ATTACHMENT

1. OBJECTIVE

The objective of the Project is to provide necessary road construction equipment for the construction and maintenance of the Road No.8.

2. PROJECT SITE

National Road No.8.

(The Project location is shown in the Annex-1)

3. RESPONSIBLE ORGANIZATION, EXECUTING ORGANIZATION

- (1) Ministry of Communication, Transport, Post and Construction (hereinafter referred to as the "Ministry") shall serve as the responsible organization for the Project implementation, on condition that the Japan's Grant Aid is extended to the Project.
- (2) Enterprise Road No. 8 of the ministry is reponsible for the operation and maintenance of equipment procured under the Grant.
- (3) After completion of the National Road No.8, the equipment procured under the Grant shall be used for the construction of the National Road No.1 (khamkeut-Thathom-Xiengkhuang) by the Enterprise Road No.8.

4. EQUIPMENT REQUESTED BY THE GOVERNMENT OF LAO PDR

The list of equipment requested by the Government of Lao PDR is shown in Annex - 2. Each item was selected based upon the machinery component required for the work programmed by the Ministry.

However, the final list of equipment will be decided after further studies be conducted in Japan.

5. DELIVERY POINT OF EQUIPMENT

Delivery point of the equipment procured under the Grant shall be "the 28 Km Camp" of the Enterprise Road No. 8 on the National Road No. 8.

6. JAPAN'S GRANT AID SYSTEM

(1) The Government of Lao PDR has understood the system of Japanese Grant Aid explained by the team.

(2) The Government of Lao PDR will take necessary measures described in Annex-3 for smooth implementation of the Project, on condition that the Grant Aid Assistance by the Government of Japan is extended to the Project.

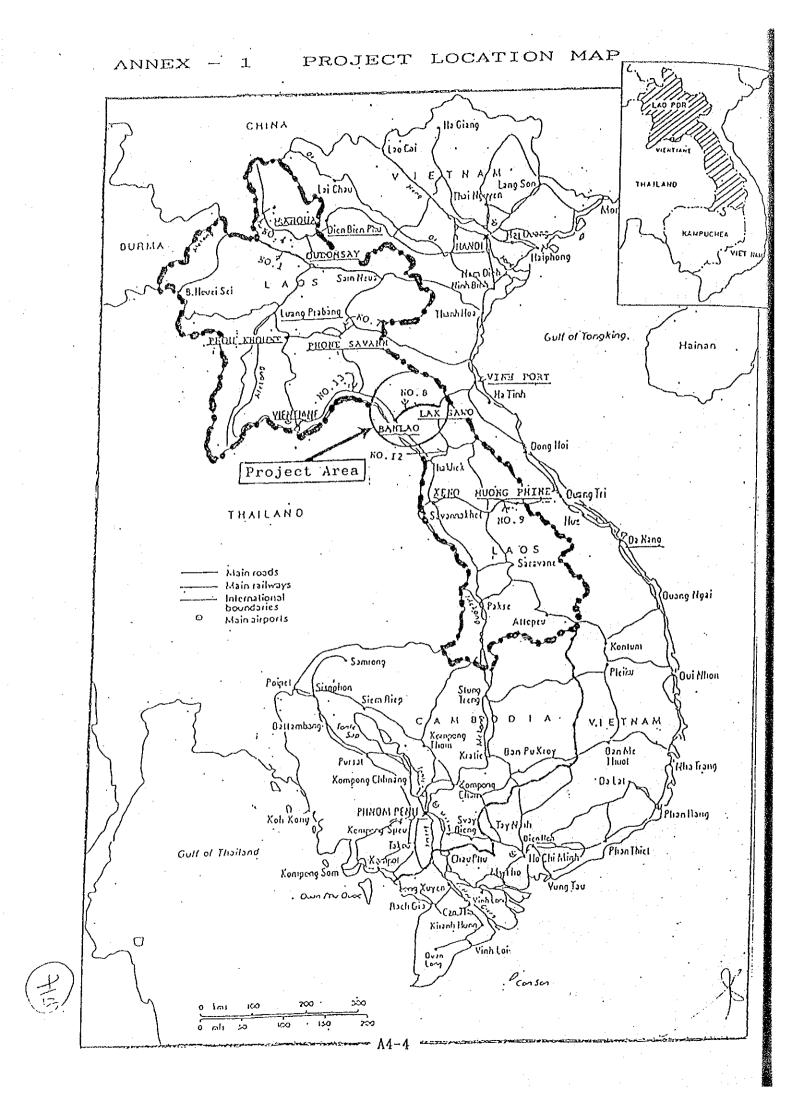


7. SCHEDULE OF THE STUDY

Based on the Minutes of Discussions and technical examination of the study results, JICA will complete the final report and will send it to the Government of Lao PDR by the end of April 1993.







| | | Quan | tity |
|--|--|--------------------------------------|---|
| Group Equipment No. | Specification | Priority A | Priority B |
| Group I(Earthworks) 1) Bulldozer 2) Hyd.Excavator 3) Vibration Roller 4) Vibration Roller 5) Tire Roller 6) Motor Grader 7) Wheel Loader 8) Spare Parts | 225 HP St.tilt w/Ripp 19 t 0.7 m3 Bucket 11 t Front Padfoot 9.5 t Front Smooth 9 t Front & Rear Drive 230 HP 4.0 m Blade 110 HP 1.5 m3 Bucket for 2 years Operation | 3 1 2 2 3 | (+2) ((+1) ((+1) ((0) ((0) ((0) (|
| 3) Pick-Up | Works) 8 t 4 x 2 w/Crane 2-3 t Double Cabin 4 WD 6000 1tr. 4000 1tr. w/meter 30 t 280 Hp for 2 years Operation | 10 1 2 2 1 1 | (+4) 14 (+1) 2 (0) 2 (0) 2 (+1) 2 (0) 3 |
| 2) Vibration Roller 3) Drilling Machine 4) Jack Hammer 5) Concrete Mixer 6) Concrete Mixer 7) Asphalt Distributor 8) Mobile Workshop 9) Maintenance Car 10) Screen for Aggregate 11) Generator | 7.5 m3/min 600 Kg Crawler Type 7.0 m3/m Sinker Handy 10 Kg 0.3 m3 0.5 m3 8000 ltr. w/Welding Equipment 5 t flat bed 35-25t/h 100 KVA 220v 15 t 2-Theodolites, 2-Leve | 5 2 2 1 1 1 1 0 | (+2) 5 (+1) 2 (+1) 2 (0) 5 (+1) 3 (0) 1 (0) 1 (0) 1 (0) 1 (1) 1 (0) 1 |

Remarks :

- 1) "Priority A" means equipment which are absolutely indispensable to supplement the essential core of the existing fleet of the Enterprise Construction National Road No.8 in order to proceed the construction of the project road.
- 2) "Priority B" means equipment which include additional equipment to "Priority A" to formulate the standard fleet of the same Enterprise to accomplish the project within their targeted construction period.





ANNEX - 3

Necessary measures to be taken by the Government of Lao PDR as follows:

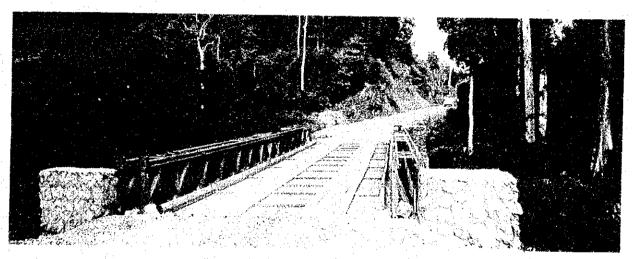
- 1. To provide necessary permissions, license and other authorizations for smooth implementation of the Project.
- 2. To bear advising commission of the authorization to pay (A/P) and payment commission to the Japanese foreign exchange bank for banking services based upon the Banking Arrangement (B/A).
- 3. To ensure prompt unloading, tax exemption, and custom clearance of the goods for the Project at port of disembarkation (Thakhek) in Lao PDR.
- 4. To ensure prompt unloading and internal transportation of the goods purchased and/or imported under the Grant Aid for the Project.
- 5. To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contract such facilities as may be necessary for their entry into Lao PDR, and stay therein for the performance of their work.
- 6. To exempt Japanese nationals from customs duties, internal taxes and other fisical levies which may be imposed in Lao P.D.R with respect to the supply of the products and services under the verified contracts.
- 7. To maintain and use properly and effectively the equipment and materials provided under the verified contracts.
- 8. To bear all the expenses other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation of the equipment.
- 9. To coordinate and solve any matters related which may arise with third party and inhabitants living in the Project area during implementation of the Project.



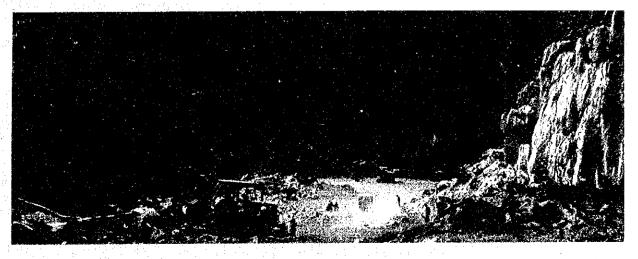




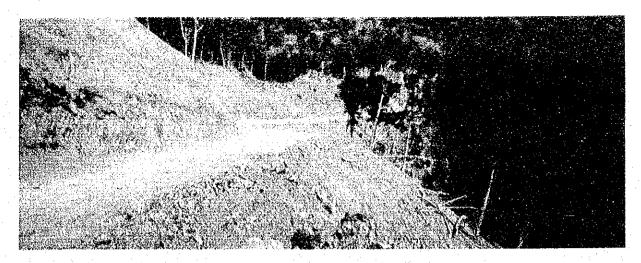
Project Beginning Point, Ban Lao Sta. 0+000 Junction with National Road No.13S



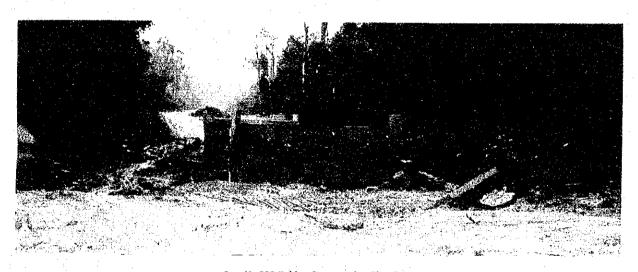
Sta. 31+000 Bailey Bridge (Panel Bridge), Upper Slab



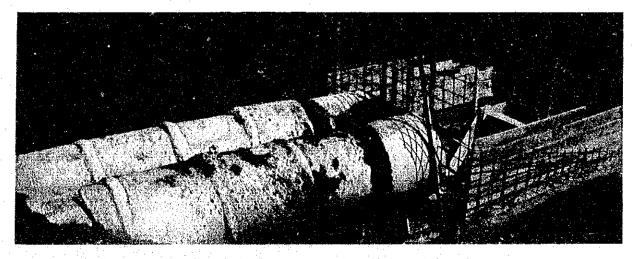
Sta. 34+000 Hard Rock Excavation Site



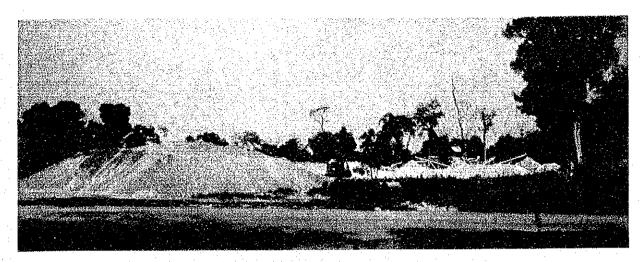
Sta. 38+000 Filling Soil Site



Sta. 41+000 Bridge Construction Site, Substructure



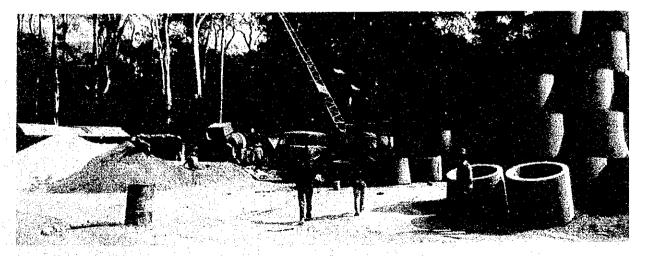
Installation of Pipe Culvert 2 ø100



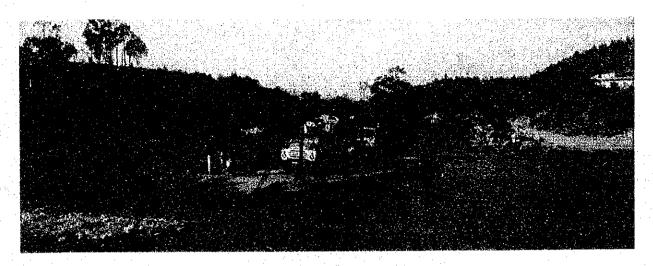
Whole Scene of Crushing Plant in Ban Lao



Quarry in Ban Lao



Operation of Concrete Plant for Concrete Pipes



Nam Theun Bridge under Construction



Temporary Bank for Piling for Bridge Work



Piling Operation

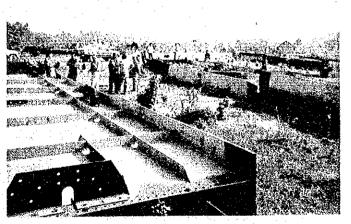
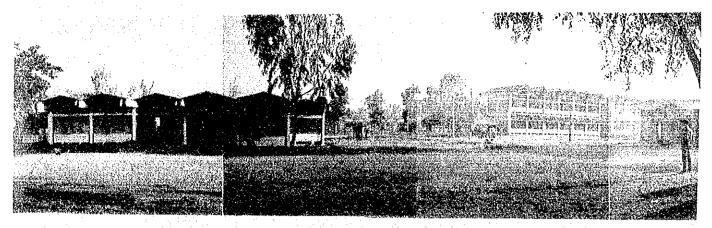
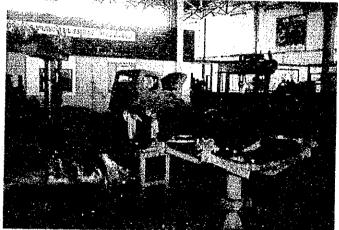


Plate Girders provided by then USSR

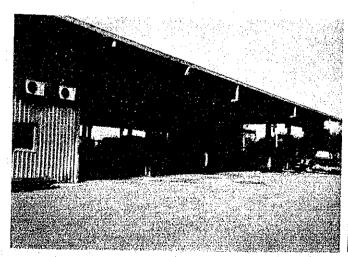


School of Communication and Transport (SCI), MCTPC





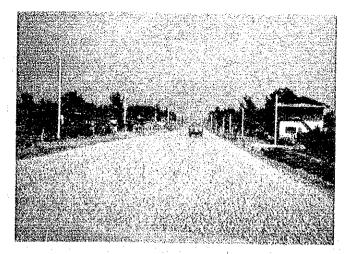
Don Chong Workshop, Lao-Soviet Heavy Duty Garage



Lao-Australian Heavy Duty Workshop (Private)



Workshop



Pavement National Road No.13S



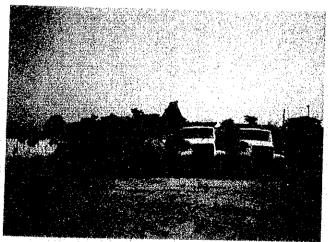
Base Course Work National Road 13S: aggregates be mixed with sand, lateritic solid (solid sandy soil with gravel) excavated at the borrow pits.



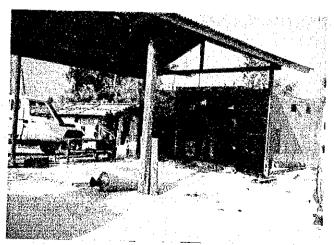
Base Course Material being placed by "Finisher".



Borrow Pit, Mixing Operation:
lateritic soil + sand: 10%
sandy soil: 10%
crushed rock: (0-40 mm): 80%



The aggregates (0-40 mm) produced at the crushing plant shall be transported to the borrow pits.



Maintenance Crew of Project Workshop National Road No.13S

APPENDIX 6-1 Equipment Inventory of National Road No.8 Construction Company

| | | * | | | |
|--------|----------------------|------------|------------|-----------|------|
| No | Equipment | Maker | Model_year | Condition | Wear |
| | | | | | |
| | | 1 1 | 1 | | |
| 104 | AIR COMPRESSOR PV10 | USSR | 1988 | OPE/R | 0 |
| | AIR COMPRESSOR PV10 | USSR | 1988 | OPE/R | 0 |
| | AIR COMPRESSOR PV10 | USSR | 1989 | OPE/R | 0 |
| | ASPHALT DISTRIBUTOR | DC39 4000L | 1988 | OPE/R | 0 |
| | ASPHALT DISTRIBUTOR | DC39 4000L | 1992 | OPE | 0 |
| | BEND MACH./STEEL BAR | 14 | 1981 | OPE | 0 |
| | BULLDOZER D7G | CAT | 1991 | OPE | 0 |
| | BULLDOZER D7G | CAT | 1992 | OPE | . 0 |
| | BULLDOZER DZ110 | USSR | 1985 | SCR | 5 |
| | BULLDOZER DZ110 | USSR | 1986 | SCR | 5 |
| | BULLDOZER DZ110 | USSR | 1984 | SCR | 5 |
| | BULLDOZER DZ110 | USSR | 1986 | SCR | 20 |
| | BULLDOZER DZ110 | USSR | 1984 | SCR | 35 |
| | BULLDOZER DZ110 | USSR | 1986 | SCR | 35 |
| | BULLDOZER DZ110 | USSR | 1984 | SCR | 30 |
| | BULLDOZER DZ110 | USSR | 1986 | SCR | 40 |
| | BULLDOZER DZ110 | USSR | 1986 | SCR | 40 |
| | BULLDOZER DZ110 | USSR | 1984 | SCR | 25 |
| | BULLDOZER DZ110 | USSR | 1984 | REP | .0 |
| | BULLDOZER DZ110 | USSR | 1987 | REP | 0 |
| | BULLDOZER DZ110 | USSR | 1988 | OPE/R | 0 |
| 073 | BULLDOZER DZ110 | USSR | 1988 | OPE/R | 0 |
| | BULLDOZER DZ110 | USSR | 1987 | REP | . 0 |
| | BULLDOZER DZ171 | USSR | 1990 | OPE | 0 |
| 11/ | CONCRET MIXER TRUCK | KAMAZ 4 M3 | 1986 | OPE | 0 |
| | CUTTING MACH./STEEL | | 1981 | REP | 0 |
| | DRILLING MACH. BMK4 | USSR | 1982 | REP | 0 |
| | DRILLING MACH.BMK4 | USSR | 1982 | REP | 0 |
| | DRILLING MACHINE | BTC-150 | 1985 | SCR | 35 |
| | DRILLING MACHINE | BTC150 | 1982 | OPE/R | . 0 |
| 091 | DRILLING MACHINE | BTC150 | 1984 | OPE/R | 0 |
| | DUMP TRUCK 8 T | USSR-MAZ | 1987 | OPE/R | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | OPE/R | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | OPE/R | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | OPE/R | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | . 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1988 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| | DUMP TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| 019 | 2011 | MAZ 5549 | 1987 | REP | 0 |
| V I. U | | | 4.00 | | |
| . : | | A6 - 1 | | | |
| | | | | | |

| No Equi | pment | Maker | Model_year | Condition | Wear |
|--|----------------------------|--|--|--------------|---------|
| _ | TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| 021 DUMP | TRUCK 8 T | MAZ 5549 | 1987 | REP | 0 |
| 043 DUMP | TRUCK 8 T | MAZ 5549 | 1984 | SCR | 5 |
| 044 DUMP | TRUCK 8 T | MAZ 5549 | 1984 | SCR | 5 |
| 045 DUMP | TRUCK 8 T | MAZ 5549 | 1985 | SCR | 40 |
| 022 FLAT | BED TRUCK 8 T | MAZ 5335 | 1987 | REP | 0 |
| 023 FLAT | | MAZ 5335 | 1987 | REP | 0 |
| 046 FLAT | BED TRUCK 12 T | KRAZ | 1985 | SCR OPE/R | 20 |
| 035 FLAT | BED TRUCK GE | GAZ 2.5 T GAZ 2.5 T | 1989 1989 | OPE/R | 0 |
| The second secon | BED TRUCK GE TANK TRUCK | MAZ 8000 L | | OPE/R | . 0 |
| 024 FUEL 025 FUEL | TANK TRUCK | KAMAZ12000 | 1986 | REP | Õ |
| 047 FUEL | TANK TRUCK | | 1982 | SCR | 45 |
| 027 FUEL | TANK TRUCK GE | ZIL 6000 L | 4 1 | REP | 0 |
| 028 FUEL | TANK TRUCK GE | ZIL 6000 L | 1989 | OPE/R | 0 |
| 029 FUEL | TANK TRUCK GE | ZIL 6000 L | 1989 | OPE/R | . 0 |
| and the second s | TANK TRUCK GE | ZIL 6000 L | 1984 | REP | 0 |
| 099 GENEF | RATOR | GERMAN | 1991 | OPE | 0 |
| 094 GENEF | | USSR | 1985 | OPE/R | 0 |
| 095 GENER | | USSR | 1988 | OPE/R | 0 |
| 096 GENER | | USSR | 1985 | OPE/R | 0 |
| 092 GENER | | USSR | 1988 | OPE/R | 0 |
| | RATOR 100KW | USSR | 1988 1987 | OPE/R SCR | 0 25 |
| | RATOR 15KW RATOR 30KW | USSR USSR | 1981 | REP | 0 |
| | ATOR IT75L | YAMMAR | 1991 | OPE | Ö |
| | ATOR IT75L | YAMMAR | 1990 | OPE | ő |
| | ATOR TAGOH | YAMMAR | 1990 | OPE | ŏ |
| 087 HID.E | | E03322 | 1988 | OPE/R | 0 |
| 059 HYD.E | XCAVATOR | E05111 | 1988 | SCR | . 5 |
| 060 HYD.E | | E04121 | 1988 | SCR | 5 |
| the second secon | XCAVATOR | E04121 | 1988 | SCR | 50 |
| | XCAVATOR | E04121 | 1988 | REP | 0 |
| 086 HYD.E | XCAVATOR | E04121 | 1988 | REP | 0 |
| 040 JEEP | OT. | CHEROKI | 1991 | OPE | 0 |
| 037 JEEP | | UAZ | 1988 | OPE | 0 |
| 038 MICLO | ENANCE CAR | UAZ | 1988 1989 | OPE OPE/R | 0 |
| 039 MICLO | | UAZ | 1986 | REP | Ö |
| | GRADER DZ122 | USSR | 1988 | REP | Ö |
| | GRADER DZ122 | USSR | 1988 | REP | ō |
| 041 PICK- | | TOYOTA | 1991 | OPE | 0 |
| 042 PICK- | | TOYOTA | 1991 | OPE | 0 |
| | Y SCREEN PDCU25 | | | OPE | 0 |
| 077 ROLLEI | | SAKAI | 1991 | OPE | 0 |
| | H ROLLER 12 T | DU48 | 1990 | OPE | 0 |
| | ON MACH./ST.BAR | ### | 1988 | OPE | 0 |
| | ROLLER DU16 ROLLER DU16 | USSR | 1984 | REP | 0 |
| 026 TRAIEI | | USSR KRAZ | 1987 | OPE/R | 0 |
| | FORMAR/WELDING | NNAZ | 1986 1981 | REP REP | 0 |
| | CRANE 10 T | KC3561 | 1989 | OPE | 0 |
| | CRANE 10 T | KC3561 | 1985 | REP | Ŏ |
| | CRANE 10 T | the contract of the contract o | 1984 | REP | ŏ |
| 048 WATER | TANK TRUCK | ZIL 6000 L | a contract of the contract of | SCR | 45 |
| | TANK TRUCK GE | ZIL 6000 L | 1983 | REP | 0 |
| | | ZIL 6000 L | 1987 | REP | 0 |
| | TANK TRUCK GE | ZIL 6000 L | and the second of the second o | REP | 0 |
| | TANK TRUCK GE | ZIL 6000 L | | OPE/R | 0 |
| 102 WELDIN | | to the second se | | OPE/R | 0 |
| 103 WELDIN | LOADER BM845 | | | OPE | 0 |
| | | · · | | OPE OPE | 0 |
| | LOADER T018 | and the second s | | OPE/R | 0 |
| | | | | | |

SERVICEABLE EQUIPMENT

| 54.50 | | MONTHUM | MAKER | плаом | YEAR | CONDITION | WEAR |
|-------|------|-----------------------|---|----------|------|-----------|------|
| | | EQUIPMENT | DC39 4000L | 1992 | | OPE | |
| | | ASPHALT DISTRIBUTOR | * 1 | 1981 | | OPE | |
| | 111 | BEND MACH./STEEL BAR | • | 1991 | | OPE | |
| | | BULLDOZER D7G | CAT | 1992 | | OPE | |
| | | BULLDOZER D7G | CAT | 1990 | | OPE | |
| | 078 | | USSR | | | OPE | |
| | | CONCRET MIXER TRUCK | * | 1986 | | OPE | |
| | 099 | Charter | GERMAN | 1991 | | OPE | |
| | 098 | GENERATOR IT75L | A | 1991 | | | |
| | 100 | GENERATOR IT75L | YAMMAR | 1990 | | OPE | |
| | | GENERATOR TAGOH | YAMMAR | 1990 | | OPE | |
| ١ | | JEEP | CHEROKI | 1991 | | OPE | * . |
| | | JEEP GE | UAZ | 1988 | | OPE | • |
| | | MAINTENANCE CAR | | 1988 | | OPE | 4 |
| | | PICK-UP: | TOYOTA | 1991 | | OPE | |
| | | PICK-UP | TOYOTA | 1991 | | OPE | |
| | 111 | QUARRY SCREEN PDCU25 | | (1978) | | OPE | |
| | 7.10 | ROLLER SV500TF | SAKAT | 1991 | : . | OPE | • |
| | 077 | SMOOTH ROLLER 12 T | DU48 | 1990 | | OPE | |
| | 079 | SMOOTH ROPPER 19 1 | D 0.10 | 1988 | | OPE | |
| | 112 | TENSION MACH. ST. BAR | KC3561 | 1989 | | OPE | |
| | 064 | | | 1988 | | OPE | |
| | 103 | WELDING MACHINE | VOLVO | 1978 | | OPE | |
| | 083 | WILLIAM DOLLERS | · | 1978 | | OPE | |
| | 084 | WHEEL LOADER BM845 | VOLVO | J. U 1 U | | | - |

| ************************************** | | | 4 - 2° |
|--|--|----------------|---------------------|
| NO EQUIPMENT | MAKER | 24.1140.000.00 | YEAR CONDITION WEAR |
| 104 AIR COMPRESSOR PV10 | USSR | 1988 | OPE/R |
| 105 AIR COMPRESSOR PV10 | USSR | T388 | OPE/R |
| 106 AIR COMPRESSOR PV10 | USSR | 1989. | OPE/R |
| 068 ASPHALT DISTRIBUTOR | DC39 4000L | 1988 | OPE/R |
| 072 BULLDOZER DZ110 | USSR | 1988 | OPE/R |
| 073 BULLDOZER DZ110 | USSR | 1988 | OPE/R |
| 090 DRILLING MACHINE | BTC150 | 1982 | OPE/R |
| 091 DRILLING MACHINE | PTC150 | 1984 | OPE/R |
| 001 DUMP TRUCK 8 T | USSR-MAZ | | OPE/R |
| 002 DUMP TRUCK 8 T | MAZ 5549 | | OPE/R |
| 003 DUMP TRUCK 8 T | MAZ 5549 | 1987 | OPE/R |
| 004 DUMP TRUCK 8 T | | 1987 | OPE/R |
| 035 FLAT BED TRUCK GE | | | OPE/R |
| 036 FLAT BED TRUCK GE | | 1989 | OPE/R |
| 024 FUEL TANK TRUCK | MAZ 8000 L | 1989 | OPE/R |
| 028 FUEL TANK TRUCK GE | ZIL 6000 L | | OPE/R |
| 029 FUEL TANK TRUCK GE | ZIL 6000 L | | OPE/R |
| 094 GENERATOR 60KW | USSR | 1985 | OPE/R |
| 095 GENERATOR 60KW | USSR | 1988 | OPE/R |
| 096 GENERATOR 60KW | USSR | 1985 | OPE/R |
| 092 GENERATOR 100KW | USSR | 1988 | OPE/R |
| 093 GENERATOR 100KW | USSR | 1988 | OPE/R |
| 087 HID. EXCAVATOR | E03322 | 1988 | OPE/R |
| 038 MICLOBUS | UAZ | 1989 | OPE/R |
| · · | and the second s | | |
| 089 TIRE ROLLER DU16 | USSR | 1987 | OPE/R |
| 034 WATER TANK TRUCK GE | | 1988 | OPE/R |
| 102 WELDING MACHINE | USSR | 1986 | OPE/R |
| 082 WHEEL LOADER T018 | USSR | 1988 | OPE/R ' |

| NO | *************************************** | CONTRACTOR OF THE PROPERTY OF | MAKER | MODEL | YEAR | CONDITION | WEAR |
|--|---|---|---|-------|------|--|------|
| 071 BULLDOZER DZ110 073 BULLDOZER DZ110 074 BULLDOZER DZ110 075 BULLDOZER DZ110 076 BULLDOZER DZ110 077 BULLDOZER DZ110 077 BULLDOZER DZ110 078 BULLDOZER DZ110 079 BULLDOZER DZ110 070 BULLDOZER DZ110 070 BURLDOZER DZ110 070 BURD TRUCK BWK4 070 BURLLING MACH. BWK4 070 BURLLDOZER 070 BURLLING MACH. BWK4 070 BURLLDOZER 070 BURLLING MACH. BWK4 070 BURLLBOZER 070 BURLLING MACH. BWK4 070 BURLLDOZER 070 BULLLING MACH. BWK4 070 BULLDOZER 070 BULLDOZER 070 BULLDZER 070 BULLDOZER 0 | NO | EQUIPMENT DALLO | | | 1 | REP | |
| 074 BULLDOZER DZ110 110 CUTTING MACH./STEEL 108 DRILLING MACH./STEEL 109 DRILLING MACH.BMK4 109 DRILLING MACH.BMK4 109 DRILLING MACH.BMK4 1005 DUMP TRUCK 8 T MAZ 5549 1987 REP 1006 DUMP TRUCK 8 T MAZ 5549 1987 REP 1007 DUMP TRUCK 8 T MAZ 5549 1987 REP 1008 DUMP TRUCK 8 T MAZ 5549 1987 REP 1009 DUMP TRUCK 8 T MAZ 5549 1987 REP 1010 DUMP TRUCK 8 T MAZ 5549 1987 REP 1010 DUMP TRUCK 8 T MAZ 5549 1987 REP 1011 DUMP TRUCK 8 T MAZ 5549 1987 REP 1012 DUMP TRUCK 8 T MAZ 5549 1987 REP 1013 DUMP TRUCK 8 T MAZ 5549 1987 REP 1014 DUMP TRUCK 8 T MAZ 5549 1987 REP 1015 DUMP TRUCK 8 T MAZ 5549 1987 REP 1016 DUMP TRUCK 8 T MAZ 5549 1987 REP 1017 DUMP TRUCK 8 T MAZ 5549 1987 REP 1018 DUMP TRUCK 8 T MAZ 5549 1987 REP 1019 DUMP TRUCK 8 T MAZ 5549 1987 REP 1019 DUMP TRUCK 8 T MAZ 5549 1987 REP 1019 DUMP TRUCK 8 T MAZ 5549 1987 REP 1019 DUMP TRUCK 8 T MAZ 5549 1987 REP 1019 DUMP TRUCK 8 T MAZ 5549 1987 REP 1019 DUMP TRUCK 8 T MAZ 5549 1987 REP 1020 DUMP TRUCK 8 T MAZ 5549 1987 REP 1030 DUMP TRUCK 8 T MAZ 5549 1987 REP 1041 DUMP TRUCK 8 T MAZ 5549 1987 REP 1052 DUMP TRUCK 8 T MAZ 5549 1987 REP 1053 DUMP TRUCK 8 T MAZ 5549 1987 REP 1054 DUMP TRUCK 8 T MAZ 5549 1987 REP 1055 DUMP TRUCK 8 T MAZ 5549 1987 REP 1056 DUMP TRUCK 8 T MAZ 5549 1987 REP 1057 DUMP TRUCK 8 T MAZ 5549 1987 REP 1058 DUMP TRUCK 8 T MAZ 5549 1987 REP 1059 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1050 DUMP TRUCK 8 T MAZ 5549 1987 REP 1060 DUMP TRUCK 8 T MAZ 5549 1987 REP 1070 DUMP TRUCK 8 T MAZ 5549 1987 REP 1080 DUMP TRUCK 8 T MAZ 5549 1987 REP 1090 DUMP TRUCK 8 T MAZ 5549 1987 REP 1090 DUMP TRUCK 8 T MAZ 5549 1987 REP 1090 DUMP TRUCK 8 T MAZ 5549 1987 REP 1090 DUM | 070 | BOUTDONER DATTO | | | • | REP | |
| 110 CUTTING MACH./STEEL 108 DRILLING MACH.BMK4 109 DRILLING MACH.BMK | 071 | BOPPDONER DATTO | | | | REP | |
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| 080 MOTOR GRADER DZ122 USSR 1988 REP 081 MOTOR GRADER DZ122 USSR 1984 REP 088 TIRE ROLLER DU16 USSR 1984 REP 026 TRAIEL 20 T KRAZ 1986 REP 107 TRANSFORMAR/WELDING 1981 REP 065 TRUCK CRANE 10 T KC3561 1985 REP 066 TRUCK CRANE 10 T KC3561 1984 REP 031 WATER TANK TRUCK GE ZIL 6000 L 1983 REP 032 WATER TANK TRUCK GE ZIL 6000 L 1987 REP | 039 | MICLOBUS | UAZ | | | | • |
| 081 MOTOR GRADER DZ1ZZ | 080 | | | | | | |
| 038 TIRE ROLLER DOTO 026 TRAIEL 20 T 107 TRANSFORMAR/WELDING 1081 REP 107 TRANSFORMAR/WELDING 065 TRUCK CRANE 10 T 066 TRUCK CRANE 10 T 07 KC3561 1984 088 TIRE ROLLER DOTO 1980 REP 1981 REP 1982 REP 1983 REP 1983 REP 1983 REP 1983 REP 1983 REP 1983 REP | 081 | MOTOR GRADER DZ122 | | | | | |
| 026 TRATEL 20 1 107 TRANSFORMAR/WELDING 065 TRUCK CRANE 10 T | 088 | TIRE ROLLER DU16 | | | | | |
| 107 TRANSFORMAR, WELDTRO 065 TRUCK CRANE 10 T KC3561 1985 REP 066 TRUCK CRANE 10 T KC3561 1984 REP 031 WATER TANK TRUCK GE ZIL 6000 L 1983 REP 032 WATER TANK TRUCK GE ZIL 6000 L 1987 REP | 026 | TRAIEL 20 T | KRAZ | | | | |
| 065 TRUCK CRANE 10 T KC3561 1985 066 TRUCK CRANE 10 T KC3561 1984 REP 031 WATER TANK TRUCK GE ZIL 6000 L 1983 REP 032 WATER TANK TRUCK GE ZIL 6000 L 1987 REP | 107 | TRANSFORMAR/WELDING | | | | | |
| 066 TRUCK CRANE 10 1 RED 031 WATER TANK TRUCK GE ZIL 6000 L 1983 REP 032 WATER TANK TRUCK GE ZIL 6000 L 1987 REP | | TRUCK CRANE 10 T | | | | | |
| 031 WATER TANK TRUCK GE ZIL 6000 L 1983 REP 032 WATER TANK TRUCK GE ZIL 6000 L 1987 REP | | TRUCK CRANE 10 T | KC3561 | | | | |
| 032 WATER TANK TRUCK GE ZIL 6000 L 1987 | 031 | WATER TANK TRUCK GE | ZIF 8000 P | | | | |
| 033 WATER TANK TRUCK GE XIL 6000 L 1983 REF | 032 | WATER TANK TRUCK GE | XIT 8000 P | | | | |
| OOD WILL THE | 033 | WATER TANK TRUCK GE | XIT 8000 F | TAGA | | 11.65 (| |

| والمستقوم والمستقوم والمستقوم المستقوم والمستقوم والمستو | | MODEL | YEAR CONDITION | WEAR |
|--|------------|-------|---------------------------------------|------|
| NO EQUIPMENT | MAKER | MODEL | SCR | 5 |
| TO A CARD DY LI | USSR | 1985 | SCR | . 5 |
| U49 DUBLOCKED DV110 | USSR | 1986 | | 5 |
| 030 BOMBOOM D7110 | USSR | 1984 | SCR | 20 |
| DOT DOTTO | USSR | 1986 | SCR | |
| 052 BULLDOZER DZ110 | USSR | 1984 | SCR | 35 |
| 053 BULLDOZER DZ110 | USSR | 1986 | SCR | 35 |
| 054 BULLDOZER DZ110 | USSR | 1984 | SCR | 30 |
| 055 BULLDOZER DZ110 | | 1986 | SCR | 40 |
| 056 BULLDOZER DZ110 | USSR | 1986 | SCR | 40 |
| 057 BULLDOZER DZ110 | USSR | 1984 | SCR | 25 |
| 058 BULLDOZER DZ110 | USSR | | SCR | 35 |
| 062 DRILLING MACHINE | BTC-150 | 1985 | SCR | 5 |
| The state of the s | MAZ 5549 | 1984 | · · · · · · · · · · · · · · · · · · · | 5 |
| 77 0 77 | MAZ 5549 | 1984 | SCR | 40 |
| | MAZ 5549 | 1985 | SCR | |
| The Division and the manual of the | KRAZ | 1985 | SCR | 20 |
| 049 LPVI DED THOOK | ZIL 6000 L | 1982 | SCR | 45 |
| 047 FUEL TANK TRUCK | USSR | 1987 | SCR | 25 |
| 063 GENERATOR 15KW | E05111 | 1988 | SCR | , 5 |
| 059 HYD. EXCAVATOR | | 1988 | SCR | 5 |
| 060 HYD. EXCAVATOR | E04121 | 1988 | SCR | 50 |
| OGI HYD. EXCAVATOR | E04121 | 4005 | SCR | 45 |
| 048 WATER TANK TRUCK | ZIL 6000 L | 1900 | | |

APPENDIX 6-2 Ratio of Spare Parts Cost and Cumulative Hours of Operation (C1 - C17)

The tables of spare parts cost estimation are made from the both data of major construction equipment operation hours and spare parts cost ratio for the purchased value of the equipment.

These data was analyzed and prepared by CPC based on the data from its practical experience in the Construction Equipment Management System Project of the National Road Network Maintenance in Honduras.

METHOD OF USING TABLE

(1) Element of Equipment

Model of Equipment: Bulldozer D7G Class

Operating cumulative hours: 5,000 hs assumed

Cost of New Equipment: US\$200,000.-

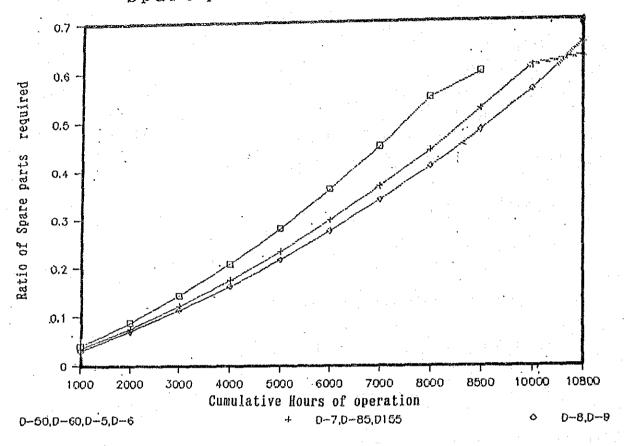
(2) Estimation of Spare Parts Cost

The constant is calculated as 0.2327 when employing bulldozer D7G per 5,000 hours. The cumulative parts cost is obtained by multiplying new equipment cost for the constant.

US\$200,000.- x 0.2327 = US\$46,540.-

Bulldozer

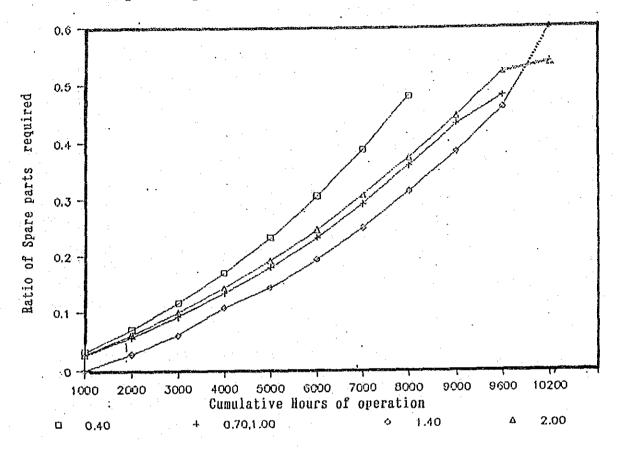
Spare parts costfor repair



| Model D-50 D-60 D-5 | | 1000 | 2000 | 3000 | 4000 | 5000 0.2803 | 6000 0.3613 | 7000 0.4505 | 0000 0.5481 | 8500 0.6000 | 10000 | 10800 |
|------------------------------|-----|--------|--------|--------|--------|----------------|----------------|----------------|----------------|----------------|--------|--------|
| D-6 D-7 D-85 D-155 | - 1 | 0.0343 | 0.0749 | 0.1215 | 0.1742 | 0.2327 | 0.2971 | 0.3673 | D.4430 | 0.5247 | 0.6119 | 0.6300 |
| D-0 | | 0.0302 | 0.0700 | 0.1133 | 0.1620 | 0.2159 | 0.2750 | 0.3392 | 0.4007 | 0.4831 | 0.5627 | 0.6500 |

Hyd. Excavator

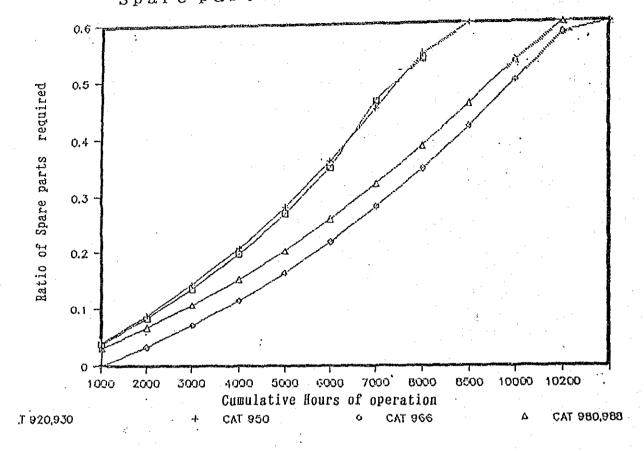
Spare parts cost for repair



| | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 9600 | 10200 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------|--------|
| 0.40 m3 | 0.0322 | 0.0706 | 0.1164 | 0.1705 | 0.2333 | 0.3056 | 0.3877 | 0.4800 | <u>. 1</u> | | |
| 0.70 m3 1.00 m3 | 0.0265 | 0.0570 | 0.0925 | 0.1335 | 0.1003 | 0.2333 | 0.2929 | 0.3592 | 0.4325 | 0.4800 | |
| .1.40 m3 | 0.0204 | 0.0615 | 0.1081 | 0.1442 | 0.1945 | 0.2510 | 0.3142 | 0.3039 | 0.4606 | 0.6000 | |
| 2.00 m3 | 0.0204 | 0.0616 | 0.0990 | 0.1433 | 0.1923 | 0.2469 | 0.3073 | 0.3734 | 0.4456 | 0.5236 | 0.5400 |

Wheel Loader

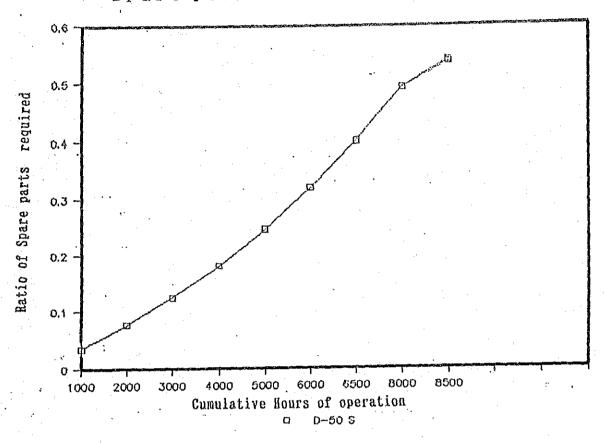
Spare parts cost for repair



| Hours Model | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 0000 | 8500 | 10000 | 10200 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------------|
| | 0.0371 | 0.0020 | 0.1353 | 0.1975 | 0.2609 | 0.3496 | 0.4636 | 0.5400 | | | |
| CAT 950 | 0.0394 | 0.0872 | 0.1432 | 0.2076 | 0.2003 | 0.3613 | 0.4505 | 0.5401 | 0.6000 | | • • • • • • • • • • • • • • • • • • • |
| CAT 966 | 0.0323 | 0.0704 | 0.1142 | 0.1638 | 0.2191 | 0.2003 | 0.3472 | 0.4190 | 0.4983 | 0.5825 | 0.6000 |
| CAT 980 CAT 988 | 0.0303 | 0.0650 | | 0.1523 | 0.2032 | 0.2593 | 0.3205 | 0.3068 | 0.4503 | 0.5350 | 0.6000 |

Crowler Loader

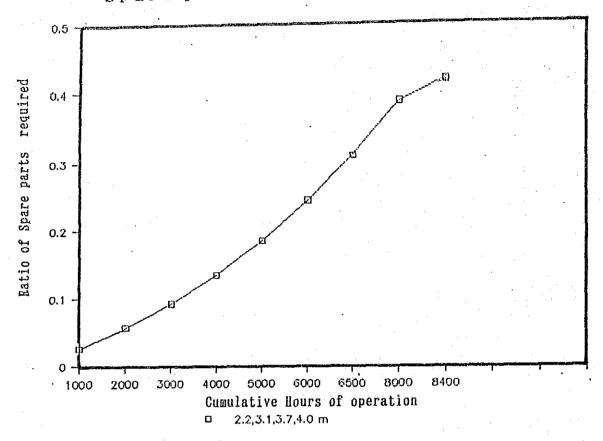
Spare parts cost for repair



| distribution of the last of th | - | | | | الأخذاب الأرواني البياني | | - | |
|--|----------|------|------|--------|--------------------------|--------|--------|--------------------|
| Hours | 2000 | 3000 | 4000 | 5000 | 6000 | 6500 | 0000 | 0500 |
| Model 1000 | | | | 0.2469 | 0.3200 | 0.4015 | 0.4917 | 0.5400 |
| ID-50 S Q 0347 | 1 0.0.00 | | | | | | | المستناسف المستمين |

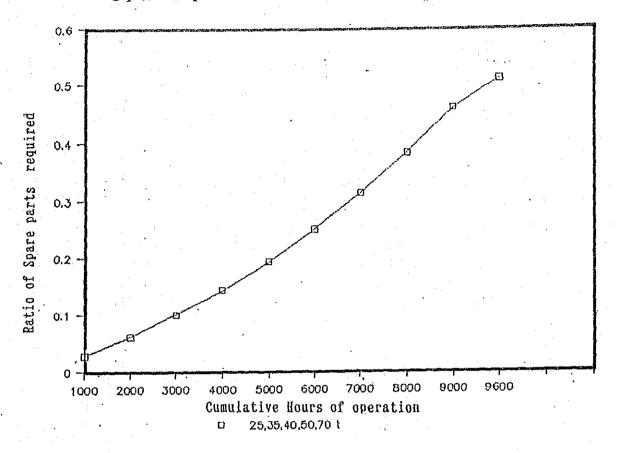
Motor Grader

Spare parts cost for repair



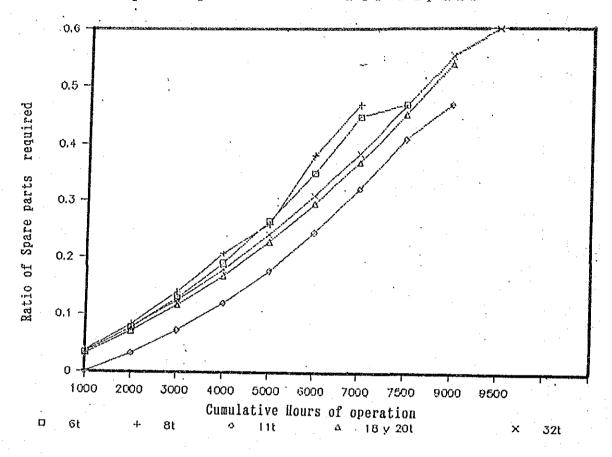
| 1 | Mours | and the second second second second | , | | · · | | | | | | 1 |
|---|----------------|-------------------------------------|--------|--------|--------|--------|--------|--------|---------|--------|----|
| ı | Model \ | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 8400 | l. |
| ı | 2.2 m | 0.0262 | 0.0565 | 0.0922 | 0.1342 | 0.1046 | 0.2428 | 0.3098 | 0.3865. | 0.4200 | ľ |
| · | 3.1 m 3.7 m | | | | j | | • | | · ' | , | I |
| ł | 3.7 m 4.0 m | | | | | ٠ | | | | | |

Crowler Crane



| Hours Model | 1000 | 2000 | 3000 | 1000 | -5000 | 6000 | 7000 | 8000 | 9000 | 9600 |
|----------------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|
| | 0.0284 | 0.0615 | 0.1000 | 0.1442 | 0.1945 | 0.2510 | 0.3142 | 0.3839 | 0.4606 | 0.5100 |
| 35 t 40 t | | | | | | | : | | | • |
| 50 t 70 t | | | | _ | | ــــــــــــــــــــــــــــــــــــــ | | | | |

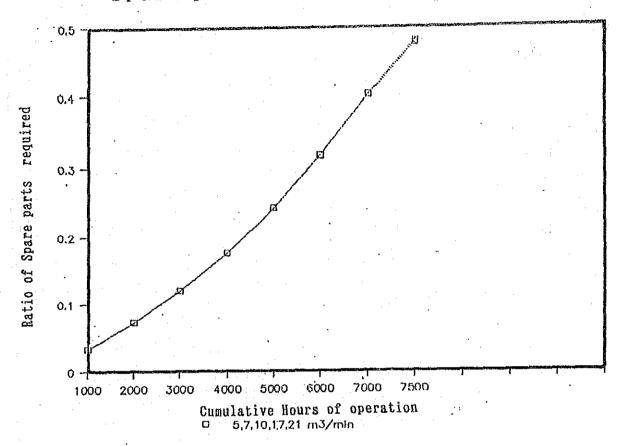
Dump Truck



| llour | Ş . | | | | | | | - | | | | ····· |
|---------|--------|--------|----------|--------|--------|-------------|--------|--------|---------------|--------|------------|--------|
| Model 🔪 | 1000 | 2000 | 3000 | 1000 | 5000 | 6000 | 6800 | 7000 | 7200 | 7500 | | T |
| 6 t | 0.0351 | 0.0776 | 0.1292 | 0.1912 | 0.2643 | 0.000 | - | | 7200 | 7600 | 9000 | 9500 |
| 0 t | 0.0374 | 0.000 | | | 0.2013 | 0.3493 | | 0.4469 | 0.4680 | | | |
| | 0.03/4 | 0.0832 | 0.1394 | 0.2074 | 0.2592 | 0.3024 | 0.4600 | | | | | + |
| 11 t | 0.0331 | 0.0727 | 0.1204 , | 0.1772 | 0.2440 | 0.3212 | | | | | ļ <u> </u> | |
| 18 t | 0.0326 | 0.0212 | | | | 0.3412 | | 0.4095 | <u> </u> | 0.4680 | | |
| 20 t | 0.0326 | 0.0713 | 0.1165 | 0.1687 | 0.2281 | 0.2947 | 1 | 0.3680 | | 0.4505 | 0.5100 | |
| 32 t | 0.0349 | 0.0764 | 0.1247 | 0.1205 | | | | | | | | |
| - | | 4 | V.1217 | 0.1795 | 0.2410 | 0.3092 | | 0.3839 | · · · · · ·] | 0.4654 | 0.5535 | 0.6000 |

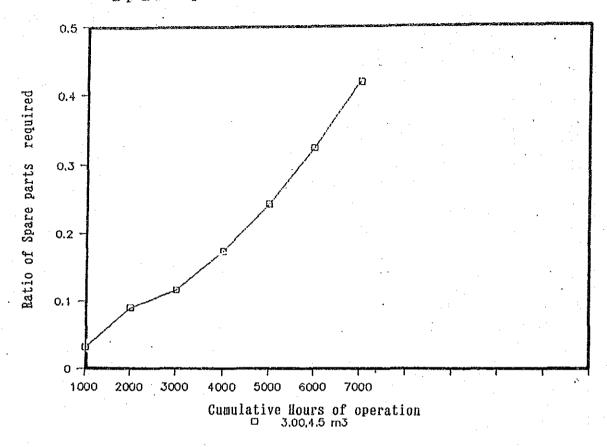
Compressor

Spare parts cost for repair



| Hours Model | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 7800 |
|---|------|--------|--------|--------|--------|--------|--------|--------|
| 5 m3/min 7 m3/min 10 m3/min 17 m3/min 21 m3/min | | 0.0728 | 0.1202 | 0.1965 | 0.2421 | 0.3176 | 0.4035 | 0.4800 |

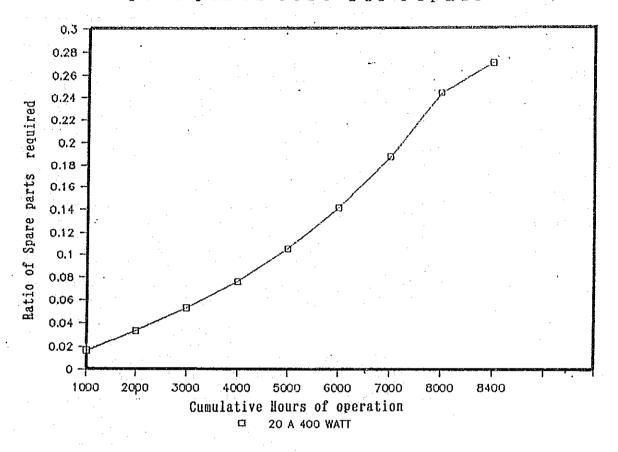
Concret Mixing Truck



| Hour | 3 ! | ļ ' | [: | | | | |
|---------|--------|--------|--------|--------|--------|--------|--------|
| Model > | 1000 | 2000 | 3000 | 4000 | 2000 | 6000 | 7000 |
| | 0.0319 | 0.0700 | 0.1160 | 0.1739 | 0.2428 | 0.3244 | 0.4200 |
| 4.5 m3 | | | | | | | 1 |

C - 1 0

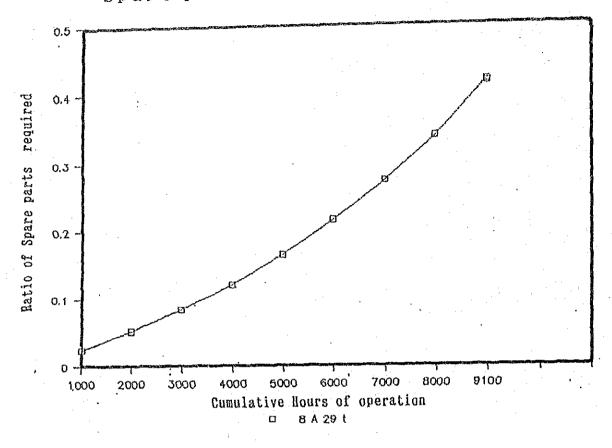
Generator



| Hours Model | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 8400 |
|---------------------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 20 Watt 50 Watt | | 0.0335 | 0.0531 | 0.0766 | 0.1059 | 0.1421 | 0.1875 | 0.2440 | 0.2900 |
| 75 Watt 125 Watt 175 Watt | | | | | | | | | • |
| 300 Watt 400 Watt | | | | · . | | | | | |

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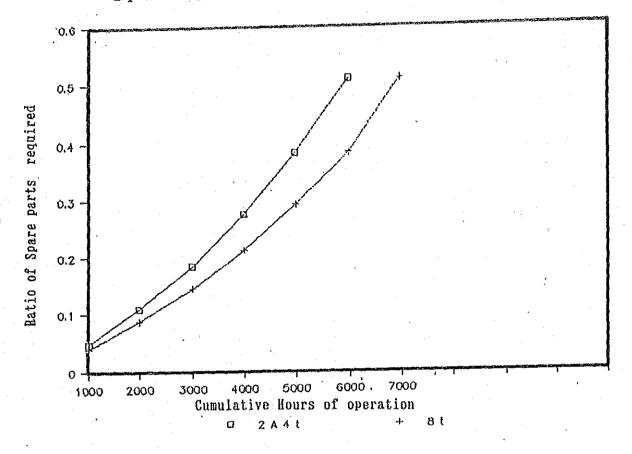
Tire Roller



| | | 2000 | J00 <i>0</i> | 1000 | 5000 | eóóo | 7000 | 8000 | 9100 |
|--------|--------|------|--------------|------|--------|-------|--------|--------|--------|
| 0-29 t | 0.0241 | | 0.0834 | | 0.1645 | 0.215 | 0.2726 | 0.3382 | 0.4200 |

Vibration Roller

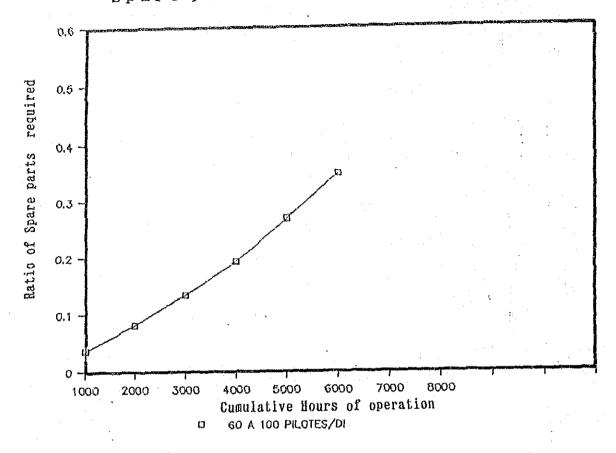
Spare parts cost for repair



| llours Model | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|
| | 0.0177 | 0.1084 | 0.1839 | 0.2755 | 0.3033 | 0.5100 | |
| 8 t | 0.0389 | 0.0865 | 0.1442 | | 0.2924 | 0.3839 | 0.5100 |

Diesel Hummer of Concrete Pile

Spare parts cost for repair

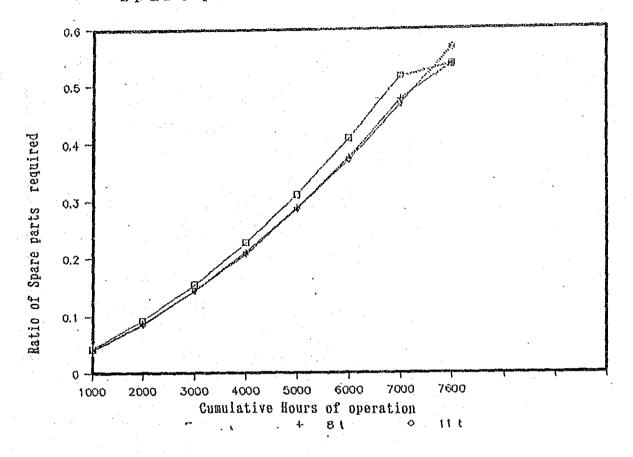


| Hours Model | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 0.0371 | 0.0820 | 0.1353 | 0.1934 | 0.2689 | 0.3496 | 0.4399 | 0.5400 |

C - 14

Truck

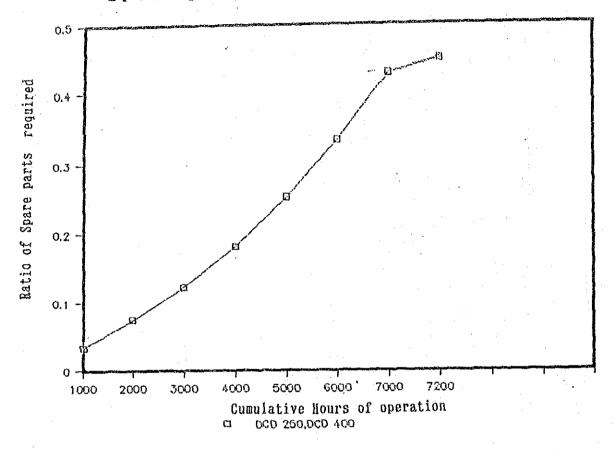
Spare parts cost for repair



| _ | · . | | | | | | | | | | ı |
|---|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| | Hours Model | 1000 | 2000 | 3000 | 1000 | 5000 | 6000 | 7000 | 7200 | 7600 | |
| | - | 0.0420 | 0.0930 | 0.1550 | 0.2280 | 0.3120 | 0.4090 | 0.5170 | 0.5400 | | |
| | 8 t | 0.0396 | 0.0070 | 0.1446 | 0.2118 | 0.2092 | 0.3768 | 0.4752 | | 0.5400 | |
| | 11 t | 0.0396 | 0.0858 | 0.1452 | 0.2082 | 0.2068 | 0.3720 | 0.4662 | | 0.5700 | |

Electric Weldin Machine

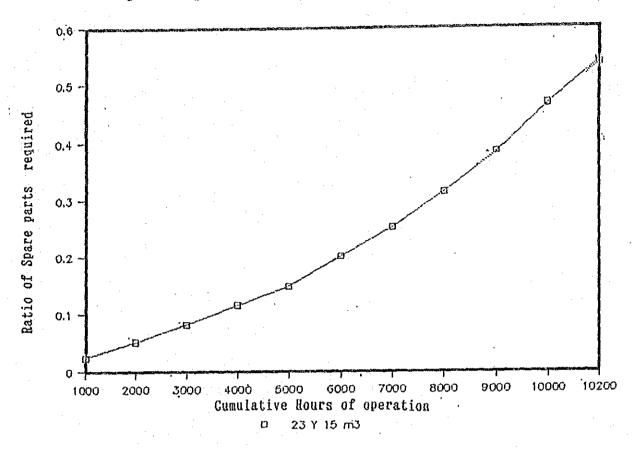
Spare parts cost for repair



| Hours Model | | 2000 | 3000 | 1000 | 5000 | 6000 | 7000 | 7200 |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| DCD 250 | 0.0333 | 0.0736 | 0.1230 | 0.1824 | 0.2520 | 0.3342 | 0.4296 | 0.4500 |
| DCD 400 · | | ,* | | | | | | |

Motorscraper

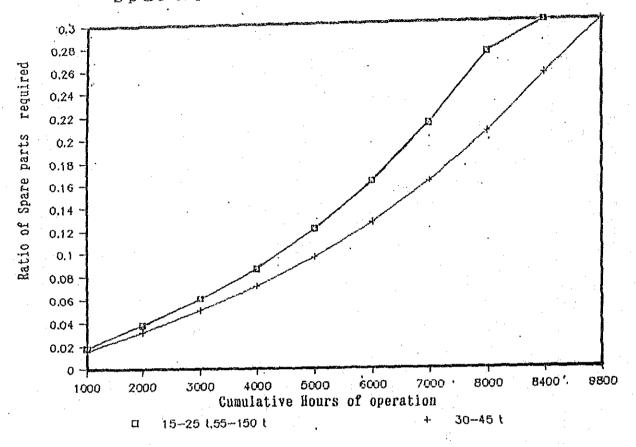
Spare parts cost for repair



| Hours Model | 1000 | 2000 | 3000 | 4,000 | 5000 | 6000 | 7000 | 8000 . | 9000 | , 10200 |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| } | 0.0250 | 0.0520 | 0.0820 | 0.1160 | 0.1490 | 0.2020 | 0.2530 | 0.3150 | 0.4670 | 0.5400 |
| 15 m3 _ | | | | | | | | | | |

Truck Crane

Spare parts cost for repair



| Hours | | - | | | | • | | | | |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 8400 | 9800 |
| <u> </u> | 0.0181 | 0.0377 | 0.0604 | 0.0063 | 0.1209 | 0.1618 | 0.2118 | 0.2725 | 0.3000 | |
| 30-45 t | 0.0155 | 0.0319 | 0.0502 | 0.0715 | 0.0965 | 0.1262 | 0.1610 | 0.2041 | 0.2532 | 0.3000 |
| 55-155 t | | 0.0377 | 0.0601 | 0.0863 | 0.1209 | | 0.2118 | 0.2725 | 0.3000 | |

