-21114	40 nos.
Lining, brake shoe,	47441-1890	80 nos.
Lining, brake shoe, seco,	47442-1680	80 nos.
Rivet,	9479-06108	4,000 nos.
Gasket, axle,	42321-1470	8 nos.
Seal, oil,	9828-65107	8 nos.
Ring gear and drive,	41203-1170	4 nos.
Gasket, diff carrier,	41221-1360	8 nos.
Bolt, hub, LH,	9004-26124	80 nos.
- do -, RH,	9004-25142	80 nos.
Nut,	9209-22104	160 nos.
Nut, hub, inner, LH,	9004-24101	80 nos.
- do -, RH,	9004-23101	80 nos.
Nut, hub, LH,	9004-22104	80 nos.
- do -, RH,	9004-21112	80 nos.
Seal, oil,	9828-75122	8 nos.
- do -,	9828-75115	8 nos.
- do -,	9828-01107	8 nos.
- do -,	9828-60109	8 nos.
Lining, brake shoe,	47441-1910	80 nos.
Lining, brake shoe seco,	47442-1700	80 nos.
Seal, oil,	9828-65109	8 nos.
Glass, w/s,	79411-4590	4 nos.
Weather strip w/s,	79413-1030	4 nos.
Mirror sub ass'y, outside,	87902-2140	4 nos.
Mirror sub ass'y, under,	87901-1230	4 nos.

14.

SPARE PARTS FOR HINO MODEL
"FT173KA" TRUCK

		7 SETS
Gasket kit,	04010-0141	7 nos.
Gasket oil pan,	12151-1030	7 nos.
Ring set, piston std,	13011-1620	7 nos.
V-belt set,	9001-49119	21 nos.
Element set,	15607-1090	48 nos.
Element set, fuel filt,	23401-1030	48 nos.
Gasket kit water,	04016-1008	7 nos.
Hose, rad,	9001-44570	7 nos.
- do -,	9001-44571	7 nos.
Element sub ass'y,	17801-1720	21 nos.
Disc ass'y, clutch,	31250-1083	14 nos.
Cyl. kit,	04031-4022	7 nos.
- do -,	04031-5012	7 nos.
Lining, brake shoe,	47441-1150	48 nos.
Rivet,	9479-06105	3,000 nos.
Gasket, axle,	42321-1330	300 nos.
Lining, brake shoe,	47442-1140	48 nos.
Seal valve stem oil,	13719-1020	42 nos.
Nozzle ass'y,	23650-1100	42 nos.
Starter ass'y,	28100-1442	7 nos.
Alternator ass'y,	27050-1011	7 nos.
Relay ass'y start block,	28410-1121	7 nos.
Relay ass'y intake air,	28620-1110	7 nos.
Bulb,	9008-32106	14 nos.
- do -,	9008-32116	140 nos.
- do -,	9008-31105	140 nos.
- do -,	9008-32132	140 nos.
- do -,	9008-32128	140 nos.
- do -,	9008-32129	140 nos.
- do -,	9008-32104	140 nos.
- do -,	9008-32146	140 nos.
Fuse,	9008-57130	140 nos.
- do -,	9008-57131	140 nos.
- do -, 9008-57133 (9008-57144)		70 nos.
Relay ass'y,	85920-1200	7 nos.
- do -,	85920-1190	7 nos.
Flasher ass'y turn sign,	81980-1250	7 nos.
Motor ass'y wiper,	85110-1280	7 nos.

Bearing clutch,	31242-1110	7 nos.
Bearing ball,	9881-17105	7 nos.
Gasket kit,	04033-0024	7 nos.
Bearing sub ass'y needle,	37402-1180	28 nos.
Bushing,	9993-12202	28 nos.
- do - ,	9993-12101	14 nos.
Gasket,	9003-21187	14 nos.

Pump Ass'y INJECTION _____ 6 NOS

Glass W/S _____ 10 NOS

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15.

SPARE PARTS FOR JEEP, WAGON
 TYPE, STANDARD BODY, 4 x 4,
 NISSAN MODEL "WRG160GFU"

2 SETS

K gasket engine,	10101-C6825	3 nos.
Cap ass'y, oil filter,	15255-TE200	3 nos.
Plug, glow,	11065-T3470	18 nos.
Ring set, piston,	12033-C6812	3 nos.
Strainer ass'y, o.,	15050-J5301	6 nos.
Kit element,	15208-61525	15 nos.
Element ass'y, pa.,	16403-34W00	15 nos.
A element paper,	16546-C6800	9 nos.
Nozzle ass'y,	16620-Y8400	18 nos.
Thermostat ass'y,	21200-76203	3 nos.
Belt fan,	01978-10944	6 nos.
Hose, water by-pass,	21069-61500	3 nos.
Hose, upper,	21501-C6010	3 nos.
Hose, lower,	21503-C6010	3 nos.
Piston kit, clutch,	30611-M4025	6 nos.
Cup kit, clutch,	30622-J2025	6 nos.
Hose ass'y, clutch,	46201-29913	6 nos.
Disc ass'y, clutch,	30100-C7001	6 nos.
Bearing, clutch,	30502-21000	6 nos.
Spring, holder b.,	30514-66300	6 nos.
Cover, dust with,	30542-C6000	6 nos.
Link fusible,	24022-C4200	6 nos.
Fuse, 10A,	24319-V0110	30 nos.
Fuse, 15A,	24319-V0115	30 nos.
Switch ass'y, turn,	25560-C6000	3 nos.
Switch ass'y, stop,	25320-H8500	6 nos.
Switch ass'y, oil,	25250-S6001	3 nos.
Switch ass'y, the.,	11023-G7000	3 nos.
Unit ass'y, turn,	25250-T3400	6 nos.
Relay,	25230-C6100	6 nos.
Relay, egi start,	25230-J5520	6 nos.
Relay ass'y, horn,	26320-25000	6 nos.
Blade ass'y, wind,	26360-A4601	12 nos.
Lamp ass'y, front,	26120-C6100	3 nos.
- do -,	26125-C6100	3 nos.

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Unit ass'y, seal,	02260-231K0	6 nos.
Bulb,	26715-89990	15 nos.
- do -,	26715-C7160	15 nos.
- do -,	26717-C7100	30 nos.
- do -,	26722-C9900	15 nos.
- do -,	26101-87660	15 nos.
- do -,	26736-C0502	9 nos.
Lens, side flash,	26161-H1001	6 nos.
Packing, lens RH,	26163-S5000	6 nos.
Lens, combination,	26521-C6000	3 nos.
- do -,	26526-C6000	3 nos.
- do -,	26523-C6000	3 nos.
- do -,	26528-C6000	3 nos.
Shoe set, FR b.,	41060-76025	12 nos.
Spring,	27141-0401P	30 nos.
- do -,	41021-30100	30 nos.
- do -,	41022-30100	30 nos.
Shoe set, rear b.,	44060-T6425	12 nos.
Spring,	44214-T6000	12 nos.
Piston kit, tan.,	46011-C5526	3 nos.
Strainer, oil,	46093-W1010	6 nos.
Hose ass'y, clutch,	46201-89916	6 nos.
Hose ass'y, brake,	46201-89946	6 nos.
- do -,	46204-C6000	6 nos.
Rib and rug,	6.50-16-6/6	12 nos.
Glass w/s	_____	6 Nos
Pump Ass'y Injection	_____	3 Sets

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16.

<u>SPARE PARTS FOR JEEP, PICK-UP TYPE,</u>		<u>4 SETS</u>
<u>4 x 4, NISSAN MODEL "JGY720TUF"</u>		
K. gasket, eng.,	10101-09W25	6 nos.
Cap ass'y, oil fil.,	15255-T8200	6 nos.
Ring set, piston,	12033-L2002	3 nos.
Hose, water by-pass,	21069-61500	3 nos.
Filter ass'y, oil,	15208-W1123	9 nos.
Gasket, oil filter,	15239-V1700	6 nos.
Hose ass'y, air d.,	11032-31W00	6 nos.
- do -,	16582-29W00	6 nos.
Strainer ass'y, f.,	16400-09W10	9 nos.
Element ass'y,	16546-S0100	9 nos.
Nozzle ass'y,	16620-Y8400	12 nos.
Gasket, nozzle,	16635-J5570	30 nos.
Hose, fuel strainer,	08742-20020	6 nos.
Hose, fuel,	08742-20030	6 nos.
Belt, fan,	01978-10954	12 nos.
Thermostat ass'y,	21200-76203	6 nos.
Gauge ass'y, water,	25080-89902	3 nos.
Plug, glow,	11065-34W00	12 nos.
Hose, upper,	21501-36W00	6 nos.
Hose, lower,	21503-58W00	6 nos.
Knob, throttle c.,	18415-31W10	3 nos.
Element, oil cool,	21301-31W00	3 nos.
Link, fusible,	24022-34W00	9 nos.
Switch ass'y, stop,	25320-H8500	3 nos.
Unit ass'y, turn,	25520-89963	3 nos.
Relay ass'y, horn,	26320-89913	3 nos.
Relay ass'y, glow,	25230-09W00	3 nos.
Socket ass'y, bulb,	26260-C9901	3 nos.
- do -,	26260-N8200	3 nos.
Socket, bulb,	26260-89905	3 nos.
Bulb,	26261-89900	15 nos.
- do -,	26261-89905	15 nos.
- do -,	26261-89906	15 nos.
Blade ass'y, wind,	28890-08W00	12 nos.
Unit ass'y, seale.,	26701-89950	12 nos.
- do -,	26702-89950	12 nos.
Lens, front comb.,	26121-02W00	6 nos.
- do -,	26126-02W00	6 nos.
Packing, lens RH,	26123-01W00	6 nos.

Bulb, RH,	26717-89910	15 nos.
Bulb,	26261-89903	15 nos.
Lens, side flash,	26164-50W00	6 nos.
- do -,	26169-50W00	6 nos.
Bulb,	26261-C9909	15 nos.
Lens, combination,	26554-08W00	6 nos.
- do -,	26559-08W00	6 nos.
Bulb,	26717-89909	15 nos.
Bulb, RH,	26717-89910	15 nos.
Bulb,	26717-89930	15 nos.
- do -,	26261-89903	15 nos.
Lens, licence la.,	26511-P0100	6 nos.
Lens, reverse la.,	26541-18W00	6 nos.
- do -,	26546-18W00	6 nos.
Lamp ass'y, licence,	26510-25W10	6 nos.
Packing, lens,	26513-P0100	6 nos.
Bulb,	26715-89901	15 nos.
Disc ass'y, clutch,	30100-34W01	12 nos.
Bearing, clutch,	30502-21000	12 nos.
Cover, dust with,	30542-E9000	12 nos.
Hose ass'y, clutch,	46211-79915	12 nos.
Gasket, brake ho.,	46237-A4600	30 nos.
Spring, lock brake,	46206-M0200	30 nos.
Seal, oil drive,	38189-N3100	12 nos.
- do -,	38189-U3000	12 nos.
Absorber kit, sh.,	56110-50W25	3 nos.
Seal, oil,	38212-73000	3 nos.
Seal, oil rear a.,	43232-B5000	3 nos.
Seal, oil,	43090-01W00	3 nos.
Absorber kit, sh.,	56210-42W25	3 nos.
Switch ass'y, par.,	36011-89901	3 nos.
Shoe set, rear brake,	44060-T6025	12 nos.
Cup kit, brake w.,	D4100-T6025	12 nos.
- do -,	D4100-T6026	12 nos.
Hose ass'y, brake,	46210-50W02	6 nos.
Piston kit, clutch,	30611-N4025	9 nos.
Gasket, brake ho.,	46237-A4600	9 nos.
Pad kit, disc brake,	41060-09W92	12 nos.
Seal kit, FR disc,	41120-V0326	12 nos.
Tire,	6.50-15-8PR	24 nos.

Glass w/s

Pump Ass'y Injection

12 Nos

4 Nos

17.

SPARE PARTS FOR DIESEL ENGINE D.C. WELDER A.C. GENERATOR 2 WAY MACHINE, HOKUETSU MODEL "PDW27CSW"			4 SETS
Brush holder,	D86426 38106		4 nos.
Brush, carbon (w/lead-wire),	D86426 39103		16 nos.
Bearing,	D08121 06305		4 nos.
Silicon rectifier,	RM100 57003		8 nos.
Terminal, welding,	D86426 65106		8 nos.
Nut, wing,	D02810 80100		8 nos.
Silicon rectifier,	00330 57010		4 nos.
Variable resistor,	00270 56303		4 nos.
Timer ass'y,	00270 44903		4 nos.
Oilpan packing,	K15381 01622		4 nos.
Head gasket,	K15549 03312		4 nos.
Head gasket shim,	K15381 03321		4 nos.
O-ring,	K04811 06130		12 nos.
Gear case packing,	K15531 04131		4 nos.
Oil seal,	K09550 00008		4 nos.
Oil pump packing,	K15261 35151		4 nos.
Water unit packing,	K15221 88131		4 nos.
Bearing case packing,	K15261 04361		4 nos.
Bearing case cover packing,	K15261 04821		4 nos.
Oil seal wheel side,	K19215 04461		4 nos.
Fuel pump packing,	K15241 52141		4 nos.
Inlet manifold packing,	K15261 11821		4 nos.
- do -,	K15261 11831		8 nos.
Exhaust manifold packing,	K15261 12362		12 nos.
O-ring,	K04811 50300		8 nos.
Head cover packing,	K15381 14521		4 nos.
Oil pump packing,	K15231 87132		4 nos.
Brake packing,	K15231 05131		4 nos.
Speed regulation board,	K15261 57211		4 nos.
Water flange packing,	K15261 72921		4 nos.
Injection shim,	K15321 52113		8 nos.
Muffler packing,	K15371 12371		4 nos.
Thermostat cover packing,	K15531 73271		4 nos.
Injection pump shim,	K15381 52112		12 nos.
Air cleaner element ass'y,	K15501 11081		8 nos.
Fuel filter element,	K15231 43563		8 nos.

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Oil filter cartridge,	K15241 32092	40 nos.
Fan belt,	K15549 72531	8 nos.
Inlet valve,	K15393 13111	12 nos.
Exhaust valve,	K15393 13121	12 nos.
Piston ring ass'y,	K15901 21051	12 nos.
Piston pin bush,	K15261 21351	12 nos.
Crank pin metal,	K15531 22311	24 nos.
Crank shaft metal, 1,	K15261 23471	4 nos.
- do -, 2,	K15261 23481	24 nos.
Side metal, 1,	K15261 23531	8 nos.
- do -, 2,	K15261 23541	8 nos.
Nozzle holder ass'y, 1,	K15443 53001	4 nos.
- do -, 2,	K15443 53021	8 nos.
Packing,	K17011 53621	12 nos.
Water pipe, 1,	K15393 72851	4 nos.
- do -, 4,	K15543 72941	4 nos.
Band,	K15108 72873	8 nos.
- do -,	K15261 72782	16 nos.
Overflow pipe, 1,	K15545 72411	4 nos.
Pipe clip,	K14911 42751	8 nos.
Pipe band,	K15221 11722	12 nos.
Water return pipe, 1,	K15531 73342	4 nos.
- do -, 2,	K15531 73351	4 nos.
Water pipe, 2,	K15393 72861	4 nos.
- do -, 3,	K15531 72871	4 nos.
Packing,	K15451 96671	4 nos.
Water pump packing,	K15331 73431	4 nos.
Breather pipe,	K15367 05511	4 nos.
Fuel overflow pipe,	K15261 42513	8 nos.
Pipe clip,	K14971 42751	16 nos.
Charging dynamo		3 pcs
regulator		3 pcs
key ass'y		3 pcs
oil filter		30 pcs
fuel filter		30 pcs
Injection nozzle		18 pcs
injection pump ass'y		3 pcs
Piston ass'y(pistonring)		18 pcs
liner		18 pcs
Gasket kit		18 pcs

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for power unit.

Isuzu Model: -UA4BBI

79 Units.

Element air,	9-14215132-1	16 nos.
Element oil,	1-87810220-1	192 nos.
Element fuel,	9-88511191-1	96 nos.
Belt fan,	5-13671091-0	16 nos.
Radiator hose up,	1-89214348-0	16 nos.
Radiator hose low,	1-89214349-0	16 nos.
Wat hose,	5-13721014-1	16 nos.
Tachometer,	9-83110820-0	8 nos.
Tachometer shaft,	9-83111576-0	8 nos.
Thermometer,	9-83150204-0	8 nos.
Thermometer unit,	9-83151432-0	8 nos.
Oil press meter,	9-83140186-0	8 nos.
Oil press meter unit,	9-82710227-0	8 nos.
Lamp pilot,	5-82240007-0	8 nos.
Resistance control,	5-19732002-0	8 nos.
Glow plug,	9-82513928-2	24 nos.
Starter s.w.,	9-82710227-0	8 nos.
Regulator,	1-81251002-0	16 nos.
Generator ass'y,	1-81200078-1	8 nos.
Starter ass'y,	5-81100045-0	8 nos.
Engine control,	9-23217727-0	8 nos.
Engine stop,	1-23210681-0	8 nos.
Engine o/h p/k kit,	1-87810290-1	16 nos.
Plate asm drive,	1-31240197-0	8 nos.
Head asm cy,	5-11110202-1	8 nos.
Valve ex,	1-12552025-0	48 nos.
Valve in,	1-12551050-0	48 nos.
Valve guide seal,	5-12569001-0	96 nos.
Gasket cyl head,	5-11141056-1	8 nos.
Tappet,	5-12571003-1	96 nos.
Cam shaft,	9-12514803-0	8 nos.
Cam shaft bear,	9-11613035-0	40 nos.

Cam shaft bear,	9-11611048-0	8 nos.
Liner cyl,	5-11261004-0	48 nos.
Piston std,	5-12111013-0	16 nos.
Piston ring,	5-12121005-0	48 nos.
Crank bear kit,	1-11510040-0	8 nos.
Con rod set,	9-12271608-0	48 nos.
Con rod bush set,	5-12251006-0	48 nos.
Oil pan p/k,	1-11367072-0	16 nos.
Seal oil rear,	1-09625195-0	16 nos.
Seal oil front,	5-09625054-0	16 nos.
Cover gear p/k,	1-11322036-0	16 nos.
Pump asm water,	5-13610157-2	8 nos.
Pump p/k,	1-13614010-0	8 nos.
Thermostat,	5-13770031-0	16 nos.
Thermostat p/k,	1-13741008-0	16 nos.
Holder asm nozzle,	5-15330007-1	48 nos.
Holder p/k,	5-15315003-0	48 nos.
Holder cur,	9-09571408-0	48 nos.
Cover dust,	9-15339051-0	48 nos.
Pipe p/k,	1-09630085-0	240 nos.

18. Spare parts for Vertical Turbine Pump

Spare parts for OKAMOTO Model "OHGDC-12-40-4" ----- 79 Units.

Capacity;-45L/sec

TDH:- 40m.

Bottom sleeve bearing,		8 nos. + 60 Nos
Sleeve bearing		48 nos. + 120 Nos
Ball bearing,		16 nos + 40 Nos
Intermediate sleeve bearing		112 nos. + 224 Nos
Casing ring		48 nos. + 120 Nos
Gland packing		32 nos. + 50 Nos
Coupling bolt		64 nos. + 100 Nos
Intermediate sleeve		48 nos. + 120 Nos
Gasket		16 nos. + 40 Nos
Intermediate shaft		16 nos. + 40 Nos
Oil seal,	DM42 15 12	24 nos. + 50 Nos
Bearing,	30309U	32 nos. + 60 Nos

19. Spare parts for Vertical Turbine Pump.

60 L/sec, TDH 45m, EBARA Model "200 MICE" ----- 95 sets.

Bottom sleeve bearing		95 nos.
Sleeve bearing		128 nos.
Ball bearing		64 nos.
Intermediate sleeve bearing		224 nos.
Casing ring		128 nos.
Gland packing		128 nos.
Coupling Bolt		260 nos.
Intermediate sleeve		120 nos.
Bottom sleeve		32 nos.
Gasket		64 nos.
Intermediate shaft		95 nos.
Oil seal	DM 52 75 12	128 nos.
Bearing	30311U	95 nos.
- do-	30312U	95 nos.

資料 K ネパール王国一般統計
(1986年ネパール統計年鑑より抜粋)

・国土及び人口

面積	: 147,181km ²
人口	: 15,022,839人 (男 7,695,336、女 7,327,503) (1982年の総人口 約1,620万人、現在は約1,710万人)
人口増加率	: 2.66% (1961~1981 20年間の平均)
人口密度	: 102人/km ² (本件対象域のジャナカプル県テライ地区は、約350人/km ²)

・宗教別人口比率

	1971年	1981年
ヒンズー教	89.4%	89.5%
仏教	7.5%	5.3%
イスラム教	3.1%	2.7%
その他の宗教	0.1%	2.5%

・言語の人口比 (1981年)

ネパール語	58.4%
マイティリ語	11.1%
ボジュプリ語	7.6%
タルー語	3.6%
タマン語	3.5%
ネワリ語	3.0%
その他の言語	12.8%

・10才以上の経済活動人口比 (1981年)

10才以上の人口	: 10,517,888人
就業人口	: 6,850,886人 (65.1%)
非就業人口	: 3,667,002人 (34.9%)

非就業人口 3,667,002人の内訳比率

家事従事者	61.6%
就学者	22.0%
高齢者	7.4%
慢性患者	6.1%
不具者	5.0%

就業人口 6,851,000人の内訳比率

・職業別

技術職人	0.94
行政管理	0.09
事務職人	0.72
商人	1.25
サービス職	0.24
農水産関係	91.37
日雇労働者	3.12
その他	2.27

・産業別

農林水産	91.15%
鉱工業	0.01%
製造業	0.48%
電気・ガス・水道	0.04%
建設業	0.03%
交通通信	0.11%
商業	1.74%
公務員	4.58%
その他	1.86%

・土地利用状況推計

国土面積 147,181km²のうち

農用地	26,533km ²	18.0%
森林	55,334	37.6%
被雪地	22,463	15.3%
牧草地	19,785	13.4%
水域	4,000	2.7%
居住域・道路	1,003	0.7%
その他	18,033	12.3%

(不毛地・荒廃地・利用不能斜面等)

・消費者物価指数 (全ネパール: 1972/73=100)

	総合的指数	食品関係	交通通信・医療教育等
1979~80	177.6	176.2	180.7
1980~81	201.4	199.9	204.8
1981~82	222.4	221.9	224.0
1982~83	254.0	257.4	247.7
1983~84	269.8	270.9	268.7
1984~85	280.9	274.5	295.3

・為替交換レート(7月中旬)

		1982年	1983年	1984年	1985年	1986年
1 USD	買	13.10	14.40	16.30	17.60	(20.80)
	↓					
ルビ	売	13.30	14.60	16.50	17.80	(21.00)
1 ルビ	買	19.72	16.84	14.90	13.81	(7.69)
	↓					
円	売	19.49	16.67	14.75	13.67	(7.62)

・国際収支(単位 100万ルビ)

	1981/82	1982/82	1983/84	1984/85
輸出(f.o.b.)	1491.5	1132.0	1703.9	2740.6
輸入(c.i.f)	4930.3	6314.0	6514.3	7742.1
貿易収支	-3439.8	-5181.9	-4810.4	-5001.5

資料 2 ネパール王国の主要インフラの整備状況

1) 運輸・通信関連

・道路： 第一次5ヵ年計画が発足した当時（1956年）には、総延長624km（国土236㎢あたりに1kmの割合）であった道路は、国土開発計画の中で高い優先順位を与えられて急ピッチに建設された結果、第六次5ヵ年計画最終年の1984年には約9.2倍の総延長5,717km（26㎢あたり1km）に達した。しかし、我国（日本）の3㎢に1km、バングラデシュの12㎢に1kmという値と比較すると、まだかなり不足しているといえる。道路種別の延長は下表の通りである。

道路種及びその延長

道 路 種	舗 装 部 延 長	砂利舗装部延長	未舗装部延長	計
ハイウェイ	1,708	66	206	1,980
ハイウェイ支線(国道)	542	347	994	1,883
郡 道	59	215	820	1,094
市 道	336	187	237	760
小 計	2,645	815	2,257	5,717

地域（県）別の道路網整備状況は、下表に示す通り、カトマンズを中心とする中部地区が最も進んでおり、13㎢あたり1kmであるが、中西部地区、極西部地区では58㎢、41㎢に1kmの道路を備えているにすぎない。

道路種及びその延長

Development Region and Area influenced per Km of Rode (Km)	LENGTH OF ROADS AND ITS TYPE IN DIFFERENT ZONES JULY 1984				
	Zone	Black Top	Gravel	Earthen	Total Km.
Eastern 21	Mechi	135	127	308	570
	Koshi	233	31	124	388
	Sagarmatha	188	88	88	364
Central 13	Jenakpur	129	28	272	429
	Bagmati	630	262	217	1109
	Narayani	376	74	121	571
Western 26	Gandaki	245	2	58	305
	Lumbini	425	61	306	792
	Dhawalagiri	—	—	—	—
Mid-Western 58	Rapti	98	51	305	454
	Bheri	128	17	126	271
	Karnali	—	—	—	—
Far-Western 41	Seti	29	48	106	183
	Mahakali	29	26	226	281
Total		2645	815	2257	5717

Source : Nepal Road Statistics 1984, Department of Roads.

なお、主要幹線道路の建設は、ほとんどが下表のような援助協力国の資金・技術両面にわたる協力で進められてきた。

道路建設に関する国別援助協力状況

国名	建設路線数及び延長
インド	7路線 873km (含共同プロジェクト)
中国	5 " 349km
イギリス	3 " 216km
アメリカ	4 " 275km (含共同プロジェクト)
ソ連	1 " 109km
スイス	1 " 110km
(アジア銀)	1 " 78km

これらの道路の利用状況に関しては、全国的資料がないため明らかでないが、全般に非常に低い利用状況で、道路の建設コスト、維持管理の費用を勘案すれば、かなり非経済的なものであると思われる。ちなみに1984年に道路局がセントラルD.R.の西部で実施した交通量調査では、1日の交通量が、プトワール・バイラワ間で1,400台、ヘタウダ・ナラヤンガール間で700台弱という少数であった。

・空路

国際及び国内の空路延長、旅客数、航空貨物量は、1983/84で下記の通りである。

インターナショナル : 28,555km、153,800人 2,106ton
 ドメスティック : 15,011km、227,900人 781ton

・鉄道

ネパールの鉄道は、ジャナカプール・ジャイナガール間の52kmに限られる。1983/84年に1,192,000人の旅客及び18,100tonの貨物を輸送した。

・ロープウェイ

カトマンズ・ヘタウダ間に42kmのロープウェイがあり、1983/84年に11,600tonの貨物を輸送した。

・通信

電話設備の具備状況は、1985年現在、22都市に23局あり、15,000回線弱を有しているが都市部に集中しており、遠隔山間地は皆無の状況である。都市部に於いても、回線不足と、能率のよい自動交換器の数が少ないなどの理由により、しばしば用をなさない状態が生じる。

電報局は、1985年現在85局ある。全国75の郡都にはすべて電報局を設置する方針で、山岳地帯に於ける設置をとくに重視している。

郵便網は、比較的よく整備され、中央郵便局、国際郵便局（以上カトマンズ）、80局弱の郡郵便局のほかに、Sub-Post Office、Additional Post Office が全国に約1,800局置かれている。県別局数を下表に示す。

NUMBER OF POST OFFICES BY ZONES
 1981/82 TO 1984/85

Zones	1981/82	1982/83	1983/84	1984/85
Mechi	104	110	120	123
Koshi	143	155	169	173
Sagarmatha	111	119	135	139
Janakpur	139	147	168	170
Bagmati	195	195	215	217
Narayani	114	120	137	141
Lumbini	129	137	152	152
Gandaki	135	144	158	164
Dhawalagiri	82	87	97	101
Rapti	89	95	105	108
Bheri	70	76	80	90
Karnali	57	63	67	69
Soti	76	84	96	100
Mahakali	87	114	118	131
Nepal	1526	1646	1821	1863

Source: Dept. of Postal Services.

2) エネルギー

・森林資源

ネパールの家庭用燃料は、99%が薪に依存している。急激に増大する燃料需要のため森林の乱伐が行なわれ、1963/64年に面積にして640万ヘクタールあった森林が1980年には430万ヘクタールに、1983/84年には280万ヘクタールに減少したと推計されている。年々10万ヘクタール以上の減少率である。種々の森林保護・植林プロジェクトが実施されているが需要増大のスピードに追いつかず、このままの状態で行くと10数年以内に森林資源が枯渇すると推計される。

植林の加速とならんで、薪にかわる燃料の開発（例えばバイオガス等）、燃料効率のよい改良かまどの普及などが急務とされている。

・電力資源

ネパールは、国土の4/5の広大な山岳地を擁し、水資源は豊富である。年間の流量量は、2千億 m^3 もあり、これをすべて水力発電に用いると8万MW以上の発電可能な水量である。しかし、1985年現在の水力発電は25カ所の施設で、わずかに130MWにとどまっている。

火力発電はディーゼルにより30MW程度行なわれている。1980/81年の国民1人あたりのエネルギー消費量が11KOE（石油換算kg）という少なさ（バングラデシュの1/3、インドの1/14）であるが、電力が消費される割合は、そのうちの1%にも満たない。

3) 社会開発サービス関連

・教育

1981年のセンサスによれば、ネパールの識字率は23.3%、成人の識字率19%という低さであった。ネパールの経済的社会的な発展が急速的に行なわれなかった一つの大きな原因として、このような一般教育の低水準さがあげられる。

現行の教育制度と就学率（1982/83年）は下記のようなものである。

		就 学 率	
		目標率	達成率
－初 等 教 育	6才から5年間	75%	85%
－前記中等教育	2年間	34%	26%
－後記中等教育	3年間	30%	28%

学校数は次表のように年々増大しているが、貧困の故にドロップ・アウトする児童が多いことや、教材不足・教師の質の問題等もあって教育の内容は依然として低レベルにとどまっているようである。また女子就学児童数が男児の1/3程度という現実もあり、当国の初等中等教育には問題が多い。

NUMBER OF PRIMARY, LOWER SECONDARY AND
SECONDARY SCHOOLS BY ZONE, 1981 TO 1984

Zone	1983 (School)			1984 (School)		
	Primary	Lower Secondary	Secondary	Primary	Lower Secondary	Secondary
Mooli	769	209	69	769	216	72
Koshi	999	323	117	1031	349	124
Sagarmatha	891	261	84	952	275	89
Janakpur	883	281	89	908	294	97
Bazmati	1341	391	176	1367	410	202
Narayani	921	219	83	946	227	87
Gandaki	1146	321	131	1166	331	145
Lumbini	1089	311	121	1146	328	131
Dhawalagiri	630	177	60	638	183	68
Rapti	733	175	51	734	179	68
Karnali	331	85	22	351	89	25
Bheri	610	164	42	649	172	61
Soti	605	161	49	617	170	64
Mahakali	454	151	43	463	151	44
Total	11299	3268	1124	11660	3396	1235

Source: Ministry of Education and Culture.

NUMBER OF STUDENTS ENROLLED IN HIGHER
EDUCATION BY INSTITUTES AND LEVEL OF
EDUCATION, 1981/82 TO 1983/84

Institute & Level	1981/82	1982/83*	1983/84*	1984/85*
1. Engineering	1491	1314	1940	2148
a. Lower	—	—	106	229
b. Certificate	1448	1314	1768	1837
c. Diploma	43	—	68	82
d. Degree	—	—	—	—
2. Medicine	1163	1053	817	1139
a. Lower	321	257	178	336
b. Certificate	741	714	507	618
c. Diploma	101	82	132	170
d. Degree	—	—	—	6
3. Agriculture and Animal Science	914	1306	1097	1176
a. Lower	—	—	—	—
b. Certificate	710	1124	784	788
c. Diploma	204	182	313	438
d. Degree	—	—	—	—
4. Forestry	412	445	299	333
a. Lower	—	—	—	—
b. Certificate	383	378	220	234
c. Diploma	30	67	79	99
d. Degree	—	—	—	—
5. Education	3570	4019	3535	3407
a. Lower	253	310	693	416
b. Certificate	2528	2344	1839	1776
c. Diploma	948	1181	1228	982
d. Degree	141	184	76	233
6. Humanities and Social Sciences	26337	26619	17918	21552
a. Lower	406	431	423	377
b. Certificate	18849	18849	11202	13605
c. Diploma	5263	6547	6400	6448
d. Degree	1819	2133	744	2032
7. Science & Technology	6903	7917	8281	8825
a. Lower	—	—	—	—
b. Certificate	6701	6401	7073	7483
c. Diploma	786	1108	1069	1003
d. Degree	326	342	139	309
8. Management	15406	12195	10783	12403
a. Lower	—	—	—	—
b. Certificate	11694	7210	7416	8304
c. Diploma	2017	3493	2801	2733
d. Degree	1695	1392	566	1366
9. Law	3124	2654	3184	4309
a. Lower	—	—	—	—
b. Certificate	2359	1879	2139	3261
c. Diploma	858	775	943	948
d. Degree	—	—	—	—
10. Sanskrit	586	548	375	372
a. Lower	—	—	—	—
b. Certificate	333	281	226	210
c. Diploma	155	134	83	66
d. Degree	98	133	66	66
Total	60296	52070	48329	55555

* Excluding Private Colleges.
Source: Tribhuvan University.

高等教育部門は大学教育となり、
通常次の三課程に段階的に分かれて
いる。

1. Certificate Level 2年
2. Diploma Level 2～3年
3. Degree Level 3年

これと別枠に Lower Level (1
年)があり、これと、Certi.Levelの
み修復した者とが社会に出て中級レ
ベルの技術的マンパワーとなる。大
学の学部毎の学生数は右表に示す通
りであるが、中級～高級の技術者の
絶対数が、特に農業・医療・エンジ
ニアリングの部門で不足している。
また教育内容の質的低水準も大きな
問題である。

職業教育は、大学の教育の他に、
各国の援助機関の教育活動も行なわ
れている。

・医療・保健

ネパールの医療保健状態はきわめて劣悪である。医師1人あたりの人口24,700人(692/17,100,000)、平均余命48才、乳幼児死亡率147人/1000人、1人1日あたりカロリー摂取量1870カロリー、給水人口80%(都市部)5%以下(村落部)などの関連指標はいずれも低水準である。

病院・診療所・保健所等下表に示すようにわずかづつふえてはいるものの、人口増に追いつかぬこと、また都市部に集中しているため山岳地村落の医療は相変わらずレベルが引きあげられていない。

NUMBER OF HOSPITALS AND BEDS BY ZONE
(1983/84 TO 1986 FEB.)

Zone	1983/84		1984/85		1986 Feb.	
	Hospitals	Beds	Hospitals	Beds	Hospitals	Beds
1. Mechi	2	65	2	65	4	95
2. Koshi	11	289	11	289	11	289
3. Sagarmatha	7	140	7	140	7	140
4. Janakpur	5	130	5	130	5	130
5. Bagmati	20	1850	20	1850	20	1850
6. Narayani	5	175	5	175	6	200
7. Gandaki	5	215	5	215	6	320
8. Lumbini	8	241	8	241	9	256
9. Dhawalagiri	2	30	2	30	2	30
10. Rapti	1	15	1	15	1	15
11. Kermali	1	15	1	15	1	15
12. Bheri	4	80	4	80	5	101
13. Seti	5	195	5	195	7	225
14. Mahakali	4	70	4	70	5	85
Total	80	3522	80	3522	89	3767

Source:- Planning Division, Ministry of Health.

NUMBER OF HEALTH CENTERS, HEALTH POSTS AND
AYURVEDIC DISPENSARIES BY ZONE
(1983/84 TO 1986 FEB.)

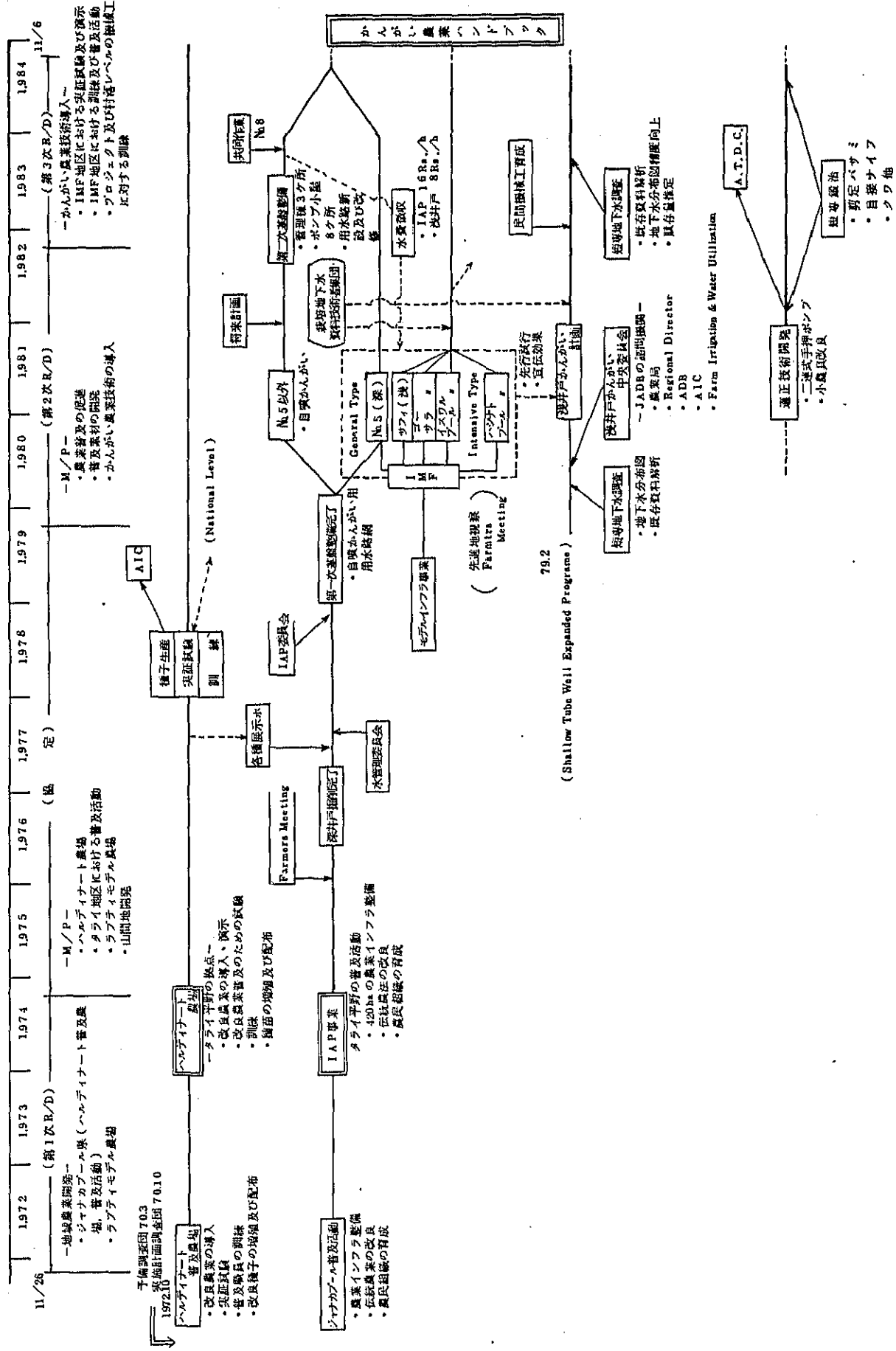
Zone	1983/84			1984/85			1986 Feb.		
	HC	HP	AD	HC	HP	AD	HC	HP	AD
1. Mechi	3	37	7	3	37	8	1	37	9
2. Koshi	1	63	8	1	63	10	1	64	10
3. Sagarmatha	2	60	7	2	60	7	2	60	7
4. Janakpur	2	60	9	2	60	9	2	60	9
5. Bagmati	3	78	17	3	78	18	3	78	18
6. Narayani	1	57	6	1	57	7	1	57	9
7. Gandaki	2	66	17	2	66	20	1	66	21
8. Lumbini	3	58	9	3	58	9	2	58	11
9. Dhawalagiri	1	30	5	1	30	5	1	30	6
10. Rapti	2	51	0	2	51	0	2	51	6
11. Kermali	2	40	4	2	40	4	2	40	4
12. Bheri	2	44	6	2	44	8	1	44	8
13. Seti	2	49	9	2	49	10	1	49	12
14. Mahakali	—	39	3	—	39	4	—	39	5
Total	26	744	113	26	744	125	20	745	133

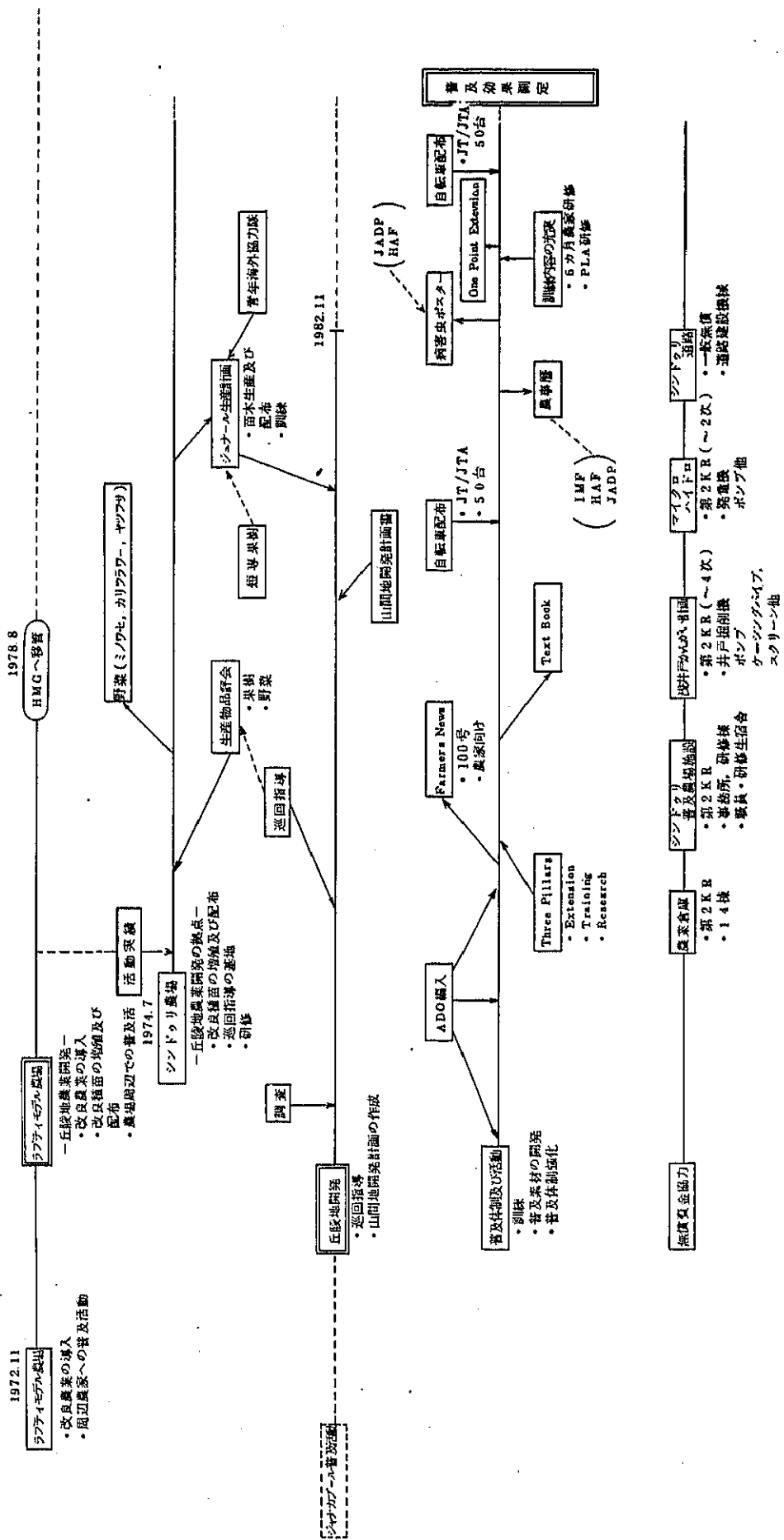
HC Health Centre; HP Health Post.

AD — Ayurvedic Dispensary.

Source :- Planning Division, Ministry of Health

JADP年間の協力活動の変遷と相互関係





[JADP]

サブセンタ一年次計画と実績

	ハルナイナート農場	ラプティモチル農場 ナワラプアール農場	シンドゥリ農場	ジャナカブーア園芸農場
1976/78	<ul style="list-style-type: none"> 食用作物栽培試験 水稲 (Masuli, IR系4種, CH-45, JAYA, Chandina 他) 小麦 (NL-30, RR-21, HD-1982 他) メイイズ (Rampur yellow Hetauda compo.) 雑穀 (粟, 野稈, 緑豆) 	<ul style="list-style-type: none"> 野菜栽培試験及び種子生産 (カリフラワー, キャベツ, ブロッコリ, トマト, 大根, 白菜, スイカ, キュウリ, ジャガイモ 他) メイイズ 	<ul style="list-style-type: none"> 動物種子生産 野菜苗生産 (25種) 農場土壌管理 	<ul style="list-style-type: none"> 野菜果樹苗木生産 (21,000本) 野菜種子生産 (13,500kg) 苗木生産農家育成
1977/78	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 90t 実 139t 小麦 7 55 豆類 11 15 試験及び展示 4.3ヶ所 4.5ヶ所 他 (粟木生産, 野菜生産, 米樹生産) 	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 3t 実 2.3t 小麦 3 63 	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 18,000本 実 6,9710本 試験及び展示 29ヶ所 37ヶ所 水稲種子生産 0 900kg 野菜種子生産 0 504kg 小麦 0 970kg 	<ul style="list-style-type: none"> 活動項目 試験及び展示 目 6ヶ所 実 6ヶ所 果樹苗木生産 5,000本 9765本 野菜種子生産 300kg 381kg 野菜苗生産 100,000本 152,731本 他
1978/79	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 110t 実 125t 小麦 50 33 メイイズ 10 7 農民子一 20回 2回 農家園地試験 27回 27回 試験/展示 15回 20回 	<ul style="list-style-type: none"> (8月ラプティモチル農場+種政府へ移管) 	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 2t 実 32t 小麦 221 221 メイイズ 215kg 215kg 野菜苗生産 59,500本 農民子一 1,930t 	<ul style="list-style-type: none"> 活動項目 試験及び展示 目 1回 実 1回 果樹苗木生産 8,100本 8,826本 野菜種子生産 300kg 391kg 野菜苗生産 26,061本 他
1979/80	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 112t 実 131t 小麦 40 22 メイイズ 10 12 農民子一 2 0 農家園地試験 15 11 試験/展示 20回 20回 		<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 2t 実 57t 小麦 13t 13t メイイズ 0.1t 0.1t 試験/展示 1.4回 1.5回 農民子一 2回 2回 野菜苗生産 7,823t 	<ul style="list-style-type: none"> 活動項目 試験/展示 目 1回 実 1回 果樹苗木生産 8,100本 8,826本 野菜種子生産 300kg 391kg 野菜苗生産 26,061本 他
1980/81	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 114t 実 138t 小麦 40 8 メイイズ 10 8 農民子一 2 2 農家園地試験 15 17 試験/展示 20回 22回 		<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 3t 実 45t 小麦 2t 2t メイイズ 0.2t 0.2t 試験/展示 1.6ヶ所 1.6ヶ所 農民子一 2回 3回 野菜苗生産 71,587本 	<ul style="list-style-type: none"> 活動項目 試験/展示 目 2回 実 1回 果樹苗木生産 10,000本 14,400本 野菜種子生産 500kg 109,486本 野菜苗生産 他
1981/82	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 116t 実 91t 小麦 40t 39t メイイズ 10t 8t 農民子一 16回 16回 農家園地試験 10回 10回 試験/展示 10回 10回 	(7月ナワラプアール農場JADP編入)	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 32t 実 32t 小麦 15t 15t メイイズ 150kg 112kg 試験/展示 17回 19回 農民子一 2回 3回 野菜苗生産 48,600本 	<ul style="list-style-type: none"> 活動項目 試験/展示 目 1回 実 1回 果樹苗木生産 11,500本 10,930本 野菜種子生産 300kg 605kg 野菜苗生産 90,357本 他
1982/83	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 16t 実 19t 小麦 40t 28t メイイズ 10t 4t 野菜種子 25kg 127kg 果樹苗木 6,790本 他 		<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 1t 実 16t 小麦 0.5t 1.5t メイイズ 9回 0.2t 試験/展示 1回 17回 農民子一 2回 2回 野菜苗生産 48,600本 	<ul style="list-style-type: none"> 活動項目 試験/展示 目 2回 実 2回 果樹苗木生産 9,000本 10,600本 野菜種子生産 300kg 288kg 他
	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 116t 実 132t 小麦 40t 42t メイイズ 10t 5t 野菜 25kg 111kg 試験/展示 13回 13回 農家園地試験 13回 13回 	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 78,800本 実 72,052本 野菜種子生産 41,400kg 48,000kg ジャガイモ 16t 16t クチャップ 6,000本 6,000本 トマトジュース 2,000本 2,000本 他 	<ul style="list-style-type: none"> 活動項目 水稲種子生産 目 2t 実 72,052本 小麦 1.5t 4,800kg メイイズ 0.2t 16t 試験/展示 12回 6,000本 農民子一 2回 2,000本 	<ul style="list-style-type: none"> 活動項目 果樹苗木生産 目 11,000本 実 11,611本 野菜種子生産 300kg 485kg 他

