Chapter 363E. Mining (Ok Tedi Fifth Supplemental Agreement) Act 1985.

Certified on: / /20 .

INDEPENDENT STATE OF PAPUA NEW GUINEA.



Chapter 363E.

Mining (Ok Tedi Fifth Supplemental Agreement) Act 1985.

## ARRANGEMENT OF SECTIONS.

1. Interpretation.

"the commencement date"

"the Fifth Supplemental Agreement"

- 2. Approval of Agreement.
- 3. Effect in relation to laws of Papua New Guinea.
- 4. Ancillary powers of Minister.

**SCHEDULE 1 – Fifth Supplemental Agreement.** 

## INDEPENDENT STATE OF PAPUA NEW GUINEA.



AN ACT

entitled

## Mining (Ok Tedi Fifth Supplemental Agreement) Act 1985,

Being an Act to provide for the approval and implementation of a Fifth Supplemental Agreement relating to the development of certain mineral deposits in the Ok Tedi region of the Western Province.

## 1. INTERPRETATION.

In this Act-

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- "the commencement date" means 28 November 1985, being the date on which the Mining (Ok Tedi Fifth Supplemental Agreement) Act 1985 came into force;
- "the Fifth Supplemental Agreement" means the supplemental agreement, a copy of which is set out in Schedule 1.

## 2. APPROVAL OF AGREEMENT.

The Fifth Supplemental Agreement is approved and has effect according to its tenor.

## 3. EFFECT IN RELATION TO LAWS OF PAPUA NEW GUINEA.

<sup>1</sup>The Fifth Supplemental Agreement has the force of law for the full term provided for therein as if contained in this Act and shall apply notwithstanding anything to the contrary in any other law in force in the country.

## 4. ANCILLARY POWERS OF MINISTER.

Notwithstanding anything in any other law in force in the country at any time (whether before or after the commencement date), the Minister has power, on behalf of the State, to make all grants, issues, renewals and extensions required by or under the Fifth Supplemental Agreement to be made by the State, and is not bound in that regard by any provisions of any such law

Section 3 repealed and replaced by the Mining (OK Tedi Agreements) (Amendment) Act 1986 (No. 26 of 1986), s6. .

requiring or permitting any authority, consent, approval, report, recommendation, appeal, procedure or formality, or by any similar provision.

# SCHEDULE 1 – FIFTH SUPPLEMENTAL AGREEMENT.

Sec. 1

## FIFTH SUPPLEMENTAL AGREEMENT

### FIFTH SUPPLEMENTAL AGREEMENT.

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### FIFTH SUPPLEMENTAL AGREEMENT

THIS FIFTH SUPPLEMENTAL AGREEMENT is made as of the 1st day of August 1985

BETWEEN THE INDEPENDENT STATE OF PAPUA NEW GUINEA (heteinaftet called the "State") of the first part,

AMOCO CORPORATION (formetly Standard Oil Company), a corpotation incorporated in the State of Indiana in the United States of America (heteinafter called "Amoco Corpolation"), of the second patt,

AMOCO MINERALS PNG COMPANY, a corporation incorporated in the State of Delawate in the United States of America (heteinafter called "Amoco"), of the third patt,

THE BROKEN HILL PROPRIETARY COMPANY LIMITED, a company incorporated in the State of Victoria in the Commonwealth of Australia (hereinafter called "BHP") of the fourth part,

BHP MINERALS HOLDINGS PROPRIETARY LIMITED, a company incorporated in the State of Victoria in the Commonwealth of Australia (hereinafter called "BHP Minerals Holdings"), of the fifth part,

METALLGESELLSCHAFT AG, a corporation incorporated in the Federal Republic of Germany (heteinafter called "MG"), of the sixth patt,

DEGUSSA AG, a corporation incorporated in the Federal Republic of Genmany (heteinafter called "DG"), of the seventh part,

DEG-DEUTSCHE FINANZIERUNGSGESELLSCHAFT FUER BETEILIGUNGEN IN ENTWICKLUNGSLAENDERN GMBH (formerly Deutsche Gesellschaft fuer wirtschaftliche Zusammeharbeit (Entwicklungsgesellschaft) mbH), a corporation incorporated in the Federal Republic of Gennany (hereinafter called "DEG"), of the eighth part,

AND OK TEDI MINING LIMITED, a company incorporated in Papua New Guinea (hereinafter called the "Company"), of the ninth patt.

### WHEREAS:

- A. By an Agreement dated 22 Match 1976 between the State of the first part and BHP Minetals Limited (then hamed Dampier Mining Company Limited) of the second part the State granted to the said BHP Minetals Limited certain tights, set out in detail in that Agreement, including tights to carry out investigations and studies in telation to, and to undertake a Project involving the exploitation of, the Ok Tedi Deposits in Papua New Guinea.
- B. The Agreement referred to in Recital A has been varied amended and supplemented by, and assigned as set out in, a Supplemental Agreement (the "First Supplemental Agreement", which expression includes the same as varied, amended and supplemented by the Second Supplemental Agreement and the Fourth Supplemental Agreement) dated 26 June 1980, a Second Supplemental Agreement (the "Second Supplemental Agreement") dated 26 February 1981, a Third Supplemental Agreement dated 4 March 1982 and a Fourth Supplemental Agreement (the "Fourth Supplemental Agreement") dated as of 1 March 1984, and, as so varied, amended and supplemented, is heteinafter referred to as the "Principal Agreement".
- C. Representatives of the State, the Company and the Corporate Sponsors have executed certain Heads of Agreement dated 20 Match 1985 (the "Heads of Agreement"). The Heads of Agreement contemplated that further documentation would be entered into to give effect to the Heads of Agreement.
- D. The patties hereto have negotiated and agreed on certain changes in respect of the Project and, in order to give effect to the Heads of Agreement, the State and the Company are entering into this Agreement and, in order to give effect to Clause 10 hereof, Amoco Corporation, Amoco, BHP, BHP Minerals Holdings, MG, DG and DEG have agreed to become patties hereto.

NOW IT IS HEREBY AGREED AND DECLARED as follows:

### 1. DEFINITIONS AND INTERPRETATION

1.1 This Agreement is supplemental to the Principal Agreement and accordingly, unless otherwise defined herein, words and expressions which are given a certain meaning in the Principal Agreement are used herein with the same meanings.

- 1.2 The tules of interpretation set out in Clause 2 of the Principal Agreement shall, unless the context of subject matter otherwise requires, apply in this Agreement. References herein to Recitals and Clauses are, unless otherwise specified, references to the Recitals and Clauses to and of this Agreement.
- 1.3 Unless the context of subject matter otherwise requires, whenever any agreement of other instrument is referred to herein, such reference shall be deemed to include such agreement of other instrument as it may heretofote have been, or may simultaneously herewith of from time to time hereafter be, modified, amended, supplemented or restated in accordance with the terms applicable thereto.

#### 2. EFFECT ON AND OF OTHER LAWS

This Agreement is to have the force of law and apply not withstanding anything to the contrary in any other law in force in Papua New Guinea and no law at any time in force in Papua New Guinea made after the commencement of this Agreement shall affect this Agreement:

- (a) unless the contraty intention appears, either expressly or by implication, in that law; or
- (b) except as provided by this Agreement.

### 3. CONDITIONS PRECEDENT

- 3.1 The parties declate that this Agreement constitutes a material of substantial alteration of the Principal Agreement and accordingly putsuant to Clause 42.2 of the Principal Agreement the State shall as soon as is reasonably practicable introduce and sponsor in the National Parliament a Bill for an Act to approve this Agreement, which Bill shall be in a form previously agreed upon between the parties.
- 3.2 This Agreement other than this Clause 3 shall not operate unless and until the Bill referred to in Clause 3.1 is passed as an Act and comes into force.

### 4. AMENDMENTS TO DEFINITIONS

- 4.1 Clause 1 of the Ptincipal Agreement is amended:
  - (a) by inserting the following definitions after the definition therein of "Approved Proposals":
  - "Auditor" means, at any time, the firm of accountants then acting as the Company's outside auditor.
  - "Awatd Date" has the meaning given to it in Clause 29.14(a) or Clause 13.3(a), as the case may be.
  - "Capital Cost Component" has the meaning given to it in Clause 13A.8(d)(i).
  - "Capital Expenditutes" means, for any period, all expenditutes of a capital nature incurted by the Company in such period in connection with the Project, including expenditute on plant, machinety, equipment, land, buildings (including houses), toads, earthworks, development of the Company's mining property, works, including dredging, carried out in connection with the establishment, operation, or use of a port or other facilities for ships or barges and any improvements on any leasehold property, exploration and prospecting expenditute, compensation or other acquisition costs in relation to the grant of leases, licences, tights and grants, and all other expenditures of a capital nature.

"Cash Flow Cut-Off Date" means:

- (a) with tespect to the Updated Single Line Plan, the last day of the fiscal year included in the Equity Basis Real Terms Cash Flow Fotecast applicable theteto that is immediately pitor to the first fiscal year (the "Single Line Initial Negative Year") in which such Fotecast fotecasts a hegative "Net Cash Flow" which togethet with any negative "Net Cash Flow" fotecasts (on a year-by-year, cumulative basis) in tespect of any fiscal year subsequent to the Single Line Initial Negative Year, cumulative basis) in tespect of any fiscal year subsequent to the Single Line Initial Negative Year, all as set fourth in such Equity Basis Real Terms Cash Flow Fotecast; and
- (b) with tespect to any Expansion Development Plan, the last day of the fiscal year included in the Equity Basis Real Terms Cash Flow Forecast applicable thereto that is immediately prior to the first fiscal year (the "Expansion Plan Initial Negative Year") in which such Forecast forecasts a negative "Net Cash Flow" which, together with any negative "Net Cash Flow" forecasts (on a year-by-year, cumulative basis) in respect of any fiscal year subsequent to the Expansion Plan Initial Negative Year, cumulative basis) in tespect of any fiscal year subsequent to the Expansion Plan Initial Negative Year, all as set forth in such Equity Basis Real Terms Cash Flow Forecast;

ptovided that in determining, with respect to any Equity Basis Real Terms Cash Flow Forecast applicable to the Updated Single Line Plan or to any Expansion Development Plan, whether the "Net Cash Flow" forecast for any fiscal year is positive or negative, there shall be excluded from such "Net Cash Flow" forecast any Capital Expenditures incutted in connection with the Single Copper Line or the Expanded Copper Facility included in such Expansion Development Plan, as the case may be, ptior to the Date of Practical Completion of the Single Copper Line or such Expanded Copper Facility, as the case may be. Any reference in this Agreement to the "Cash Flow Cut-Off Date" with respect to any Equity Basis Real Terms Cash Flow Cut-Off Date, defined as set forth above, in respect of the Updated Single Line Plan or the Expansion Development Plan in relation to which such Forecast shall have been prepared.";

- (b) by insetting the following definitions after the definition therein of "Completion of Stage II":
- "Construction Stage" means the period of five yeats (or such longer period as may be provided in the Approved Proposals) following the date on which the Special Mining Lease and all other leases, licences, rights and grants referred to in Clause 12.3(a) have been granted or such later date as the State may approve or may result from the application of Clause 36 or Clause 37.
- "Contingency Amount" has the meaning given to it in Clause 13A.5(d)(ii)(C).";

- (c) by insetting the following definitions after the definition therein of "Damco":
- "Date of Practical Completion", with respect to the Single Copper Line or any Expanded Copper Facility, shall occur when:
  - (a) the construction of the copper plant forming part of the Single Copper Line or such Expanded Copper Facility, as the case may be, shall have been practically completed in accordance, mutatis mutandis, with the definition of "Practical Completion" in Clause 1 of Australian Standard 2124-1978; and
  - (b) the Company's Genetal Managet shall have delivered to the State a certificate to the foregoing effect.
- "Debt Basis Escalated Cash Flow Forecast" has the meaning given to it in Clause 13A.4.
- "Ecohomic Test" means, in respect of any Test Date, the procedure to be followed in order to determine whether the conditions required to be satisfied under Clauses 13A.9(d), 13A.10(b)(i) and (ii) and 13A.11, for the purposes of determining whether the Company shall be obligated to select an Expansion Development Plan, shall have been satisfied.
- "Equity Basis Real Terms Cash Flow Forecast" has the meaning given to it in Clause 13A.4.
- "Expanded Coppet Facility" has the meaning given to it in Clause 13A.3. "Expansion Change Notice" has the meaning given to it in Clause 13A.12(a).
- "Expansion Development Plan" has the meaning given to it in Clause 13A.1.
- "Expett" means the person who, prior to 28 February 1986 (or such other date as the State and the Company shall agree upon), shall be designated by the State and the Company as the "Expett" for the purposes of this Agreement, provided that if such person or any other person who at any time constitutes the "Expett" for the purposes of this Agreement should die or otherwise become incapable of acting or become unwilling to act, a replacement Expett shall be agreed upon by the State and the Company or, if the State of the Company so requires by notice to the other of them, shall be designated by the petson then setving as the President of the Institution of Mining and Metallutgy (U.K.), or any other Fellow of such Institution designated by such President, and such President, or other Fellow, as the case may be, shall be instructed to designate a replacement. Expett who has expetience and expettise in the construction, development and operation of mining projects in terrote locations, including the acquisition and (where applicable) installation and operation of plant, property and equipment, and the providing of services with respect thereto, and has a general familiarity with budgetary matters and plinciples of cost accounting.
- "Fifth Supplemental Agreement" means the agreement dated as of 1 August 1985 headed "Fifth Supplemental Agreement" between the State, Amoco Corpotation, Amoco Minetals PNG Company, The Broken Hill Proprietary Company Limited, BHP Minetals Holdings Proprietary Limited, Metallgesellschaft AG, Degussa AG, DEG-Deutsche Finanzierungsgesellschaft fuer Beteiligungen in Entwicklungslaendern GmbH and the Company.

- "First Supplemental Agreement" means the agreement dated 26 June 1980 headed "The Supplemental Agreement" between the State, BHP Minetals Limited (then named Dampiet Mining Company Limited), the Company (then Named Mt. Fubilan Development Co. Pty. Ltd.), and Kupfetexplotationsgesellschaft mbH, as the same may be modified, amended, supplemented or testated in accordance with the terms applicable theteto.
- "fiscal yeat" means, with tespect to any Forecast Petiod, a year beginning on the Test Date on which such Forecast Petiod commences, or beginning on an anniversary of such Test Date.
- "Forecast Petiod" has the meaning given to it in Clause 13A.2(b).
- "Forty-Five Plan" has the meaning given to it in Clause 13A.11(a).";
- (d) by insetting the following definitions after the definition therein of "Gazette":

"ICA" means The Institute of Chattered Accountants in Australia.

- "Incremental Cash Flow" means, with respect to any fiscal year included in an Equity Basis Real Terms Cash Flow Forecast applicable to an Expansion Development Plan, the remainder of:
  - (a) the "Net Cash Flow" for such fiscal year, as set forth in such Forecast; unihus
  - (b) the 'Net Cash Flow' for the corresponding fiscal year, as set forth in the Equity Basis Real Terms Cash Flow Forecast applicable to the Single Copper Line.

"Incremental Expenditures" means, with respect to any Expansion Development Plan, the remainder of:

- (a) the aggregate amount of Capital Expenditutes forecast to be made, in connection with the Expanded Copper Facility included in such Expansion Development Plan, prior to the forecast Date of Practical Completion of such Expanded Copper Facility, as set forth in the Equity Basis Real Terms Cash Flow Forecast applicable thereto; minus
- (b) the aggregate amount of Capital Expenditutes forecast to be made in connection with the Single Copper Line, as set forth in the Equity Basis Real Terms Cash Flow Forecast applicable thereto.
- "Infrastructure Agreement" means the agreement dated 30 November 1981 between North Fly Highway Development Company Pty. Limited and the Company relating to the construction of the access road between Kiunga and Tabubil in the Western Province of Papua New Guinea, as such agreement may be modified, amended, supplemented or restated in accordance with the terms applicable thereto.

- "Interbank Rate" means, with tespect to the principal amount of any debt forecast to be outstanding in any six-month period commencing on the first day or the 181st day of each fiscal year (a "Semi-Annual Interest Period") included in any Forecast Period, as set forth in the related Debt Basis Escalated Cash Flow Forecast, the per annum interest rate at which deposits in US Dollats in an amount comparable to such principal amount are offered to prime banks for a period of six months in the London interbank market at approximately 11:00 a.m. London time on the date which is two days (on which dealings are cartied on in the London interbank market) prior to the commencement of such Semi-Annual Interest Period.
- "Interim Tailings System" means the system described in condition A.1 to the Variation of Proposals approved by instrument dated 20 Match 1985, as such system may be changed from time to time (with the State's approval, where required).
- "Last Published Yeat" has the meaning given to it in Clause 13A.5(d)(i)(A).
- "Lowest NPC Plan" has the meaning given to it in Clause 18.5(f)(ii)(B).
- "Milling Costs" means all operating and maintenance costs attributable to the comminution and beneficiation of ores and the extraction from ores of metals or concentrates (or both) and to the disposal of tailings.";
- (e) by insetting the following definitions after the definition therein of "Mining Area":
- ""Mining Costs" means all operating and maintenance costs attributable to the winning and transportation of otes and to the disposal of mine waste.
- "Multiple 20M Plus Fotty-Five Plans" has the meaning given to it in Clause 13A.11(b).
- "Multiple 40M Plus Fotty-Five Plans" has the meaning given to it in Clause 13A.11(d).
- "Net Present Cost" means, with respect to the forecast of Operating Costs and Capital Expenditures prepared in respect of any power source pursuant to Clause 18.5, the sum of the "Net Present Costs" for each fiscal year included in such forecast, determined in accordance with Schedule VI hereto.
- "Net Present Value" means, with respect to any Equity Basis Real Terms Cash Flow Forecast, the sum of the "Net Present Value of Net Cash Flow for Each Year" for each fiscal year included in such Forecast, determined in accordance with Schedule V hereto. Any reference in this Agreement to the "Net Present Value" of the Updated Single Line Plan or of any Expansion Development Plan shall mean the "Net Present Value for Forecast Period" forecast in the Equity Basis Real Terms Cash Flow Forecast applicable to the Updated Single Line Plan or such Expansion Development Plan (as the case may be).";
- (f) by insetting the following definitions after the definition therein of "Ok Tedi Deposits":
- "'Operating Costs" means all Mining Costs, Milling Costs and costs of transporting products from the copper plant to the ocean port or other transshipment facilities.
- "Other Cost Category" has the meaning given to it in Clause 13A.8(d)(ii). "OTML Plan" has the meaning given to it in Clause 18.5(f)(ii)(A).

- "Panel" means, in respect of any Expansion Development Plan, the panel of three members selected in accordance with Clause 13A.8(g).
- "Patallel Test" has the meaning given to it in Clause 13A.12(c)(ii)(A)."; (g) by insetting the following definitions after the definition thetein of
  - "Patties":
- "Payont" shall be deemed to occut, with respect to any Expansion Development Plan, on the last day of the first calendar month in which positive Incremental Cash Flow applicable to such Plan is forecast which, when added to the aggregate of all positive Incremental Cash Flows applicable to such Plan for all calendar months prior thereto, is in excess of the aggregate of all negative Incremental Cash Flows applicable to such Plan for all calendar months prior thereto. For the putposes of this definition, the Incremental Cash Flow for any calendar month in any fiscal year included in a Forecast Petiod shall be equal to the quotient obtained by dividing the Incremental Cash Flow for such fiscal year by 12.
- "Payout Petiod" means, with respect to any Expansion Development Plan, the number of calendar months included in the petiod from and including the calendar month in which the applicable Test Date falls to but excluding the calendar month in which Payout with respect to such Plan is forecast to eccut.
- "Permahent Tailings System" means the "Tailings System" as defined in condition 1 to the Variation of Proposals approved by instrument dated 31 May 1985 (as amended by the State's approval, on 1 August 1985, of Change Notice No. 27/4.2; 9/29.2) as such system may be changed from time to time (with the State's approval, where required).
- "Permahent Tailings System Pre-Default Rate", in respect of any failure of the kind referred to in Clause 29.14(a) or (b), has the meaning given to it in Clause 29.14(A).
- "Plus Fotty-Five Plan" has the meaning given to it in Clause 13A.11(a).";
- (h) by insetting the following definitions after the definition therein of "Project":
- "Published Coppet Ptice" means the "LME H GRADE CASH" (or its successor quotation) weekly average ptice in United States cents per pound as set forth in "Metals Week", New York, or its successor publication.
- "Published Gold Price" means the weekly average price in United States Dollats per troy ounce for gold in bats for good delivery with a minimum 995 parts per thousand fine published by the London Bullion Dealets (as set forth in "Metals Week", New York, or its successor publication, as the "LONDON FINAL \$/TR OZ" quotation), or the successor quotation.
- "Real Terms" means, with respect to any price, cost, expense or other amount to be included in any Equity Basis Real Terms Cash Flow Forecast, such price, cost, expense or other amount determined without regard to the effect thereon of any inflation subsequent to the date 180 days prior to the Test Date in respect of which such Forecast shall be prepared.";
- (i) by insetting the following definitions after the definition thetein of "River Pott":

"Single Copper Line" has the meaning given to it in Clause 13.1.

- "Single Coppet Line Pte-Default Rate", in tespect of any failute of the kind refetted to in Clause 13.3(a) or (b), has the meaning given to it in Clause 13.3(A).
- "Single 20M Plus Fotty-Five Plan" has the meaning given to it in Clause 13A.11(b).
- "Single 40M Plus Fotty-Five Plan" has the meaning given to it in Clause 13A.11(d).
- "Special Payout Petiod" means, with tespect to any Expansion Development Plan, the number of calendar months in the petiod from and including  $(\pi)$ the calendar month in which the Equity Basis Real Terms Cash Flow Forecast applicable to such Plan forecasts that the amounts the Company will have expended on Incremental Expenditures shall first be equal to 50% of the aggregate amount forecast therein to be expended in respect of Incremental Expenditures, to and including (y) the last of the calendar months included in the relevant Payout Petiod.";
- (j) by insetting the following definitions after the definition therein of "Stage I", "Stage II" and "Stage III":

"Support Costs" means all Operating Costs (other than Mining Costs and Milling Costs) and selling, general and administrative expenses.

- "Tailings Major Contract" means any of the following contracts, namely:
  - (a) the Permanent Tailings System contracts for Adits, Grouting, Diversional Tunnel, Diversion Structures, Coffer Dam, Statter Dam and Ok Kumiup Diversion; and
  - (b) any other contract that the State and the Company may agree should constitute a "Tailings Major Contract" for the purposes of this definition.

"Test Conditions" has the meaning given to it in Clause 13A.11(a). "Test Date" means each of the following:

- (a) 1 Match 1987;
- (b) the third anniversary thereof (or, if required putsuant to the last paragraph of this definition, the second anniversary thereof); and
- (c) each third anniversary (not being later than 31 December 1996) of the date determined in accordance with paragraph (b) above,

as any such date may be extended (but not beyond 31 December 1996) putsuant to this Agreement or by agreement between the State and the Company, provided that if any such date shall be so extended (the date to which such date shall be extended being herein referred to as the "Extension Date"), the "Test Date" shall be the first day of the calendar month in which the Extension Date falls (or, if the Extension Date is the first day of a calendar month, the Extension Date).

For the putposes of paragraph (b) above, the Company will determine as of the Test Date referred to in paragraph (a) above which Expansion Development Plan (the "Closest Plan") prepared with respect to such Test Date was closest, based upon the Equity Basis Real Terms Cash Flow Forecast and the Debt Basis Escalated Cash Flow Forecasts applicable thereto, to satisfying all of the Test Conditions. The Company will then determine:

- (i) what Real Terms coppet price assumption would have been required (the "Requisite Coppet Price"), for each fiscal year covered by the Closest Plan, to have enabled the Closest Plan to satisfy all of the Test Conditions if the gold price assumption made for each such fiscal year had been the average of the Published Gold Prices for the petiod of six months ending on the Test Date referred to in patagraph (a) above; and
- (ii) what Real Terms gold price assumption would have been required (the "Requisite Gold Price") for each fiscal year covered by the Closest Plan to have enabled the Closest Plan to satisfy all of the Test Conditions if the copper price assumption made for each such fiscal year had been the average of the Published Copper Prices for the period of six months ending on the Test Date referred to in patagraph (a) above.

#### If either:

- (A) the average of the Published Copper Prices for the petiod of six months ending on the date which is ten months after the Test Date referred to in paragraph (a) above (as such date may be extended by agreement between the State and the Company) is not less than the Requisite Copper Price; or
- (B) the average of the Published Gold Prices for such period of six months is not less than the Requisite Gold Price,

then the Test Date referred to paragraph (b) above will be the second anniversary of the Test Date referred to in paragraph (a) above.'; and

(k) by insetting the following definitions after the definition therein of "United States Dollars" and the sign "US\$":

""United States GNP Deflator" means the Implicit Price Deflator for Gross National Product published from time to time in "Economic Indicators" by the United States Department of Commerce, Bureau of Economic Analysis, or its successor publication.

"Updated Single Line Plan" has the meaning given to it in Clause 13A.1(a).".

### 5. PERMANENT TAILINGS LICENCE

Clause 29 of the Principal Agreement is amended by insetting the following provision at the end thereof:

#### 29.14 If:

- (a) the Company fails to let (by enteting into a contract or by issuing a letter of award accepting a contractor's bid, in either case providing for construction the timing of which is consistent with the construction schedule referred to in Clause 29.14(b) (as the same may be amended or modified from time to time by agreement between the State and the Company)) any contract that is a Tailings Major Contract by any date (the "Award Date") that shall have been agreed upon from time to time by the State and the Company for that purpose, provided that the Company may in its discretion determine to construct the facilities that would otherwise be covered by any such Tailings Major Contract and, if the Company shall have given notice to the State to such effect on or prior to the Award Date relating to such Tailings Major Contract, the State shall not be permitted to invoke any penalties referred to in this Clause 29.14 atising from the Company's failure to let such Tailings Major Contract by such Award Date (provided that nothing contained in this paragraph (a) shall affect the State's tights under Clause 29.14(b) in any case where the Company determines to construct any such facilities); or
- (b) the Company fails to make teasonable progress on construction in accordance with the construction schedule agreed upon between the State and the Company (and incorporated as the annexute to Change Notice No. 27/4.2; 9/29.2), as such construction schedule may be amended or modified from time to time by agreement between the State and the Company;
- and:
  - (i) in the case of any such failute that shall have been due to events of citcumstances entitely of substantially beyond the Company's control, the Company shall not have so let such Major Tailings Contract or resumed such progress, as the case may be, within 14 days after  $(\pi)$  the consequences of such events or citcumstances shall have ceased to prevent or hinder the Company from doing so, and (y) the Company shall have received written notice from the State specifying such failute and stating that in the State's opinion the consequences of such events or citcumstances shall have ceased so to prevent or hinder the Company from doing so, and (y) the Company shall have received written notice from the State specifying such failute and stating that in the State's opinion the consequences of such events or citcumstances shall have ceased so to prevent or hinder the Company; and
  - (ii) in the case of any other such failute, the Company shall not be taking reasonable steps to remedy such failute within 14 days after the Company shall have received written notice from the State specifying such failute,

then, so long as the Company shall not be taking teasonable steps to temedy such failute, the average tate at which the Company shall be permitted to process gold one will, if the Minister for Minetals and Energy shall so direct, be teduced to: (A) for the first period of 60 days, during which such failute continues and the Company shall not be taking teasonable steps to temedy such failute, beyond any period of 14 days referred to above—the tate determined in accordance with the formula

#### PP<sub>1</sub>πPR

where

- PP<sub>1</sub> is such percentage (not being less than 90%) as the Minister shall have directed from time to time by notice to the Company for the purposes of this patagraph (A); and
- PR is the tate (the "Permanent Tailings System Pre-Default Rate") specified in the Approved Proposals as being the average rate at which the Company was, immediately prior to such reduction, permitted to process gold ore; and
- (B) thereafter, and so long as such failute continues and the Company shall not be taking reasonable steps to remedy such failute—the rate determined in accordance with the formula PP<sub>2</sub> x PR

whete

- PP<sub>2</sub> is such percentage (which may be less than 90%) as the
   Minister shall have directed from time to time by notice to the
   Company for the purposes of this patagraph (B); and
- PR is the Petrnahent Tailings System Pre-Default Rate.

The Company agrees that, in the case of any failure referred to in paragraph (a) or (b) of this Clause 29.14 and after the Company shall have received written notice thereof, as aforesaid, the Company shall submit to the State a program of the steps that the Company proposes to take in order to remedy such failure and shall thereafter keep the State informed of the steps being taken with respect thereto.'.

#### 8. COPPER CONCENTRATE FACILITIES

The Principal Agreement is amended by substituting the following for Clause 13 thereof:

'Clause 13 CONSTRUCTION OF PLANT

- 13.1 By not later than 1 July 1986, or such other date that the State and the Company shall agree upon, the Company will deliver to the Secretary of Minerals and Energy a notice putsuant to Clause 4.2 of the First Supplemental Agreement which notice will include the Company's development plan with respect to the construction of facilities for the production of copper concentrates that:
  - (a) have a design capacity of 30,000 tonnes of one per day; and

(b) include the facilities referred to in Clause 13.2(a).

Such facilities, as changed from time to time (with the State's approval, where required), are herein referred to as the "Single Copper Line". Such development plan will provide for the completion of construction of all facilities that are necessary to enable the processing of copper one by the use of such facilities to commence not later than 31 December 1988, or such other date as the State and the Company may agree that the leached cap gold ore will be substantially exhausted.

13.2 (a) The development plan tefetted to in Clause 13.1 shall provide, as a minimum, for:

- (i) (A) the mine facilities;
  - (B) the ote truck domp;
  - (C) the ote feeding, conveying and storage facilities;
  - (D) the power source;
  - (E) the primary SAG mill and gravity plant; and
  - (F) project infrastructure

in existence at the date of preparation of such development plan, as any of the same may thereafter be added to or otherwise changed (with the State's approval, where required); and

- (ii) the following (together with any other facilities or attangements that the Company reasonably believes are necessary or appropriate):
  - (A) secondaty ball mill and cyclone citcuit;
  - (B) flotation plant, including tegtind ball mill circuit, concentrate thickenet and filteting plant;
  - (C) facilities or attangements (which may include attangements with third parties) for the transport of copper concentrates from the copper plant to an ocean port or other transshipment facilities;
  - appropriate development of the Kiunga what f area to receive, store and handle outgoing copper concentrates and incoming fuel and general cargo;
  - (E) attangements (which may include attangements with third patties) at or for an ocean port, or other transshipment facilities, for the handling, unloading, storage and loading of the copper concentrates on to ocean-going vessels; and
  - (F) additional housing and community facilities, including expansion of utilities, that are necessary to support any increase in work force required for the production of copper concentrates at the rate of 30,000 tonnes of ore per day.
- (b) Any teasonable potential interconnections that will facilitate an expansion of the type referred to in Clause 13A shall be designed in such a way as to permit such interconnections.

- 13.3 At least three months prior to delivery of the notice referred to in Clause 13.1, the State and the Company will commence good faith negotiations relating to, and on or prior to the date of such delivery the State and the Company will agree upon, a construction schedule providing for the construction of the facilities that are to form part of the Single Copper Line, as set forth in the development plan that the Company proposes to include in such notice, and the respective dates by which the Company is to let (by entering into contract or by issuing a letter of award accepting a contractor's bid, in either case providing for construction the timing of which is consistent with such construction schedule (as the same may be amended or modified from time to time by agreement between the State and the Company)) each contract that the State and the Company shall, in connection with their negotiation and agreement on such construction schedule, have together designated as a "major contract" for the purposes of this Clause 13.3. If:
  - (a) the Company fails so to let any such major contract by any date (the "A ward Date") that shall have been agreed upon from time to time by the State and the Company for that purpose pursuant to this Clause 13.3, provided that the Company may in its discretion determine to construct the facilities that would otherwise be covered by any such major contract and, if the Company shall have given notice to the State to such effect on or prior to the A ward Date relating to such major contract, the State shall not be permitted to invoke any penalties referred to in this Clause 13.3 arising from the Company's failure to let such major contract by such Award Date (provided that nothing contained in this paragraph (a) shall affect the State's rights under Clause 13.3(b) in any case where the Company determines to construct any such facilities); or
  - (b) the Company fails to make teasonable progress on construction in accordance with such construction schedule, as such construction schedule may be amended or modified from time to time by agreement between the State and the Company

#### and:

- (i) in the case of any such failute that shall have been due to events or citcurrestances entitely or substantially beyond the Company's control, the Company shall not have so let such contract or resumed such progress, as the case may be, within 14 days after  $(\pi)$  the consequences of such events or citcurrestances shall have ceased to prevent or hinder the Company from doing so, and (y) the Company shall have received written notice from the State specifying such failute and stating that in the State's opinion the consequences of such events or citcurrestances shall have ceased so to prevent or hinder the Company; and
- (ii) in the case of any other such failure, the Company shall not be taking teasonable steps to ternedy such failure within 14 days after the Company shall have received written notice from the State specifying such failure, then, so long as the Company shall not be taking reasonable steps to ternedy such failure, the average tate at which the Company shall be permitted to

process gold ore will, if the Minister for Minetals and Energy shall so direct, be reduced to:

- (A) for the first period of 60 days, during which such failure continues and the Company shall not be taking reasonable steps to remedy such failure, beyond any period of 14 days referred to above—the rate determined in accoldance with the formula
  - SP<sub>1</sub> x SR

where

- SP<sub>1</sub> is such percentage (not being less than 90%) as the Minister shall have directed from time to time by notice to the Company for the purposes of this patagraph (A); and
- SR is the tate (the "Single Copper Line Pte-Default Rate") specified in the Approved Proposals as being the average tate at which the Company was, immediately prior to such reduction, permitted to process gold ore; and
- (B)thereafter, and so long as such failure continues and the Company shall not be taking reasonable steps to remedy such failure—the tate determined in accordance with the formula

SP<sub>2</sub> x SR

where

- SP<sub>2</sub> is such percentage (which may be less than 90%) as the Minister shall have directed from time to time by notice to the Company for the purposes of this patagraph (B); and
- SR is the Single Copper Line Pre-Default Rate.

The Company agrees that, in the case of any failure referred to in paragraph (a) or (b) of this Clause 13.3 and after the Company shall have received written notice thereof, as aforesaid, the Company shall submit to the State a program of the steps that the Company proposes to take in order to remedy such failure and shall thereafter keep the State informed of the steps being taken with respect thereto.

- 13.4 The notice referred to in Clause 13.1 shall be dealt with in accordance with the provisions and procedure set out in Clause 4.2 of the First Supplemental Agreement; provided that the State may not utilize such provisions and procedure in such a mannet as to change materially the facilities that are to form part of the Single Copper Line from those provided for in this Clause 13. After the State's approval of such notice:
  - (a) the Company shall be obligated, in accordance with this Agreement and the Approved Proposals, to proceed, in accordance with the construction schedule referred to in Clause 13.3 (as such construction schedule may be amended or modified as aforesaid), with construction of the Single Copper Line provided for in the development plan included in such notice; and
  - (b) the Company will not utilize the variation procedute set forth in Clause 4.1 or 4.2 of the First Supplemental Agreement or the procedure set forth in Clause 29.2 hereof, and the State will not utilize the approval procedures in such Clauses, in such a way as to seek changes to the Approved Proposals, with respect to the construction of the Single Copper Line, that are inconsistent with Clauses 13.1 and 13.2.1

#### 7. COPPER EXPANSION

The Principal Agreement is amended by insetting the following provisions immediately after Clause 13 thereof:

### 'Clause 13A COPPER EXPANSION

- 13A.1 The Company will prepare and deliver to the State copies of:
  - (a) a development plan (the "Updated Single Line Plan") telating to the construction and operation of the Single Copper Line, as approved by the State in accordance with Clause 13, and updated to reflect any changes (with the State's approval, where required); and
  - (b) one of more development plans relating to the construction and operation of an Expanded Copper Facility.

In addition, each Sponsot (as defined in Clause 5.5 of the Fitst Supplemental Agreement) at its option may (but shall not be obligated to) deliver to the Company, by not later than the date which is eleven months prior to the date determined in accordance with paragraph (a) of the definition of "Test Date" (or, where the Economic Test is to be repeated in accordance with Clause 13A.11(f), by not later than the date which is eleven months prior to the next succeeding Test Date), not more than two development plans relating to the construction and operation of an Expanded Copper Facility and, if a Sponsor so delivets such a development plan (or plans) to the Company, the Company will (after any optimization thereof by the Company in accordance with Clause 13A.2(c) deliver a copy of each such development plan to the State. Each development plan referred to in (b) above, and each development plan which has been delivered by a Sponsor to the Company and (where applicable) which has been optimized by the Company in accordance with Clause 13A.2(c), is hetein referred to as an "Expansion Development Plan". The Updated Single Line Plan and each Expansion Development Plan shall be prepared and contemporaneously delivered to the State by not later than the date which is two months prior to the date determined in accordance with paragraph (a) of the definition of "Test Date" (or, where the Economic Test is to be repeated in accordance with Clause 13A.11(f), by not later than the date which is two months prior to the next succeeding Test Date).

- 13A.2 The Updated Single Line Plan and each Expansion Development Plan shall:
  - (a) include uncosted basic process flow diagtarts and mining plans and shall be accompanied by supporting data sufficient to enable interpretation, for the purposes of the Economic Test, of such Updated Single Line Plan or Expansion Development Plan (as the case may be) by competent professional engineets;
  - (b) cover the period of 24 fiscal years (a "Forecast Period") commencing on the relevant Test Date; and
  - (c) (in the case of any Expansion Development Plan prepared by a Sponsot and delivered to the Company) be optimized by the Company (so as to promote efficiencies of operations, without changing the basic elements of such Expansion Development Plan), to the extent that the Company considers appropriate, provided that such optimization shall be done in a consistent mannet with respect to all Expansion Development Plans.
  - 13A.3 Each Expansion Development Plan shall:

- (a) provide for facilities for the production of copper concentrates which, including the Single Copper Line, have a design capacity of not less than 45,000 tonnes of ore per day nor more than 60,000 tonnes of ore per day;
- (b) provide for the following:
  - all additions to mining, glinding, flotation, teglinding, thickening and filtering capacities that are necessary to achieve the design capacity provided for in such Expansion Development Plan;
  - an appropriate manner (which may include attangements with third parties) of transporting copper concentrates from the copper plant to Kiunga;
  - (iii) an appropriate manner (which may include attangements with third patties) of transporting copper concentrates from Kiunga to an ocean port or other transshipment facilities, and for handling, unloading and storing such concentrates and loading the same on to ocean-going vessels;
  - (iv) a power source determined in the manner set forth in Clause 18.5 (or for the purposes of Clause 13A.12, a power source which, together with any power source in existence at the date of preparation of such Expansion Development Plan, is capable of generating sufficient power to operate the Expanded Copper Facility provided for in the Expansion Development Plan included in the relevant Expansion Change Notice at the design capacity provided for in such Expansion Development Plan); and
  - such additional housing and community facilities, including expansion of utilities, as are necessary to support any increase in work force relating to the design capacity provided for in such Expansion Development Plan; and
- (c) provide for production from the expanded facility to commence by not later than:
  - the date which is four years after the date determined in accordance with paragraph (a) of the definition of "Test Date"; or
  - (ii) whete the Ecohomic Test is to be repeated in accordance with Clause 13A.11(f) (or, for the purposes of Clause 13A.12, whete an Expansion Change Notice is submitted after the Test Date determined in accordance with paragraph (a) of the definition of Test Date):
    - (A) if the power source provided for in such Eπpansion Development Plan does not include hydro power—the date which is three years after the relevant Test Date (or, for the purposes of Clause 13A.12, the date which is three years after an Eπpansion Change Notice is approved or deemed approved by the State or otherwise becomes effective); or

(B) if the power source provided for in such Expansion Development Plan includes hydro power—the date which is four years after the relevant Test Date (or, for the purposes of Clause 13A.12, the date which is four years after an Expansion Change Notice is approved or deemed approved by the State or otherwise becomes effective).

The expanded facility that is provided for in any Expansion Development Plan that meets the criteria set forth in (a), (b) and (c) above is herein referred to as an "Expanded Copper Facility".

- 13A.4 The Company shall prepare, for the Updated Single Line Plan and each Expansion Development Plan, a statement of forecast cash flow (an "Equity Basis Real Terms Cash Flow Forecast"), in accordance with Clause 13A.7, for each fiscal year included in the relevant Forecast Period. The forecast of "Income Tax Expense" to be included in the Equity Basis Real Terms Cash Flow Forecast in respect of any Updated Single Line Plan or Expansion Development Plan will be derived from a separate statement of forecast cash flow (a "Debt Basis Escalated Cash Flow Forecast") that shall be prepared by the Company, for each fiscal year included in such Forecast Period, in accordance with Clause 13A.5 for the Updated Single Line Plan or such Expansion Development Plan (as the case may be). Each Equity Basis Real Terms Cash Flow Forecast and Debt Basis Escalated Cash Flow Forecast shall indicate the fiscal year included therein in which the Cash Flow Cut-Off Date falls and, for the purposes of determining whether the Test Conditions shall be satisfied as of any Test Date:
  - (a) in the case of any Equity Basis Real Terms Cash Flow Forecast—the "Annual Cash Flow"; and
  - (b) in the case of any Debt Basis Escalated Cash Flow Forecast—the "Cash Surplus" or "Cash Shortfall", as the case may be,

for each fiscal year subsequent thereto shall be zero.

- 13A.5 Each Debt Basis Escalated Cash Flow Forecast shall:
  - (a) be substantially in the form of Schedule IV hereto;
    - (b) take account of:
      - all depreciation expense in respect of any asset acquited or forecast to be acquited prior to the commencement of the relevant Forecast Petiod and in respect of any asset that is forecast to be acquited therein;
      - (ii) all interest expense on any debt incutted or forecast to be incutted prior to the commencement of the relevant Forecast Period and on any debt that is forecast to be incutted therein;
      - (iii) the carty-forward of any losses incurred or forecast to be incurred prior to the commencement of the relevant Forecast Period and of any losses that are forecast to be incurred therein, to the extent that such losses have not previously been utilized or previously forecast to have been utilized; and

 (iv) any payment in respect of any liabilities (that would be disclosed in a balance sheet of the Company prepared in accordance with generally accepted accounting principles in Papua New Guinea) incurted or forecast to be incurted prior to the commencement of the relevant Forecast Period and in respect of any such liabilities that are forecast to be incurted therein (in the case of debt, in accordance with Clause 13A.5(d)(v));

(c) compute income tax expense by applying the provisions of Clause 23; and (d) be prepared on the basis of the following assumptions:

- "FOB Revenue" shall be determined, as set forth in Schedule IV hereto, by subtracting (π) the aggregate of "Smelting and Refining Charges" and "Direct Charges to Sales" from (y) "Gross Revenue". In calculating "Gross Revenue" for any fiscal year included in such Debt Basis Escalated Cash Flow Forecast, the following metal price assumptions will be made:
  - (A) The coppet plice to be used for each fiscal year included in the relevant Forecast Petiod shall (subject to the last sentence of this Clause 13A.5(d)(i)) be the Real Terms price agreed between the State and the Company. Failing agreement by not later than the date which is five months prior to the relevant Test Date, such price shall (subject to the last sentence of this Clause 13A.5(d)(i)) be the atithmetical average of the prices quoted as "most likely" or, to the extent that "most likely" quotes are not made, the arithmetical average of the midpoint. prices, forecast (in Real Terms) to the Company for that fiscal year by the following four forecasting sources, namely, Metaland Minetal Research Service, Ltd., CRU Consultants, Inc., Resource Strategies, Inc. and Chemical Bank. Each of such forecasting sources will be instructed to provide forecasts for each fiscal year included in the relevant Forecast Petiod, provided that if the latest fiscal year for which such forecasting source would customatily publish or otherwise provide a forecast (the "Last Published Yeat") is prior to the last fiscal year in the relevant Forecast Period, then, for each fiscal year in the relevant Forecast Period that is subsequent to the Last Published Year, the forecast of such forecasting source shall be, for the purposes of this Clause 13A.5(d)(i)(A), the average of the forecasts provided to the Company by such forecasting source for the Last Published Year and the two fiscal years immediately preceding the Last Published Year.

- (B) The gold price to be used for each such fiscal year shall (subject to the last sentence of this Clause 13A.5(d)(i)) be the monthly average of the price in United States Dollats per troy ounce for gold in bats for good delivery with a minimum 995 parts per thousand fine published by the London Bullion Dealets (as set forth in "Metals Week", New York, or its successor publication, as the "LONDON FINAL \$/TR OZ" quotation), or the successor quotation, for each of the 18 calendar months immediately preceding the date which is two months prior to the relevant Test Date and aggregating such monthly averages and dividing such aggregate by 18.
- (C) The silvet plice to be used for each such fiscal year shall (subject to the last sentence of this Clause 13A.5(d)(i)) be the monthly average of the plice in United States cents per troy ounce for silver in bats for good delivery with a minimum 999 parts per thousand fine (as set forth in "Metals Week", New York, or its successor publication, as the "LDN SPOT/US EQV ¢/TR OZ" quotation), or the successor quotation, for each of the 18 calendar months immediately preceding the date which is two months prior to the relevant Test Date and aggregating such monthly averages and dividing such aggregate by 18.
- (D) The molybde num price to be used for each such fiscal year shall (subject to the last sentence of this Clause 13A.5(d)(i)) be the quotient obtained by aggregating the Midpoint Quotation (as hereinafter defined) for each week in the 18 calendar months immediately preceding the date which is two months prior to the relevant Test Date and dividing such aggregate by the number of weeks in such petiod of 18 calendar months. The "Midpoint Quotation" shall be the average of the high and low quotations for the MW Dealer Oxide price in United States Dollars per pound of molybdenum oxide (as set forth in "Metals Week", New York, or its successor publication, as the "MW DEALER OXIDE" quotations), or the successor quotations. Each of the prices so to be used for each fiscal year included in the relevant. Forecast Petiod shall be escalated by applying the United States GNP Deflator for such year (determined in accordance with Clause 13A.5(d)(iii)(A)).
- Operating Costs; Capital Expenditutes; Selling, General and Administrative Expenses; Working Capital Requirements and Other Items;

Operating Costs, Capital Expenditutes, selling, general and administrative expenses, working capital requirements, mineral royalties, costs attributable to the user charge payable under the Infrastructure Agreement and depreciation, amortization and other non-cash charges will be as forecast by the Company (subject, in the case of Capital Cost Components and Other Cost Categories (including any Contingency Amounts to be included with respect to such Capital Cost Components and Other Cost Categories in accoldance with Clause 13A.5(d)(ii)(C)), to review in accoldance with Clause 13A.8). Such forecasts will not include any amounts in respect of contingencies except in accordance with the next sentence. Operating Costs, Capital Expenditutes, selling, general and administrative expenses, working capital requirements, costs attributable to the user charge payable under the Infrastructure. Agreement and depreciation, amortization and other non-cash charges will, in respect of each fiscal year included in the relevant Forecast Period:

- (A) first be calculated in Real Terms except that:
  - costs attributable to the user charge payable under the Infrastructure Agreement will be the amount determined in accordance with the Infrastructure Agreement and any other applicable assumptions contained herein; and
  - (2) any forecast depreciation expense in respect of any asset acquited or forecast to be acquited prior to the commencement of the relevant Forecast Period and in respect of any asset that is forecast to be acquired therein will be determined in a manner not inconsistent with Papua New Guinea tax law, except that the Company's forecast shall assume that the Company seeks to minimize "Income Tax Expense";
- (B) then be escalated (except for the amounts referred to in Clauses 13A.5(d)(ii)(A)(1) and (2)) by applying the United States GNP Deflator for such fiscal year (determined in accordance with Clause 13A.5(d)(iii)(A)) (provided that while the base amount on which any toyalties are calculated will be escalated, such toyalties will not themselves be further escalated); and
- (C) in the case of Operating Costs and Capital Expenditures, be increased by an amount (the "Contingency Amount") reflecting project contingencies, which:
  - (1) will be based upon the Company's previous operating and construction experience, the engineering completed at that time and uncertainties arising from, among other things, the location and nature of the Project; and
  - (2) could average up to approximately 30%, provided that such average, and any particular Contingency Amount, could be less than or greater than 30%.

- (iii) Inflation and interest rates:
  - (A) Inflation:

The Company will submit to the State, by not later than the date which is five months prior to the relevant Test Date, the Company's forecast of the United States GNP Deflator for each fiscal year included in the relevant Forecast Period. If the State notifies the Company within one month after submission of such forecast that such forecast is not acceptable to the State, then the United States GNP Deflator to be used for each fiscal year included in the relevant Forecast Period shall be the arithmetical average of the United States GNP Deflator forecasts from Data Resources, Inc., Chase Econometrics Associates, Inc., and Whattoh Economic Forecasting Associates, Inc. If the State does not so notify the Company's forecast will be used.

- (B) Interest rates:
  - (1) In respect of fixed rate debt outstanding on or prior to the commencement of the relevant Forecast Period, actual interest rates applicable to such debt, as set forth in the documentation that shall have been entered into in relation to such debt, will be used.
  - (2) The Company will submit to the State, by not later than the date which is five months prior to the relevant Test Date, the Company's forecast of Interbank Rates for each Semi-Annual Interest Period (as defined in the definition of "Interbank Rate") included in the relevant Forecast Period. If the State notifies the Company within one month after submission of such forecast that such forecast is not acceptable to the State, the atithmetical average of the forecasts of Interbank Rates from Data Resources, Inc., Chase Econometrics Associates, Inc. and Whatton Economic Forecasting Associates, Inc. will be used. If the State does not so notify the Company that the Company's forecast is not acceptable, the Company's forecast will be used.

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- (3) In respect of floating rate debt outstanding at the commencement of the relevant Forecast Period, it shall be assumed that  $(\pi)$  interest on such debt will accrue for each Semi-Annual Interest Period included in the relevant Forecast Period (on the basis of the actual number of days elapsed in such Semi-Annual Interest Period and a year of 360 days) and (y) the forecast interest rate to be used for such Semi-Annual Interest Period will be equal to the sum of the forecast Interbank Rate for such Semi-Annual Interest Period, determined in accordance with Clause 13A.5(d)(iii)(B)(2), and the margin applicable to such debt for such Semi-Annual Interest Period, as set forth in the documentation that shall have been entered into in relation to such debt.
- (4) In respect of all debt assumed to be drawn down after the commencement of the relevant Forecast Period, it shall be assumed that such debt is floating rate debt and that (π) interest on such debt will accrue for each Semi-Annual Interest Period included in the relevant Forecast Period (on the basis of the actual number of days elapsed in such Semi-Annual Interest Period and a year of 360 days) and (y) the forecast interest rate to be used for such Semi-Annual Interest Period will be equal to the sum of the forecast Interbank Rate for such Semi-Annual Interest Period, determined in accordance with Clause 13A.5(d)(iii)(B)(2), plus a margin of 0.25%.
- (iv) Exchange tates:
  - (A) All amounts included in such Debt Basis Escalated Cash Flow Forecast will be expressed in United States Dollats. Any amounts in currencies other than United States Dollats will be converted to United States Dollats on the basis of the appropriate rate, as specified in Clause 13A.5(d)(iv)(B).
  - (B) For the purposes of Clause 13A.5(d)(iv)(A):
    - (1) Australian dollars shall be converted into United States Dollars at the arithmetical average of the buying rates of exchange for United States Dollars against Australian dollars as quoted by the principal Sydney branch of Westpac Banking Corporation at approximately 11:00 a.m. Sydney time on each of the days for which such a quote is so provided during the period of six months ending on the date which is two months prior to the relevant Test Date;

- (2) Kina shall be converted into United States Dollats at the atithmetical average of the telegraphic transfer buying rates of exchange for United States Dollats against Kina as quoted by the Pott Motesby branch of Westpac Bank—PNG—Limited as its indicative mothing tate on each of the days for which such a quote is so provided during the period of six months ending on the date which is two months prior to the televant Test Date; and
- (3) each cuttency other than Australian dollars and Kina shall be converted into United States Dollars at the arithmetical average of the quoted spot tates at which the principal London branch of Citibank, N.A. offers to exchange United States Dollars for such cuttency at approximately 11:00 a.m. London time on each of the days for which such a quote is so provided during the petiod of six months ending on the date which is two months prior to the relevant Test Date.
- $(\mathbf{v}) = \mathsf{Debt};$

The following assumptions will be made:

- (A) debt outstanding or forecast to be outstanding at the commencement of the relevant Forecast Period, or forecast to be drawn down therein, under documentation theretofore entered into will be repaid in accordance with the repayment provisions of such documentation;
- (B) all Capital Expenditutes (other than amounts expended for replacement of plant, property and equipment or for repairs and maintenance of any plant, property and equipment) of the Company forecast to be made during the relevant Forecast Petrod will be financed from external sources with 75% of such financing to be provided from new debt and 25% of such financing to be provided from equity contributions to be made in cash by the shareholdets of the Company;
- (C) the Company will not exceed the ratio of Debt to Equity set forth in Clause 5.3 of the First Supplemental Agreement; and

- (D) tepayments of principal in respect of debt (other than debt referred to in Clause 13A.5(d)(v)(A)) to be incurred for the putposes of financing Capital Expenditutes in respect of the Single Copper Line will commence six months after the date on which the first production of copper concentrates from the Single Copper Line is forecast to occur, all as set forth in the Updated Single Line Plan, and repayments of principal in respect of debt (other than debt referred to in Clause 13A.5(d)(v)(A)) to be incurred for the purposes of financing the Capital Expenditutes referred to in Clause 13A.5(d)(v)(B) will commence six months after the date on which the first production of copper concentrates from the Expanded Copper Facility included in the Expansion Development Plan to which such Debt Basis Escalated Cash Flow Forecast relates is forecast to occur, all as set forth in such Expansion Development Plan, and all such repayments will be made on a straight-line basis, with the final repayment being made:
  - in the case of debt forecast to be incurred in respect of the Single Coppet Line—on the date which is nine years after the date of first drawdown thereof; and
  - (2) in the case of debt forecast to be incurted in respect of an Expanded Copper Facility (other than debt referred to in Clause 13A.5(d)(v)(D)(1)—on the date which is nine years after the first drawdown thereof.

If, on the basis of such Debt Basis Escalated Cash Flow Fotecast, the Company fotecasts that "Income Tax Expense" will be payable in any fiscal year included in the televant Fotecast Petiod, the amount of "Income Tax Expense" so fotecast to be payable will be de-escalated to a Real Tetrus amount by applying the United States GNP Deflator for such fiscal year (determined in accordance with Clause 13A.5(d)(iii)(A)) and such Real Tetrus amount will be included as the fotecast "Income Tax Expense" component for the televant fiscal year in the televant Equity Basis Real Tetrus Cash Flow Fotecast.

13A.6 The Company will, where necessary, commission the forecasting sources referred to in Clause 13A.5 to prepare the relevant forecasts specifically for the purposes of the provisions of Clause 13A.5 and to provide such forecasts to the Company not later than the date which is two months prior to the relevant Test Date. If any forecasting source referred to in Clause 13A.5 should cease to exist or otherwise become incapable of providing a forecast or become unwilling to provide a forecast, a replacement forecasting source shall be agreed by the State and the Company or, if the State or the Company so requires by notice to the other of them, shall be nominated by an expert to be agreed upon by the State and the Company.

- 13A.7 Each Equity Basis Real Terms Cash Flow Forecast shall:
  - (a) be substantially in the form of Schedule V hereto; and
  - (b) be prepared on the basis of the following assumptions:
    - "FOB Revenue" shall be determined, as set forth in Schedule V hetero, by subtracting (x) the aggregate of "Smelting and Refining Charges" and "Direct Charges to Sales" from (y) "Gross Revenue". In calculating "Gross Revenue" for any fiscal year included in such Equity Basis Real Terms Cash Flow Forecast, the following metal price assumptions will be made:

Coppet, gold, silvet and molybdenum prices to be used for each fiscal year included in the televant Forecast Period will be the Real Terms prices to be used for such fiscal year in accordance with Clauses 13A.5(d)(i)(A), (B), (C) and (D) respectively, but such prices will not be escalated in accordance with the last sentence of Clause 13A.5(d)(i).

 Operating Costs; Capital Expenditutes; Selling, General and Administrative Expenses; Working Capital Requirements and Other Items:

Operating Costs, Capital Expenditutes, selling, general and administrative expenses, working capital requirements, mineral toyalties and costs attributable to the user charge payable under the Infrastructure Agreement will be the Real Terms amounts calculated in accordance with Clause 13A.5(d)(ii) (excluding Clause 13A.5(d)(ii)(B)) except that costs attributable to the user charge payable under the Infrastructure Agreement, with respect to any fiscal year included in the Relevant Forecast Period, will be determined in accordance with the Infrastructure Agreement, and any other applicable assumptions contained herein, and then will be de-escalated to a Real Terms amount by applying the United States GNP Deflator for such fiscal year (determined in accordance with Clause 13A.5(d)(iii)(A)).

- (iii) Taxation:
  - (A) If in any fiscal year included in the televant Forecast Period "Income Tax Expense" is forecast to be payable on the basis of the Debt Basis Escalated Cash Flow Forecast, the Real Terms amount of such forecast "Income Tax Expense" will be included as the forecast "Income Tax Expense" for such fiscal year in the Equity Basis Real Terms Cash Flow Forecast.
  - (B) Fot each fiscal year in which the "Annual Cash Flow" forecast in the Equity Basis Real Terms Cash Flow Forecast is positive, such positive "Annual Cash Flow" shall be reduced to the product obtained by multiplying such positive "Annual Cash Flow" by the factor "1—X", where "X" is the tate (expressed as a decimal) at which dividends payable by the Company (to shareholders that are non-residents of Papua New Guinea) are subject to withholding tax, in accordance with Clause 23.9.

(iv) Exchange tates:

All amounts included in such Equity Basis Real Terms Cash Flow Forecast will be expressed in United States Dollats. Any amounts in currencies other than United States Dollats will be converted to United States Dollats at the applicable exchange rates determined in accordance with Clause 13A.5(d)(iv).

13A.8 (a) The Company will permit the Expett to review and comment on each Expansion Development Plan prior to delivering a copy of such Expansion Development Plan to the State putsuant to Clause 13A.1 and the Company will consult with the Expett and keep the Expett fully informed in connection with each such Expansion Development Plan. The Company will take account of suggestions of the Expett in connection with the Company's optimization of each such Expansion Development Plan in accordance with Clause 13A.2(c).

- (b) The Expett shall be present in Papua New Guinea to the extent necessary for the due performance of his duties and shall have full access to all relevant estimating guides, books, records, information and facilities and all plans, studies and current operating information that may directly or indirectly affect future plans for the Single Copper Line or an Expanded Copper Facility or both.
- (c) By such date as the State and the Company shall agree upon, for the purposes of this Clause 13A.8(c), at the time of designating the Expert, the state and the Company shall agree (such agreement to be set forth in a side letter between the State and the Company) on a budget for the Expert including amounts that may be paid to any outside consultants that may be tetained by the Expert, provided that the compensation of the Expert will be as agreed between the Company and the Expert prior to the appointment of the Expert and will be paid by the Company.
- (d) The Company and the Expert shall use their best efforts to agree, for the purposes of Clause 13A.5(d)(ii), on the Real Terms amounts of the Capital Cost Components and of the Other Cost Categories. If the Expert determines, within 30 days after the Company has established its forecast of such Real Terms amounts, that:
  - the Real Terms total amount of any of the following components (each of which is herein referred to as a "Capital Cost Component") of Capital Expenditutes, hamely:
    - (A) mine facilities;
    - (B) copper plant;
    - (C) transportation;
    - (D) power supply;
    - (E) town facilities; and
    - (F) other
    - is overstated by more than 12.5%; or

- (ii) the Real Tetus amount of any of the following (each of which is hetein referred to as an "Other Cost Category"), hamely:
  - (A) Mining Costs:
  - (B) Milling Costs; and
  - (C) Support Costs
  - is overstated for any fiscal year by more than 10%,

the Company may accept the Expett's determination of request that the matter be referred for determination by the Panel. If and to the extent that the Expett does not so determine that a Capital Cost Component of an Other Cost Category has been overstated as aforesaid, the Company's forecasts shall be final.

- (e) If the Company so requests that a matter be referred for determination by the Panel, the Panel shall consider the views of the Company and of the Expert and shall review such materials as the Company or the Expert may submit, and shall be instructed promptly to issue a determination (by majority vote if necessary), which determination shall be conclusive and binding on the parties. It shall not be open to the Panel to determine that:
  - (i) the Real Terms total amount of any Capital Cost Component is overstated; or
  - (ii) the Real Terms amount of any Other Cost Category is overstated for any fiscal year

by mote than the amount (if any) determined by the Expett. The State, the Company and the Expett will co-operate with the Panel and assist it in issuing a prompt determination. The members of the Panel shall act as expetts and hot as arbitrators.

- (f) If the Expett determines, in respect of any Debt Basis Escalated Cash Flow Forecast relating to any Expansion Development Plan, that the Real Terms total amount of any Capital Cost Component is overstated by more than 12.5% or that the Real Terms amount of any Other Cost Category is overstated for any fiscal year by more than 10% and the Company accepts such determination, then each Debt Basis Escalated Cash Flow Forecast and the Equity Basis Real Terms Cash Flow Forecast relating to such Expansion Development Plan will be modified accordingly. If the Company does not accept such determination, the matter is referred for final determination by the Panel and the Panel upholds the Expett's determination of the Panel determines that the Real Terms total amount of any Capital Cost Component is overstated by any amount, or that the Real Terms amount of any Other Cost Category is overstated for any fiscal year by any amount (provided that in each case the Panel shall not be permitted. to issue a determination that any such amount has been overstated by an amount in excess of the Expett's determination), then each Debt Basis Escalated Cash Flow Forecast and the Equity Basis Real Terms Cash Flow Forecast relating to such Expansion Development Plan will be modified accordingly. If any modification is made to a Debt Basis Escalated Cash Flow Forecast, as set forth above, the Company may at its option make appropriate adjustments to each Debt Basis Escalated Cash Flow Forecast and the Equity Basis Real Terms Cash Flow Forecast applicable to the Updated Single Line Plan to reflect such modification. Any adjustments so made shall be subject to the Expetts teview, but such teview shall be limited to a determination as to the consistency of such adjustments (and such determination shall be refetable for determination by the Panel in accordance with this Clause 13A.8).
- (g) Any Panel to which a matter is referred for determination as hereinbefore provided shall consist of three members who shall be selected as follows and any fees or expenses of any member of the Panel incurred in connection with any such reference shall be paid by the Company. The State and the Company shall negotiate in good faith and shall endeavour to agree, as soon as reasonably practicable after the Company shall have requested that such matter be so referred for determination, on the members of the Panel. If the State and the Company shall not have agreed, within the period of 30 days after the Company shall have requested that such matter be so referred, on all members of the Panel in accordance with the next preceding sentence, then, within a further period of 30 days, the State shall nominate one such member, the Company shall nominate another such member, and the third such member shall be nominated by the petson then serving as the President of the Institution of Mining and Metallurgy (U.K.), or any other Fellow of such Institution designated by such President; provided that a person:
  - who is a citizen of any country of which either of the other members of the Panel shall be a citizen; or
  - (ii) who has at any time teceived any temphetation as a consultant, adviset, employee, member of officet (as defined in Section 1(1) of the Companies Act Chapter 146 of the Revised Laws as in force on 20 Match 1985) of, or of a consultant of adviset to:

- (A) the Company;
- (B) any Sponsot (as defined in Clause 5.5 of the Fitst Supplemental Agreement); or
- (C) any corporation that at the time of the receipt of such temphetation is (or, if the State were itself a corporation, would be) deemed to be a related company, as defined in the said Section 1(1) as in force on 20 Match 1985, of a Sponsor; or
- (iii) who does not have expetience and expettise in the construction, development and operation of mining projects in terrote locations, including the acquisition and (where applicable) installation and operation of plant, property and equipment, and services with respect thereto, or who does not have a general familiarity with budgetaty matters and principles of cost accounting

shall not be eligible for nomination as the third such member of the Panel. If any member of the Panel should die of otherwise become incapable of acting of become unwilling to act, a replacement member shall be agreed upon by the State and the Company or, if the State of the Company so requires by notice to the other of them, shall be nominated by:

- where the member who is to be replaced was nominated by the State or the Company in accordance with the next preceding sentence—the State or the Company, as the case may be; and
- (2) in all other cases—the person then serving as the President of the Institution of Mining and Metallurgy (U.K.), or any other Fellow of such Institution designated by such President, in accordance with the foregoing provisions of this Clause 13A.8(g).
- (h) Each of the dates referred to in the definition of "Test Date" (except 31 December 1996) or in this Clause 13A, and each of the periods specified in this Clause 13A for the performance of the Company's obligations, shall be automatically extended by:
  - (i) any additional time taken in the event that any question is referred to outside consultants by the Expert;
  - (ii) the time taken in the event that a determination of the Expett is referred to a Panel for its determination;
  - (iii) any time taken in selecting any Panel of any replacement to a Panel of any replacement Expert; and

(iv) any other delays beyond the reasonable control of the Company. 13A.9 (a) By not later than the relevant Test Date, the Company will, for each Expansion Development Plan, prepare and deliver to the State a Debt Basis Escalated Cash Flow Forecast in respect of the Company's "Cash Surplus" or "Cash Shottfall", as the case may be (which will include, without limitation, forecasts relating to the Expanded Copper Facility included in such Expansion Development Plan), for each fiscal year included in the relevant Forecast Period until the Cash Flow Cut-Off Date. Except as otherwise provided in this Clause 13A.9, such Debt Basis Escalated Cash Flow Forecast shall be prepared in accordance with Clauses 13A.5 (excluding Clause 13A.5(d)(v)(C)) and 13A.6.

- (b) For the purposes of each Debt Basis Escalated Cash Flow Forecast to be deliveted to the State in accordance with Clause 13A.9(a), it shall be assumed that:
  - (i) except as otherwise provided in Clauses 13A.9(b)(ii) and (iii), all debt of the Company will be tepaid in accordance with the scheduled maturities thereof (and all payments of interest, fees and other amounts payable in respect thereof will be made when due) and any restructuring or proposed restructuring of the Company's debt or shateholdets' equity, or a combination thereof (including, without limitation, any voluntary prepayment of such debt by, and any assumption of such debt by, or assignment or other transfer of such debt to, any Sponsor (as defined in Clause 5.5 of the First Supplemental Agreement)), and all effects, actual and forecast, of such testructuring, shall be distegated;
  - (ii) if, in respect of any fiscal year covered by the Debt Basis Escalated Cash Flow Forecast, such Forecast forecasts a "Cash Shortfall", or a "Cash Sutplus" that is less than the aggregate principle amount of debt that is scheduled to be repaid in such fiscal year, then:
    - (A) in the case of any such fiscal year in which such a "Cash Shottfall" is forecast—such principle amount; and
    - (B) in the case of any such fiscal year in which such a "Cash Sutplus" is forecast—the portion of such principle amount in excess of such "Cash Sutplus",

will be tolled over and advanced to the Company as a loah (and, for the putposes of determining the amount of interest that shall accure in respect of such loah, it shall be assumed that such loah was outstanding for the Semi-Annual Interest Petiod commencing on the 181st day of such fiscal year) and such loah will not be repaid until (and to the extent that) the "Cash Surplus" forecast in respect of succeeding fiscal years is sufficient to cover such repayment in accordance with Clause 13A.9(b)(iii); and

- (iii) any "Cash Sutplus" in respect of each fiscal year covered by the Debt Basis Escalated Cash Flow Forecast that remains after application against the aggregate principle amount of debt that is scheduled to be repaid in such fiscal year in accordance with Clause 13A.9(b)(ii) will be used to prepay debt forecast to be outstanding at the end of such fiscal year, such prepayment to be applied to the instalments of such debt in the inverse order of the maturities thereof (being the actual maturities, in the case of debt in respect of which documentation shall have been entered into, and the assumed maturities, in the case of all other debt).
- (c) If such Debt Basis Escalated Cash Flow Fotecast forecasts that, by the Cash Flow Cut-Off Date, the total debt of the Company forecast to be outstanding will not be reduced to US\$357,613,000 or less, then the Economic Test will be deemed not to have been met in respect of the Expansion Development Plan to which such Debt Basis Escalated Cash Flow Forecast relates.

(d) If such Debt Basis Escalated Cash Flow Fotecast fotecasts that, by the Cash Flow Cut-Off Date, the total debt of the Company fotecast to be outstanding will be reduced to US\$357,613,000 or less, as set forth in Clause 13A.9(c), then the Company will determine whether the conditions set forth in Clauses 13A.10(b)(i) and (ii) shall be met in respect of the Expansion Development Plan to which such Debt Basis Escalated Cash Flow Fotecast relates.

13A.10 (a) On or prior to the relevant Test Date, the Company will deliver to the State each Equity Basis Real Terms Cash Flow Forecast prepared by the Company putsuant to Clause 13A.4. The Company shall include with each such Equity Basis Real Terms Cash Flow Forecast, if the Debt Basis Escalated Cash Flow Forecast in respect of the Expansion Development Plan to which such Equity Basis Real Terms Cash Flow Forecast relates shall have satisfied the condition set forth in Clause 13A.9(d), the Company's calculation of the Net Present Value of:

- (i) the Updated Single Line Plan; and
- (ii) the Expansion Development Plan to which such Equity Basis Real Terms Cash Flow Forecast relates.
- (b) The Company will determine, for each Expansion Development Plan referred to in Clause 13A.9(d), whether both of the following conditions are met:
  - (i) the Net Present Value of such Expansion Development Plan is at least US\$30 million greater than the Net Present Value of the Updated Single Copper Line, in each case calculated as set forth in Clause 13A.10(a); and
  - (ii) the Equity Basis Real Teturs Cash Flow Forecast telating to such Expansion Development Plan forecasts that the number of months in the Special Payout Petiod applicable to such Expansion Development Plan is:
    - (A) if the power source provided for in such Expansion
       Development Plan in accordance with Clause 13A.3(b)(iv) is
       hydro power—84 or less; or
    - (B) if such power source is a power source other than hydropower—78 or less.

13A.11(a) If one of more Expansion Development Plans with a design capacity of 45,000 tonnes of one per day (a "Forty-Five Plan") satisfies or satisfy all of the conditions (the "Test Conditions") set forth in Clauses 13A.9(d) and 13A.10(b)(i) and (ii) and no Expansion Development Plan with a design capacity in excess of 45,000 tonnes of one per day (a "Plus Forty-Five Plan") satisfied all of the Test Conditions, then the Company shall be obligated to select, for the purposes of Clause 13A.11(e), a Forty-Five Plan that satisfies all of the Test Conditions, but shall be permitted to select any such Forty-Five Plan.

- (b) If one of more Fotty-Five Plans and one of more Plus Fotty-Five Plans satisfies or satisfy all of the Test Conditions, then the Company will determine which of such Plus Forty-Five Plans has a Net Plesent Value of not less than US\$20 million greater than the highest Net Present Value of any Fotty-Five Plan that satisfies all of the Test Conditions. If no such Plus Fotty-Five Plan has such a Net Present Value, then the Company shall be obligated to select, for the purposes of Clause 13A.11(e), a Forty-Five Plan or a Plus Forty-Five Plan that satisfies all of the Test Conditions, but shall be permitted to select any such Fotty-Five Plan or Plus Fotty-Five Plan. If only one such Plus Fotty-Five Plan (the "Single 20M Plus Fotty-Five Plan") has such a Net Present Value, then the Company shall be obligated to select, for the purposes of Clause 13A.11(e), a Plus Fotty-Five Plan that satisfies all of the Test Conditions and has a design capacity that is equal to or greater than the design capacity of the Single 20M Plus Forty-Five Plan, but shall be permitted to select any such Plus Fotty-Five Plan. If more than one such Plus Fotty-Five Plan (the "Multiple 20M Plus Fotty-Five Plans") has such a Net Present Value, then the Company shall be obligated to select, for the purpose of Clause 13A.11(e), a Plus Fotty-Five Plan that satisfies all of the Test Conditions and has a design capacity that is equal to or greater than the design capacity of the Multiple 20M Plus Fotty-Five Plan with the highest Net Present Value, but shall be permitted to select any such Plus Fotty-Five Plan.
- (c) If no Forty-Five Plan satisfies all of the Test Conditions, and only one Plus Forty-Five Plan satisfies all of the Test Conditions, then the Company shall be obligated to select such Plus Forty-Five Plan for the purposes of Clause 13A.11(e) only if such Plus Forty-Five Plan has a Net Present Value of not less than US\$40 million greater than the Net Present Value of the Updated Single Line Plan. If such Plus Forty-Five Plan does not have a Net Present Value of not less than US\$40 million greater than the Net Present Value of the Updated Single Line Plan, then the Company shall not be obligated to select any Expansion Development Plan for the purposes of Clause 13A.11(e).

- (d) If no Fotty-Five Plan satisfies all of the Test Conditions, and more than one Plus Fotty-Five Plan satisfies all of the Test Conditions, then the Company will determine which of such Plus Fotty-Five Plans has a Net Present Value of not less than US\$40 million greater than the Net Present Value of the Updated Single Line Plan. If no such Plus Fotty-Five Plan has such a Net Present Value, then the Company shall not be obligated to select any Expansion Development Plan for the purposes of Clause 13A.11(e). If only one such Plus Fotty-Five Plan (the "Single 40M Plus" Forty-Five Plan") has such a Net Present Value, the Company shall be obligated to select, for the putposes of Clause 13A.11(e), a Plus Fotty-Five Plan that satisfies all of the Test Conditions and has a design capacity that is equal to or greater than the design capacity of the Single 40M Plus Forty-Five Plan, but shall be permitted to select any such Plus Forty-Five Plan. If more than one such Plus Forty-Five Plan (the 'Multiple 40M Plus Forty-Five Plans") has such a Net Present Value, then the Company shall be obligated to select, for the purposes of Clause 13A.11(e), a Plus Forty-Five Plan that satisfies all of the Test Conditions and has a design capacity that is equal to or greater than the Multiple 40M Plus Forty-Five Plan with the highest Net Present Value, but shall be permitted to select any such Plus Fotty-Five Plan.
- (e) If the Company shall be obligated to select an Expansion Development Plan in accordance with the preceding provisions of this Clause 13A.11, the Company shall:
  - (i) deliver to the State, as soon as teasonably practicable after the Economic Test has been met, a notice putsuant to Clause 4.2 of the First Supplemental Agreement proposing the construction and operation of the Expanded Copper Facility included in such Expansion Development Plan (subject to Clause 18.5) which notice shall, subject to Clause 4.2A of the First Supplemental Agreement, be dealt with in accordance with the provisions and procedure set out in Clause 4.2 of the First Supplemental Agreement; and
  - (ii) be obligated, in accordance with this Agreement and the Approved Proposals, to proceed, promptly after the State's approval of such notice, with the construction of the Expanded Copper Facility included in such Expansion Development Plan (subject to Clause 18.5), such construction to be conducted in accordance with such Expansion Development Plan.
- (f) If, in tespect of any Test Date:
  - (i) no Expansion Development Plan satisfies all of the Test Conditions; or
  - (ii) the Company is not obligated to select an Expansion Development Plan hereunder,

the Company will, subject to Clause 13A.12, tepeat the Ecohomic Test on the hext ensuing Test Date.

13A.12(a) Notwithstanding anything to the contrary herein contained, the Company may at any time submit to the State a notice (an "Expansion Change Notice") putsuant to Clause 4.2 of the Fitst Supplemental Agreement that includes a proposed Expansion Development Plan which notice shall, subject to Clause 4.2A of the First Supplemental Agreement, be dealt with in accordance with the provisions and procedure set out in Clause 4.2 of the First Supplemental Agreement. If an Expansion Change Notice shall be approved or deemed approved by the State or shall otherwise become effective, the Company shall be obligated, in accordance with this Agreement and the Approved Proposals, to proceed, promptly after the State's approval of such Expansion Change Notice, with the construction of the Expanded Copper Facility included in such Expansion Change Notice, such construction to be conducted in accordance with such Expansion Change Notice, and shall not thereafter be obligated to prepare any Equity Basis Real Terms Cash Flow Forecast or Debt Basis Escalated Cash Flow Forecast or to prepare or submit to the State any Updated Single Line Plan of any Expansion Development Plan of to construct any Expanded Copper Facility putsuant to Clause 13A.11.

- (b) If the State rejects an Expansion Change Notice on the basis that it does not satisfy the requirements set forth in Clauses 13A.3(a), (b) and (c), the Company may submit to the Expert for determination (but shall not be permitted to refer to arbitration under Clause 38) the question whether such Expansion Change Notice satisfies such requirements. Either the State of the Company may request that the Expert's determination be referred to the Panel (in which event the provisions of Clauses 13.A.8(e) (other than the second sentence thereof) and (g) shall, mutatis mutandis, apply), provided that such request must be made within 30 days after issuance of any such determination by the Expert.
- (c) If the question of whether an Expansion Change Notice satisfies the requirements set forth in Clauses 13A.3(a), (b) and (c) is submitted to the Expert or referred to the Panel:
  - the next ensuing Test Date shall not, as a tesult thereof, be extended; and
  - (ii) if:
    - (A) a determination is delivered by the Expect or the Panel (as the case may be) before the results of the next ensuing Economic Test (the "Parallel Test") become binding on the parties, then:
      - (1) if such determination is to the effect that the Expansion Change Notice satisfies the tequitements set forth in Clauses 13A.3(a), (b) and (c), such determination shall be conclusive and binding on the parties and neither the State not the Company will be entitled to refer any dispute, question or difference of opinion with respect to whether such Expansion Change Notice satisfies such requirements to arbitration putsuant to this Agreement; and

- (2) if such determination is to the effect that such Expansion Change Notice does not satisfy the requirements set forth in Clauses 13A.3(a), (b) and (c), the Company shall be obligated (subject to any subsequent application of the provisions of this Clause 13A.12) to perform the Economic Test on the next ensuing Test Date in accordance with this Agreement; and
- (B) the tesuits of the Patallel Test become binding on the patties before a determination is delivered by the Expett of the Panel (as the case may be), then:
  - if the Ecohomic Test is met with tespect to one of mote Expansion Development Plans, the Company shall be obligated to select and develop an Expansion Development Plan in accordance with Clause 13A.11;
  - (2) if the Economic Test is not met with respect to any Expansion Development Plan and the Expect of the Panel (as the case may be) thereafter determines that the Expansion Change Notice satisfies the requirements set forth in Clauses 13A.3(a), (b) and (c), such determination shall be conclusive and binding on the parties and neither the State nor the Company will be entitled to refer any dispute, question or difference of opinion with respect to whether such Expansion Change Notice satisfies such requirements to arbitration putsuant to this Agreement; and
  - (3) if the Ecohomic Test is hot met with respect to any Expansion Development Plan and the Expect of the Panel (as the case may be) thereafter determines that the Expansion Change Notice does not satisfy the requirements set fourth in Clauses 13A.3(a), (b) and (c), the Company shall be obligated (subject to any subsequent application of the provisions of this Clause 13A.12) to repeat the Ecohomic Test on the next ensuing Test Date in accordance with this Agreement.
- (d) If the State disapproves of the proposed Expansion Development Plan set forth in an Expansion Change Notice and the Company elects (subject to Clauses 13A.12(b) and (c)) to refer the reasonableness of the disapproval to arbitration under Clause 38:
  - the provisions of Clause 4.2(e) of the First Supplemental Agreement shall apply; and
  - (ii) if:
    - (A) the arbitration award is to the effect that the State's disapproval was unteasonable—the Expansion Change Notice shall be deemed approved; and

(B) such a ward is to the effect that such disapproval was teasonable—the Company shall be obligated (subject to any subsequent application of the provisions of this Clause 13A.12) to perform the Economic Test on the next ensuing Test Date in accordance with this Agreement.

13A.13(a) In respect of any Test Date, the State may elect, within 14 days after delivery to the State by the Company of:

- any Debt Basis Escalated Cash Flow Forecast prepared for the purposes of Clause 13A.9(a);
- (ii) any Equity Basis Real Terms Cash Flow Forecast delivered putsuant to Clause 13A.10 (including any Debt Basis Escalated Cash Flow Forecast prepared for the putposes of determining for each fiscal year included in such Equity Basis Real Terms Cash Flow Forecast whether "Income Tax Expense" is to be included in the cash flow forecast for such fiscal year); or
- (iii) the results of any determination made putsuant to Clause 13A.10, 13A.11 or 18.5(c)(ii),

that the Company's calculations be referred to the Auditor. If the State so elects that the Company's calculations be so referred, the Auditor shall:

- (A) check such calculations for mathematical accuracy; and
- (B) (whete applicable) determine in respect of the preparation of such Debt Basis Escalated Cash Flow Forecasts and Equity Basis Real Terms Cash Flow Forecasts:
  - whether the same have been prepared in accordance with the applicable provisions of this Agreement; and
  - (2) whether the principles of financial analysis applied in relation to such preparation have been applied consistently.

The Auditor shall be instructed to carry out his duties in a timely fashion, and the State and the Company will co-operate with the Auditor and assist him in so cattying out his duties. If the Auditor disagrees in any material respect with the mathematical accuracy of the Company's calculations or (where applicable) determines that in respect of the preparation of any such Debt Basis Escalated Cash Flow Forecast or Equity Basis Real Terms Cash Flow Forecast the same has not, in any material respect, been prepared in accordance with the applicable provisions of this Agreement or the principles of financial analysis applied in relation to such preparation have not, in any material respect, been applied consistently, the Company may accept the Auditor's view or request that the matter be referred for determination by a nominee of the person then serving as the President of the ICA. If the Auditor does not so disagree or (where applicable) determine as aforesaid, the Company's calculations, the Debt Basis Escalated Cash Flow Forecasts and the Equity Basis Real Terms Cash Flow Forecasts (as the case may be) shall be deemed approved.

- (b) If the Company so requests that a matter be referred for determination by a nominee of the person then serving as the President of the ICA, such nominee shall consider the views of the Company and of the Auditor and shall teview such materials as the Company of the Auditor may submit and shall be instructed promptly to issue a determination which determination shall be conclusive and binding on the parties. The State, the Company and the Auditor will co-operate with such nominee and assist him in issuing a prompt determination. Such nominee shall act as an expert and not as an arbitrator.
- (c) Each of the dates referred to in the definition of "Test Date" (except 31 December 1996) or in this Clause 13A and each of the periods specified in this Clause 13A for the performance of the Company's obligations, shall be automatically extended by:
  - (i) the time taken by the Auditor in considering the Company's calculations and reviewing the preparation of the Debt Basis Escalated Cash Flow Forecasts and of the Equity Basis Real Terms Cash Flow Forecasts;
  - (ii) the time taken in the event that the Auditot's view is referred for determination by a nominee of the person then serving as the President of the ICA; and
  - (iii) any other delays beyond the reasonable control of the Company."

## 8. POWER

- 8.1 Clause 18.1 of the Principal Agreement is amended by deleting the last sentence thereof.
- 8.2 Clause 18 of the Principal Agreement is amended by insetting the following provisions at the end thereof:
- '18.5(a) By not later than the date which is two months prior to the date determined in accordance with paragraph (a) of the definition of 'Test Date'' (or, where the Economic Test is to be repeated in accordance with Clause 13A.11(f), by not later than the date which is two months prior to the next succeeding Test Date), the Company will prepare and deliver to the State a separate set of power source plans for each different design capacity provided for in any Expansion Development Plan.
  - (b) Each such set of power source plans shall:
    - (i) provide for the construction of a power source which, together with any power source in existence at the date of preparation of such power source plans, is capable of generating sufficient power to operate the Expanded Copper Facility at the design capacity provided for in the Expansion Development Plan to which it relates; and
    - (ii) include separate plans for hydro power and any other power source that the Company may choose, including any combination of power sources.
  - (c) Each such power source plan shall contain:

- (i) for each fiscal year included in the relevant Forecast Period, a
  forecast of all Capital Expenditutes and Operating Costs, including
  any Contingency Amounts, expressed in annual US Dollat Real
  Terms, forecast in connection with the construction and operation of
  the power source (or any combination of power sources) included in
  such power source plan and taking taxes into account in accordance
  with Schedule VI hereto; and
- a determination of the Net Present Cost of the power source included in such plan,

all in accordance with Schedule VI hereto.

- (d) The power source plan in a particular set of power source plans that contains the lowest Net Present Cost in such set will be included in each Expansion Development Plan to which such set relates.
- (e) If in respect of any Test Date the State disagtees with the fuel price forecasts included in the sets of power source plans delivered putsuant to Clause 18.5(a) and notifies the Company of such disagteement within 14 days after delivery of such sets, the fuel price forecasts to be contained in each of the power source plans shall be the average of the prices forecast by an expert to be agreed upon by the State and the Company. If the State does not so notify the Company of such disagteement, the fuel price forecasts of the Company shall be used. In other respects the power source plans will only be subject to review by the Auditor, as set forth in Clause 13A.13, or the Expert, to the extent that Capital Expenditures and Operating Costs contained in the Expansion Development Plan to which such power source plans relate are subject to review as set forth in Clause 13A.8.
- (f) If the Company shall be obligated to construct an Expanded Coppet Facility hereunder, the Expansion Development Plan selected by the Company for that purpose shall provide for the construction of a power source selected by the Company (which may but need not be the power source included in the power source plan that contains the lowest Net Present Cost as referred to in Clause 18.5(d), and if the power source so selected by the Company is different from the power source included in such power source plan then the power source so selected by the Company shall be substituted therefor) so long as:
  - (i) such powet source, togethet with any powet source in existence at the date of preparation of such Expansion Development Plan, is capable of generating sufficient power to operate such Expanded Copper Facility at the design capacity provided for in such Expansion Development Plan selected by the Company; and
  - (ii) a compatison of:
    - (A) the Net Present Cost of the power source in the plan selected by the Company (the "OTML Plan"); and

(B) the Net Present Cost of the power source in the plan of the same set with the lowest Net Present Cost in such set (the "Lowest NPC Plan"),

teveals that the Net Present Cost of the Lowest NPC Plan is not less than 85% of the Net Present Cost of the OTML Plan.

If the Net Present Cost of the Lowest NPC Plan is less than 85% of the Net Present Cost of the OTML Plan, then the Expansion Development Plan for any Expanded Copper Facility that the Company is obligated to proceed to construct under Clause 13A.11(e) shall provide for the construction of the power source in the Lowest NPC Plan.

- (g) The State may elect that the Company's calculations of the compatison referred to in Clause 18.5(f) be referred to the Auditor. If such an election is made, the Auditor shall:
  - (i) check, such calculations for mathematical accuracy; and
  - determine whether:
    - (A) such calculations have been made in accordance with the applicable provisions of this Agreement; and
    - (B) the principles of financial analysis applied in relation to such calculations have been applied consistently.

The Auditot shall be instructed to carty out his duties in a timely fashion, and the State and the Company will co-operate with the Auditot and assist him in so cartying out his duties. If the Auditot disagrees in any material respect with the mathematical accuracy of the Company's calculations of (where applicable) determines that the same have not, in any material respect, been prepared in accordance with the applicable provisions of this Agreement of the principles of financial analysis applied in relation to such preparation have not, in any material respect, been applied consistently, the Company may accept the Auditot's view of request that the matter be referred for determination by a nominee of the person then serving as the President of the ICA. If the Auditor does not so disagree of (where applicable) determine as aforesaid, the Company's calculations of the comparison referred to in Clause 18.5(f) shall be deemed approved.

(h) If the Company so requests that a matter be referred for determination by a nominee of the person then serving as the President of the ICA, such nominee shall consider the views of the Company and of the Auditor and shall review such materials as the Company or the Auditor may submit and shall be instructed promptly to issue a determination which determination shall be conclusive and binding on the parties. The State, the Company and the Auditor shall co-operate with such nominee and assist him in issuing a prompt determination. Such nominee shall act as an expert and not as arbitrator.'.

### 9. MINING PLANS

Clause +3 of the Principal Agreement is amended by insetting the following provisions at the end thereof:

'43.2(a) In order to assist any Sponsor (as defined in Clause 5.5 of the First Supplemental Agreement) in exercising its option referred to in Clause 13A.1, the Company shall deliver to each Sponsor, on or before:

- the date which is 13 months prior to the date determined in accordance with paragraph (a) of the definition of "Test Date"; or
- (ii) the date which is 30 days after the date on which the Bill referred to in Clause 3.1 of the Supplemental Agreement dated as of 1 August 1985 and headed "Fifth Supplemental Agreement" is passed as an Act and comes into force,

whichever is the later, mining plans and extraction schedules in five yearly intervals covering the period from 1 January 1991 until 31 December 2011 based on the following ore processing tates: 30,000 tonnes of ore per day, 45,000 tonnes of ore per day and 60,000 tonnes of ore per day, with the following cut off grades:

Coppet Ore Cu not less than 0.3%,

with oxide Cu not more than 25% of total Cu.

Such mining plans shall be subject to the State's approval.

- (b) On or before 31 December 1988, the Company will submit to the State mining plans in five yearly intervals covering the period from 1 January 1991 until 31 December 2011 or the date on which the agreed mineable ore reserves, as set forth in the Approved Proposals, shall be exhausted, whichever is the earlier. Such mining plans shall be subject to the State's approval if and to the extent that they differ in any material respect from the plans delivered under Clause 43.2(a).
- (c) Prior to the commencement of each calendar year (commencing with the calendar year 1986), the Company will deliver to the State a copy of the Company's mining plan for such year, for information purposes. Such mining plan shall be generally consistent with the five yearly plan that is then current and that has been delivered putsuant to Clause +3.2(a), (b) or(d).
- (d) If the Company proposes to deliver a mining plan putsuant to Clause 43.2(c) which would not be generally consistent with the five yearly plan that is then cuttent and that has been delivered putsuant to Clause 43.2(a) or (b) or putsuant to this Clause 43.2(d), the Company will, as soon as practicable, deliver to the State for approval by the State a revised five yearly plan with which such mining plan would be consistent.
- (e) The Company will advise the State if any changes to the yearly mining plan (including waste disposal programs) become necessary that will have any material effect on the gross or net revenues of the Company during the year the subject thereof or that are likely to have any material financial effect on the Company's operations in subsequent years."

#### 10. STATE EQUITY PARTICIPATION AND DEET SUPPORT; LIMITATION ON DIVIDENDS AND OTHER DISTRIBUTIONS

Clause 11 of the Principal Agreement is amended by insetting the following provisions at the end thereof:

- '11.12 Notwithstanding anything to the contraty contained in this Agreement of in the First Supplemental Agreement, the obligation of the State to subscribe on or after 1 August 1985 for shares in the Company of to furnish Support (as defined in Clause 5.5 of the First Supplemental Agreement) in respect of Loans (as likewise defined) advanced of otherwise made available on or after 1 August 1985 shall be only as set forth in this Clause 11.12. The State shall:
  - (a) subscribe directly or indirectly, during the period from and including 1 August 1985 to and including 28 February 1986 or such later date as the State may agree to (the "Participation Period"), for 20% of any shares in the capital of the Company; and
  - (b) furnish Support in an amount equal to 20% of any total Supported Loans (as defined in Clause 5.5 of the First Supplemental Agreement) advanced or otherwise made available to the Company during the Participation Period;

ptovided that the State shall not be obligated to subscribe for any such shares or furnish Support in respect of any such Total Supported Loans to the extent that the amount paid up in respect of shares in the Company for which the State shall have subscribed during the Participation Period or the amount of Total Supported Loans in respect of which the State shall have furnished Support during the Participation Period, or any combination thereof, would thereby exceed US\$10,000,000 or such greater amount as the State may agree to (the "Participation Period Limit"). The provisions of Clause 5.20 of the First Supplemental Agreement shall apply, mutatis mutandis, to this Clause 11.12.

#### 11.13 Prior to the earlier of:

 (a) the Date of Practical Completion in respect of the Single Copper Line; and
 (b) the Date of Practical Completion in respect of the Expanded Copper Facility provided for in the Expansion Development Plan included in an Expansion Change Notice that shall have been approved or deemed approved by the State or that shall otherwise have become effective

the Company's board of directors will not declate any dividends and the Company will neither repay any shareholder loans not return any capital to its shareholders, in each case unless the State otherwise agrees in writing."

# 11. ADDITIONAL PROFITS TAX

Clause 23.7 of the Principal Agreement is amended by substituting the following for the definition of "R" in paragraph (b) thereof:

- "R = the accumulation tate as determined under paragraph (a) above, provided that R shall be zero in respect of the period from (and including) 1 October 1986 to (but excluding) whichever is the earlier of:
  - (i) the Date of Practical Completion in respect of the Single Copper Line; and

(ii) the Date of Practical Completion in respect of the Expanded Copper Facility provided for in the Expansion Development Plan included in an Expansion Change Notice that shall have been approved or deemed approved by the State of that shall otherwise have become effective;".

#### 12 APPROVED PROPOSALS

- 12.1 Clause 9 of the Principal Agreement is amended by insetting the following provision at the end thereof:
- 9.8 to the extent that there is any inconsistency between the Company's obligations undet:
  - (a) this Agreement (excluding the amendments made by the Fifth Supplemental Agreement) or the Approved Proposals; and
  - (b) the amendments made by the Fifth Supplemental Agreement

with respect to the timing and manner of the development of the Project, the amendments made by the Fifth Supplemental Agreement shall govern and this Agreement (excluding the amendments made by the Fifth Supplemental Agreement) or the Approved Proposals, as the case may be, shall be deemed changed accordingly, without any further action on the part of the State or the Company.'

- 12.2 Clause + of the First Supplemental Agreement is amended by insetting the following provision after Clause +.2 thereof:
- '4.2A If the Economic Test is met with respect to any Expansion Development Plan or if the Company shall submit to the State an Expansion Change Notice in accordance with Clause 13A.12:
  - (a) the Company will not utilize:
    - (i) the variation procedure set forth in Clause 4.1 or 4.2 hereof; or
    - (ii) the procedure set forth in Clause 29.2 of the Principal Agreement; and
  - (b) the State will not utilize the approval procedures in such Clauses in such a way as to seek changes to the Approved Proposals that are inconsistent with the amendments to the Principal Agreement that are set forth in the Supplemental Agreement dated as of 1 August 1985 and headed "Eifth Supplemental Agreement" (other than the amendment set forth in Clause 6 of such supplemental Agreement)."
- 12.3 Clause 4.2 of the First Supplemental Agreement is amended by substituting the following for paragraph (e) thereof:
- "(e) each of the dates referred to in the definition of "Test Date" (except 31 December 1996), 13 and 13A of the Principal Agreement, and each of the periods specified in Clauses 13 and 13A of the Principal Agreement for the performance of the Company's obligations, shall be automatically extended by the period of time from the Company's election under paragraph (d) until the arbitration award is given.".

### 13. FORCE MAJEURE

Clause 36.1 of the Principal Agreement is amended by:

(a) insetting "or the Approved Proposals" before "shall not be grounds"; and(b) insetting the following after "claim for damages":

"or to invoke any penalty provided for herein or in the Approved Proposals, including, in the case of the State, the right to require a reduction in any rate at which the Company shall be permitted to process ore,".

#### 14. MODIFICATION OF ARBITRATION PROCEDURE

Clause 38 of the Principal Agreement is amended by insetting the following provision at the end thereof:

'38.5 Notwithstanding anything elsewhete hetein contained, neither the State not the Company will be entitled to refer any dispute, question or difference of opinion with respect to anything contained in Clause 13A (other than as referred to in Clause 13A.12(d)) or 18.5 to arbitration putsuant to this Agreement.'

# 15. TAXATION EFFECTS ON SPONSORS

Clause 23 of the Principal Agreement is amended by insetting the following provisions at the end thereof:

\*23.13 Clause 23.9 shall apply in tespect of Gross Dividends payable by a company (a. "Holding Company"), through which a Sponsor (as defined in Clause 5.5 of the Fitst Supplemental Agreement) holds its shates in the Company indirectly, in the same manner in which it applies to Gross Dividends payable by the Company and a Sponsor (as so defined) that holds its shates in the Company through a Holding Company shall be treated in all other respects, so far as the tazation laws of the State are concerned, as if such Sponsor instead held such shates in its own name."

16. RATES AND DUTIES

Clause 25.4 of the Principal Agreement is amended by insetting "direct or indirect" before "beneficial" in two places where it appears.

#### 17. CURRENCY

Clause 26.5 of the Ptincipal Agreement is amended by insetting "(including direct and indirect holders of shares in the Company)" after "members" in three places where it appears.

#### 18. SCHEDULES IV, V AND M

The Principal Agreement is amended by inserting immediately after Schedule III thereto the matter appearing in the Schedule to this Agreement.

## 19. CERTAIN OTHER MATTERS RELATING TO THE PROJECT

19.1 The State and the Company agree to discuss options designed to maximize the efficiency of the Project and the profitability of the Company that may be proposed from time to time by the Company, with the object of agreeing on options to be implemented and thereafter implementing the options agreed to.

19.2 Upon the Enactment Date, Change Notices No. 24/4.2; 6/29.2 and No. 25/4.2; 7/29.2 shall be deemed automatically to have been withdrawn by the Company with the concurrence of the State.

#### 20. ENUREMENT

This Agreement, and the Principal Agreement and the First Supplemental Agreement as respectively amended hereby, shall enure for the benefit of the parties hereto and thereto and their respective permitted assignees. Nothing contained in this Agreement, not the amendments to the Principal Agreement and to the First Supplemental Agreement provided for herein, shall impose any obligations on any one or more of the Corporate Sponsots.

# 21. CONSOLIDATION

Lf:

(a) the Principal Agreement and all amending agreements, or(b) the First Supplemental Agreement and all amending agreements,

(whether made before or after this Agreement) are consolidated by the State into one agreement, and each of the Company and the other parties thereto (or their respective assignees) hotifies the State that it is satisfied that the consolidation is accutate (hotwithstanding any renumbering of the provisions of the amending agreements necessary to effect such a consolidation), then the State may cause notice of such consolidation to be published in the Gazette, and thereupon such consolidation shall have the same force and effect as the equivalent provisions of the Principal Agreement and amending all agreements or (as applicable) as the equivalent provisions of the First Supplemental Agreement and all amending agreements.

#### 22. COUNTERPARTS

This Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original, such counterparts shall together constitute one agreement.

#### 23. GOVERNING LAW

This Agreement shall be governed by and construed in accordance with the law of Papua New Guinea.

IN WITNESS whereof the patties hereto have executed this Agreement the 1st day of August 1985. SIGNED for and on behalf of THE INDEPENDENT STATE OF K. DIBELA PAPUA NEW GUINEA by KINGSFORD DIBELA, Governot-General, acting with and in accordance with the advice of the National Executive Council, in the presence of: H. INGIRIN SIGNED for and on behalf of AMOCO CORPORATION by its duly authorized LELAND C. ADAMS Executive Vice-President in the presence of: ROBERT D. AGDERN SIGNED for and on behalf of AMOCO MINERALS PNG COMPANY by its doly RALPH E. ANDERSON authorized Vice-President in the presence of: ROBERT D. AGDERN SIGNED for and on behalf of THE BROKEN HILL PROPRIETARY R.J. CARTER COMPANY LIMITED by its doly constituted attorney in the presence of: R.A. DRUCKER SIGNED for and on behalf of BHP MINERALS HOLDINGS R.J. CARTER PROPRIETARY LIMITED by its duly constituted attorney in the presence of: TOM POULTON SIGNED for and on behalf of METALL-M. VON MUELLER GESELLSCHAFT AG by its doly constituted attorneys in the presence of: TOM POULTON SIGNED for and on behalf of DEGUSSA E. GUMRICH AG by its duly constituted attorneys in the presence of: R.A. DRUCKER SIGNED for and on behalf of DEG-DEUTSCHE FINANZIERUNGS-GESELLSCHAFT FUER M. VON MUELLER. BETELLIGUNGEN IN ENIWICKLUNGSLAEDERN GMBH

by its duly constituted attorneys in the presence of: TOM POULTON SIGNED for and on behalf of OK TEDI MINING LIMITED by its duly constituted attorney in the presence of: J.W. TURNER

# SCHEDULE IV

| Lin | ltem                                  |   |   |   | Y | ears | of E | ore | cast | Per | iod ( | Exan | πple) |    |    |    |
|-----|---------------------------------------|---|---|---|---|------|------|-----|------|-----|-------|------|-------|----|----|----|
| e   |                                       |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| No. |                                       |   | - | _ |   | _    |      | _   | _    | _   |       |      |       |    |    |    |
|     |                                       | 1 | 2 | 3 | 4 | 5    | 6    | 7   | 8    | 9   | 10    | 11   | 12    | 13 | 14 | 15 |
| 1.  | Gross Revenue                         |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 2.  | Smelting and                          |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Refining Charges                      |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 3.  | Direct Charges to                     |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Sales                                 |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 4.  | FOB Revenue                           |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 5.  | Operating Costs                       |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 6.  | Depreciation,                         |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Amortization and                      |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Other Non-Cash                        |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| _   | Charges                               |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 7.  | Mineral Royalties                     |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 8.  | Selfing, General and                  |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Administrative                        |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| _   | Expenses                              |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 9.  | Net Trading Margin                    |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 10. | Roadco Payment                        |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 11. | Interest Expense                      |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 12. | Profit Before Tax                     |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 13. | Income Tax Expense                    |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 14. | Net Income                            |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 15. | Cash from                             |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| • • | Operations                            |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 16. | Capital<br>Regionality                |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Expenditures—                         |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 17. | Development                           |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 17. | Capital<br>Examplifation              |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Expenditores—                         |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 18. | Sustaining<br>Increases or            |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 10. | Decreases in                          |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Working Capital                       |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 19. | Loan Fees                             |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 20. | Cash Surplus (Cash                    |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 201 | Shortfall)                            |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 21. | Loan Repayments                       |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 22. | Loan Drawdowns                        |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 23. | Capitalized Interest                  |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 24. | Cash Equity                           |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Contributions from                    |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | Shareholders                          |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 25. | Dividends or Returns                  |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | of Capital                            |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 26. | Outstanding Debt                      |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
| 27. | Notional Equity                       |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |
|     | · · · · · · · · · · · · · · · · · · · |   |   |   |   |      |      |     |      |     |       |      |       |    |    |    |

# Debt Basis Escalated Cash Flow Forecast

|      | Balance  |  |
|------|--|--|
| DEBT | BASIS ESCALATED CASH FLOW F                              | ORECAST  |
| Line | ltern  | Explanation  |
| No.  |  |  |
| 1.   | Gtoss Revenue  | The sum of all gross sales of (a) gold, silver and copper<br>whether sold as metals or as metals contained in<br>concentrates, (b) molybdenum whether sold as metal<br>contained in concentrates of in molybdenum oxide and (c)<br>any other product sales. Unit sales volumes in (a), (b) and<br>(c) above will be consistent with the operating plan and<br>the mining plan of the Company relating to the Expanded<br>Copper Facility of the Single Copper Line, as applicable,<br>in respect of which the Debt Bases Escalated Cash Flow<br>Forecast is prepared. In forecasting Gross Revenue, the<br>forecast metal prices determined in accordance with<br>Clause 13A.5(d)(i) will be used. |
| 2.   | Smelting and Refining Chatges                            | <ul> <li>All charges or other adjustments to convert gold, silver, coppet, molybdehum and any other minetals (whether contained in metallic form or in concentrates of any other form) into products sold as referred to in Gross Revenue (1). The Company's forecast of Smelting and Refining Charges will:</li> <li>(a) be consistent with any contracts that the Company shall have entered into or that the Company shall assume to be entered into for the purposes of the Debt Basis Escalated Cash Flow Forecast, together with any relevant operating experience of the Company; and</li> </ul>  |
| 3.   | Ditect Charges to Sales                                  | <ul> <li>(b) be adjusted to teflect discounts or pterminums in<br/>tespect of product sales.</li> <li>All freight, insutance, and other chatges to sales, as<br/>forecast by the Company, which forecast will be consistent<br/>with any contracts that shall have been entered into or are<br/>assumed by the Company to be entered into for the<br/>purposes of the Debt Basis Escalated Cash Flow Forecast,<br/>together with any relevant operating experience of the<br/>Company.</li> </ul>  |
| 4.   | FOB Revenue  | Result of Gross Revenue (1) minus Smelting and Refining<br>Charges (2) minus Direct Charges to Sales (3).  |
| 5.   | Operating Costs  | As defined in Clause 1 and determined in accordance with<br>Clause 13A.5(d)(ii).   |
| 6.   | Depreciation, Amortization<br>and Other Non-Cash Charges | Non-cash expenses determined in a mannet not<br>inconsistent with Papua New Guinea's tax law, except that<br>the Company's forecast shall assume that the Company<br>seeks to minimize Income Tax Expense (13).  |
| 7.   | Minetal Royalties  | All toyalties payable by the Company, as forecast by the Company.  |

| 8.  | Selling, Genetal and<br>Administrative Expenses | All expenses excluding OperatingCosts (5), Depreciation,<br>Amotization and other Non-cash Charges (6), Minetal<br>Royalties (7), Roadco Payment (10), Interest Expense (11)<br>and Income Tax. Expense (13).   |
|-----|---|---|
| 9.  | Net Trading Matgin                              | Result of FOB Revenue (4) minus Operating Costs (5)<br>minus Depteciation, Amottization and Other Non-Cash<br>Charges (6) minus Mineral Royalties (7) minus Selling,<br>Genetal and Administrative Expenses (8).  |
| 10. | Roadco Payment                                  | Costs attributable to the user charge payable under the<br>Infrastructure Agreement, determined in accordance with<br>the Infrastructure Agreement and any applicable<br>assumptions contained in the amendments made by the<br>Eifth Supplemental Agreement.   |
| 11. | Interest Expense                                | Interest Expense will be calculated applying interest tates,<br>determined in accordance with Clause 13A.5(d)(iii)(B), to<br>debt forecast to be outstanding.   |
| 12. | Profit Before Tax                               | Result of Net Trading Matgin (9) minus Roadco Payment<br>(10) minus Interest Expense (11).  |
| 13. | Income Tax Expense                              | Income taxes calculated in accordance with Clause<br>13A.5(c). It will be assumed that the Company seeks to<br>minimize Income Tax Expense (including utilization of<br>any available loss carry forwards).   |
| 14. | Net Income                                      | Result of Profit Before Tax (12) minus Income Tax<br>Expense (13).  |
| 15. | Cash from Operations                            | Sum of Net Income (14) plus Depreciation, Amortization<br>and Other Non-Cash Charges (6).   |
| 16. | Capital Expenditutes—<br>Development            | Capital Expenditutes described in Clause 13A.5(d)(v)(B)<br>that is, all Capital Expenditutes (other than Capital<br>Expenditutes—Sustaining (17)).  |
| 17. | Capital Expenditutes—<br>Sustaining             | Capital Expenditutes expended for replacement of plant,<br>property and equipment or for repaits and maintenance of<br>any plant, property and equipment.   |
| 18. | Increases or Decreases in<br>Working Capital    | Total Working Capital in each yeat ("Working Capital")<br>will be as forecast by the Company (consistent with,<br>where applicable, the operating expetience of the<br>Company). For each year (the "Applicable Year") of the<br>Forecast Period until the Cash Flow Cut-Off Date,<br>increases or decreases in Working Capital are calculated<br>by subtracting Working Capital for the year immediately<br>preceding the Applicable Year from Working Capital for<br>the Applicable Year. A positive result denotes an increase<br>in Working Capital in the Applicable Year while a<br>negative result denotes a decrease in Working Capital for<br>the Applicable Year. |
| 19. | Loan Fees                                       | Commitment fees, agency fees, management fees and all<br>other fees and expenses which are payable under loan<br>documentation that shall have been entered into or which<br>could reasonably be expected to be payable in connection<br>with new debt facilities for the Company.  |

| 20. | Cash Sutplus (Cash Shottfall)                  | Result of Cash from Operations (15) minus Capital<br>Expenditutes—Sustaining (17) minus Increases of<br>Decreases in Working Capital (18) minus Loan Fees (19).<br>A positive result denotes a Cash Sutplus and a negative  |
|-----|--|---|
|     |  | tesult denotes a Cash Shottfall.  |
| 21. | Loan Repayments                                | Loan Repayments to be made in accordance with the<br>amendments made by the Fifth Supplemental Agreement.   |
| 22. | Loan Drawdowns                                 | Loan Drawdowns to be made in accordance with the amendments made by the Fifth Supplemental Agreement.   |
| 23. | Capitalized Interest                           | Capitalized Interest, if any, is interest which is not paid or<br>forecast to be paid as incurted but which is to be deferred<br>and become part of the principal of the loan to which it<br>relates and amortized in accordance with the applicable<br>repayment schedule.   |
| 24. | Cash Equity Contributions<br>from Shateholdets | Cash Equity Contributions from Shateholdets to be made<br>in accordance with the amendments made by the Fifth<br>Supplemental Agreement.  |
| 25. | Dividends or Returns of<br>Capital             | It shall be assumed for each fiscal year that any positive<br>remainder of (a) the sum of Cash Surplus (Cash Shottfall)<br>(20), plus Loan Drawdowns (22), plus Capitalized Interest<br>(23), plus Cash Equity Contributions from Shareholdets<br>(24), minus (b) Loan Repayments (21), minus Capital<br>Expenditutes—Development (16), all for such fiscal year,<br>shall be paid to the Shareholdets as a dividend of a teturn<br>of capital. This assumption shall be made only for any<br>Debt Basis Escalated Cash Flow Forecast prepared<br>putsuant to Clause 13A.5 (from which the forecast of<br>"Income Tax Payable" to be included in the telated Equity<br>Basis Real Teturs Cash Flow Forecast will be detived) and<br>not for any Debt Basis Escalated Cash Flow Forecast<br>prepared putsuant to Clause 13A.9. |
| 26. | Outstanding Debts                              | For the fitst fiscal year in the Forecast Period, Outstanding<br>Debt equals debt forecast to be outstanding as of the fitst<br>day of such fiscal year, minus Loan Repayments (21), plus<br>Loan Drawdowns (22), plus Capitalized Interest (23), all<br>as forecast to be made of to occur in such fiscal year, and<br>for each fiscal year thereafter (a "Subsequent year"),<br>Outstanding Debt equals Outstanding Debt in respect of<br>the fiscal year next preceding the Subsequent Year, minus<br>Loan Repayments (21), plus Loan Drawdowns (22), plus<br>Capitalized Interest (23), all as forecast to be made of to<br>occur in the Subsequent Year.   |

27. Notional Equity Balance

For the first fiscal year in the Fotecast Petiod, Notional Equity Balance equals Cash Equity Contributions from Shateholdets (24) [unitus Dividends of Returns of Capital (25)] forecast to be made [or paid] in such fiscal year, and for each succeeding fiscal year (a "Subsequent Year"), Notional Equity Balance equals Notional Equity Balance in respect of the fiscal year next preceding the Subsequent Year, plus Cash Equity Contributions from Shareholders (24) [, minus Dividends of Returns of Capital (25), all as] forecast to be made [or paid] in the Subsequent Year. The foregoing square bracketed items are only to be included in any Debt Basis Escalated Cash Flow Forecast prepared putsuant to Clause 13A.5 (from which the forecast of "Income Tax Payable" to be included in the related Equity Basis Real Teturs Cash Flow Forecast will be detived) and not in any Debt Basis Escalated Cash Flow Fotecast prepared putsuant to Clause 13A.9.

# SCHEDULE V

# Equity Basis Real Terms Cash Flow Forecast

| Lfne       |                           |     |     | Y | ബ | rs ( | ofi | Fo | re | cos | it P | erk | <b>d (</b> ) | Exa | mpl | e) |
|------------|---------------------------|-----|-----|---|---|------|-----|----|----|-----|------|-----|--------------|-----|-----|----|
| No.        | [ tem                     | 1   | 2   |   |   |      |     |    |    |     |      |     |              |     |     | 15 |
| 1.         | Gtoss Revenue             |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 2.         | Smelting and Refining Ch  | ıal | ge  | 5 |   |      |     |    |    |     |      |     |              |     |     |    |
| 3.         | Ditect Charges to Sales   |     | °   |   |   |      |     |    |    |     |      |     |              |     |     |    |
| <b>+</b> . | FOB Revenue               |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 5.         | Operating Costs           |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 6.         | Minetal Royalties         |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 7.         | Selling, Genetal and      |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
|            | Administrative Expenses   |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 8.         | Net Trading Margin        |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 9.         | Roadco Payment            |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 10.        | Income Tax Expense        |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 11.        | Net Cash Income           |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 12.        | Capital Expenditutes      |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 13.        | Increases of Decreases in |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
|            | Working Capital           |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 14.        | Annual Cash Flow          |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 15.        | Withholding Tax           |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 16.        | Net Cash Flow             |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 17.        | Net Present Value of Net  | Ca  | ısh | I |   |      |     |    |    |     |      |     |              |     |     |    |
|            | Flow for Each Year        |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |
| 10         |                           |     |     |   |   |      |     |    |    |     |      |     |              |     |     |    |

 Net Present Value for Forecast Petiod:

| Line<br>No. | liem                             | Explanation  |
|-------------|----------------------------------|--|
| 1.          | Gtoss Revenue                    | The sum of all gross sales of (a) gold,<br>silver and copper whether sold as metals<br>or as metals contained in concentrates,<br>(b) molybdenum whether sold as<br>metal contained in concentrates or in<br>molybdenum oxide and (c) any other<br>product sales. Unit sales volumes in (a),<br>(b) and (c) above will be consistent with<br>the operating plan and the mining plan of<br>the Company relating to the Expanded<br>Copper Facility or the Single Copper<br>Line, as applicable, in respect of which<br>the Equity Basis Real Teturs Cash Flow<br>Forecast is prepated. In forecasting<br>Gross Revenue, the forecast metal<br>prices determined in accordance with<br>Clause 13A.7(b) (i) will be used. |
| 2.          | Smelting and Refining<br>Charges | <ul> <li>All charges of other adjustments to convert gold, silver, copper, molybdenum and any other minetals (whether contained in metallic form or in concentrates or any other form) into products sold as referred to in Gross Revenue (1). The Company's forecast of Smelting and Refining Charges will:</li> <li>(a) be consistent with any contracts that the Company shall have entered into or that the Company shall assume to be entered into for the purposes of the Equity Basis Real Terms Cash Flow Forecast, together with any relevant operating experience of the Company; and</li> <li>(b) be adjusted to reflect discounts or</li> </ul>  |
| 3.          | Direct Charges to Sales          | pterminums in tespect of product sales.<br>All freight, insutance and other charges<br>to sales, as forecast by the Company,<br>which forecast will be consistent with<br>any contracts that shall have been<br>entered into or are assumed by the<br>Company to be entered into for the<br>putposes of the Equity Basis Real<br>Terms Cash Flow Forecast,<br>together with any relevant operating<br>experience of the Company.   |

# EQUITY BASIS REAL TERMS CASH FLOW FORECAST

| 4.  | FOB Revenue  | Result of Gloss Revenue (1) minus<br>Smelling and Refining Charges (2) minus<br>Direct Charges to Sales (3).   |
|-----|--|--|
| 5.  | Operating Costs                                    | As defined in Clause 1 and determined in accordance with Clause 13A.7(b)(ii).  |
| 6.  | Minetal Royalties                                  | All toyalties payable by the Company, as forecast by the Company.  |
| 7.  | Selling, Genetal and<br>Administrative<br>Expenses | All expenses excluding Operating Costs<br>(5), Minetal Royalties (6),<br>Roadco Payment (9), Income Taπ<br>Eπpense (10) and deptectation,<br>amottization and other non-cash charges.  |
| 8.  | Net Trading Matgin                                 | Result of FOB Revenue (4) minus<br>Operating Costs (5) minus Minetal<br>Royalties (6) minus Selling, Genetal and<br>Administrative Expenses (7).   |
| 9.  | Roadco Payment                                     | Costs attributable to the user charge<br>payable under the Infrastructure<br>Agreement, determined in accordance<br>with the Infrastructure Agreement and<br>any applicable assumptions contained<br>in the amendments made by the Fifth<br>Supplemental Agreement, and de-esca<br>-lated in accordance with Clause<br>13A.7(b)(ii).   |
| 10. | Income Tax Expense                                 | Income taxes calculated in accordance with Clause $13A.5(c)$ .   |
| 11. | Net Cash Income                                    | Result of Net Trading Margin (8)<br>minus Roadco Payment (9) minus<br>Income Tax Expense (10).   |
| 12. | Capital Expenditutes                               | As defined in Clause 1 and determined in accordance with Clause 13A.7(b)(ii).  |
| 13. | Increases of Decreases<br>in Working Capital       | Total working capital in each yeat<br>("Working Capital") will be as forecast by<br>the Company (consistent with, where<br>applicable, the operating<br>experience of the Company). For each<br>year (the "Applicable Year") of the<br>Forecast Period until the Cash Flow<br>Cut-Off Date, increases or decreases in<br>Working Capital are calculated by sub<br>-tracting Working Capital for the year<br>immediately preceding the Applicable<br>Year from Working Capital for the<br>Applicable Year. A positive result<br>denotes an increase in Working Capital<br>in the Applicable Year while a negative<br>result denotes a decrease in Working |

| 14. | Annual Cash Flow                                       | Capital for the Applicable Yeat.<br>Net Cash Income (11) minus Capital<br>Expenditutes (12) minus Increases of<br>Decreases in Working Capital (13).   |
|-----|--|--|
| 15. | Withholdi ng Tax                                       | Zeto whete Annual Cash Flow (14) is<br>a negative number. Whete Annual Cash<br>Flow (14) is a positive number, With-<br>holding Tax is the product of Annual<br>Cash Flow (14) multiplied by the<br>tate (expressed as a decimal) at which<br>dividends payable by the Company (to<br>shateholdets of the Company that are<br>non-tesidents of Papua New Guinea)<br>ate subject to Withholding Tax in<br>accordance with Clause 23.9.                                      |
| 16. | Net Cash Flow  | Result of Annual Cash Flow (14) minus<br>Withholding Tax (15).   |
| 17. | Net Present Value of<br>Net Cash Flow<br>for Each Year | The product of Net Cash Flow (16)<br>times the arithmetical average of the<br>amounts determined under (a) and (b)<br>below:<br>(a) e-i(n-1) [1-e <sup>-i</sup> ]  |
|     |  | i  |
|     |  | where:   |
|     |  | n = the tespective year of the Forecast  |
|     |  | <ul> <li>Petiod to which the Net Cash</li> <li>Flow (16) telates. For example,</li> <li>if the Forecast Petiod were to</li> <li>commence in the year 1987, then,</li> <li>in calculating the Net Present Value</li> <li>of Net Cash Flow for 1987, n</li> <li>would equal 1; for 1988 n would</li> <li>equal 2; and so forth.</li> <li>i = 14%, the annual discount rate.</li> <li>e = the base of the natural logarithm</li> <li>system having the approximate</li> </ul> |
|     |  | <ul> <li>Flow (16) telates. For example, if the Forecast Period were to commence in the year 1987, then, in calculating the Net Present Value of Net Cash Flow for 1987, n would equal 1; for 1988 n would equal 2; and so forth.</li> <li>i = 14%, the annual discount rate.</li> <li>e = the base of the natural logarithm system having the approximate value of 2.71828; and</li> </ul>  |
|     |  | <ul> <li>Flow (16) telates. For example, if the Forecast Period were to commence in the year 1987, then, in calculating the Net Present Value of Net Cash Flow for 1987, h would equal 1; for 1988 h would equal 2; and so forth.</li> <li>i = 14%, the annual discount rate.</li> <li>e = the base of the natural logarithm system having the approximate value of 2.71828; and</li> <li>(b) (1+i)<sup>(1/2-h)</sup></li> </ul>   |
|     |  | <ul> <li>Flow (16) telates. For example, if the Forecast Period were to commence in the year 1987, then, in calculating the Net Present Value of Net Cash Flow for 1987, n would equal 1; for 1988 n would equal 2; and so forth.</li> <li>i = 14%, the annual discount rate.</li> <li>e = the base of the natural logarithm system having the approximate value of 2.71828; and</li> <li>(b) (1+i)<sup>(1/2-h)</sup> where:</li> </ul>                                    |
|     |  | <ul> <li>Flow (16) telates. For example, if the Forecast Period were to commence in the year 1987, then, in calculating the Net Present Value of Net Cash Flow for 1987, h would equal 1; for 1988 h would equal 2; and so forth.</li> <li>i = 14%, the annual discount rate.</li> <li>e = the base of the natural logarithm system having the approximate value of 2.71828; and</li> <li>(b) (1+i)<sup>(1/2-h)</sup></li> </ul>   |

# SCHEDULE VI

# Net Present Cost Derivation

| Line            | _  | Yeats of Forecast Petiod (Example)  |
|-----------------|--|---|
| No.             | ltem 1   | 2 3 4 5 6 7 8 9 10 11 12 13 14 15   |
| 1.              | Power Operating Expenses                                 |   |
| 2.              | Depreciating, Amortization and<br>Other Non-Cash Charges |   |
| 3.              | Power Expenses Before Income                             |   |
| <b>+</b> .      | Tan Adjustiment<br>Income Tan Enpense Effect             |   |
| <b>+</b> .      | Attributable to Power                                    |   |
| 5.              | Power Expense Adjusted for                               |   |
|                 | Талез  |   |
| 6.              | Operating Cost of Power                                  |   |
| 7.              | Capital Expenditutes Attributab<br>to Power              | le  |
| 8.              | Net Power Cost   |   |
| 9.              | Net Present Cost for Each Year                           |   |
| 10.             | Net Present Cost for Forecast                            |   |
|                 | Petiod:  |   |
|                 | NET PRESEN   | T COST DERIVATION   |
| liem            |  | Explanation   |
| Power           | : Operating Expenses                                     | All operating expenses, determined in<br>accordance with generally accepted<br>accounting principles in Papua New<br>Guinea, relating to operation of power<br>(increased by Contingency Amounts<br>determined in accordance with Clause<br>13A.5(d)(ii) excluding Depreciation,<br>Amortization and Other Non-Cash<br>Charges (2).   |
|                 | ciation, Amortization and<br>Non-Cash Charges            | Non-cash expenses attributable to<br>power, determined in a manner not<br>inconsistent with Papua New Guinea<br>tax law, provided that in determining<br>for any fiscal year the amount of dep<br>-teciation expense in respect of any<br>Capital Expenditutes Attributable to<br>Power (7), a useful life of 5 years shall<br>be assumed and such depreciation<br>expense shall be calculated on a<br>straight-line basis. |
| Powet<br>Adjust | Expenses Before Income Tax<br>liment                     | Sum of Power Operating<br>Expenses (1) plus Depreciation,<br>Amottization and Other Non-Cash<br>Charges (2).  |

| Income Tax Expense Effect<br>Attributable to Power | The product of Power Expenses Before<br>Income Tax Adjustment (3) times<br>30%.   |
|--|---|
| Power Expense Adjusted for Taxes                   | Result of Power Expenses Before<br>Income Tax Adjustment (3) minus<br>Income Tax Expense Effect Attributable<br>to Power (4).   |
| Operating Cost of Power                            | Powet Expense Adjusted for Taxes (5)<br>minus Depteciation, Amottization and<br>Other Non-Cash Chatges (2).   |
| Capital Expenditures Attributable<br>to Power      | All Capital Expenditures (as defined in<br>Clause 1 and determined in accordance<br>with Clause 13A.5(d)(ii)) attributable to<br>power.   |
| Net Power Cost                                     | Sum of Operating Cost of Power (6)<br>plus Capital Expenditutes Attributable<br>to Power (7).   |
| Net Present Cost for Each Year                     | The product of Net Power Cost (8)<br>times the atithmetical average of the<br>amounts determined under (a) and (b)<br>below:  |
|  | (a) $e^{-i(n-1)} [1-e^{-i}]$  |
|  |   |
|  | i   |
|  | whete:<br>n = the respective year of the Fore<br>-cast Period to which the Net<br>Power Cost (8) relates. For<br>example, if the Forecast Period<br>were to commence in the year<br>1987, then, in calculating the Net<br>Power Cost for 1987, n would<br>equal 1; for 1988 n would equal<br>2; and so forth. |
|  | i = 14%, the annual discount tate.  |
|  | e = the base of the natural logarithm<br>system having the approximate<br>value of 2.71828; and   |
|  | (b) (1+i) <sup>(1/2-n)</sup>  |
|  | whete:<br>h and i ate the amounts set forth in (a)<br>above   |
| Net Present Cost for Forecast Petiod               | As defined in Clause 1.   |

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