

DESA

REPUBLIC OF PARAGUAY
ANNUAL REQUESTS FOR TECHNICAL ASSISTANCE

11 JAN 1973 - 3 OCT 1978

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COMMUNICATION FROM: Krishan G. Singh

Date: July 29-76

Reference: _____

Addressed to: _____

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Date: Aug. 3-76

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COMMUNICATION FROM: UNDP/ Paraguay

Date: 13 8 74

Reference: 2115 encl

Addressed to: D Jera Koye

FILE NUMBER: TE 311/1 Parag

Part _____

CCF or FD No. 8-464

Cross-References: _____

CHARGED TO: D Jera Koye

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ORIGINAL DIRECT

TE 344/1 PARA 4

3 October 1978

RECORDS CONTROL

16 OCT 1978

Estimado Sr. Singh,

Re: Desarrollo Rural, Itapúa (PAR/77/004)

Me es muy grato acusar recibo de su carta ref. 2158 del 14 de septiembre dirigida al Sr. Luis M. Gomez del PNUD, junto con la cual enviara copia del documento del proyecto sobre un programa de desarrollo rural en Paraguay que ha sido asignado al Banco Mundial para su ejecución.

Encontramos muy interesante la política que piensa seguir el Banco para asistir al proyecto en referencia. En consecuencia quisiéramos recibir copia de los informes que se preparen bajo este proyecto. Esta información podría ser muy útil en nuestros esfuerzos para desarrollar métodos para integrar orientaciones en el campo del desarrollo rural y dar asistencia técnica.

Le saluda muy atentamente.

Jan H. van Heerden, Jefe
Sección para Sudamérica
Subdirección de las Américas
Departamento de Cooperación Técnica
para el Desarrollo

Mr. K.G. Singh
Representante Residente
PNUD
Asuncion, Paraguay



PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO

ASUNCION • PARAGUAY

RECEIVED

Ref.: 2158
PAR/77/004

SEP 26 1978

SOUTH AMERICA SECTION
THE AMERICAS BRANCH
OTC

14 de setiembre de 1978

27 SEP 1978

TE 321/1 PARAS

Estimado señor Gómez:

Asunto: "Desarrollo Rural, Itapúa" (PAR/77/004)

Me es muy grato informar a usted que en el día de la fecha, y tal como se lo adelantara por cable, ha tenido lugar la ceremonia de suscripción del documento del proyecto arriba mencionado, ante la presencia de numerosas autoridades de Gobierno y representantes de la prensa local.

..... Adjunto se servirá encontrar un ejemplar debidamente firmado de dicho documento y una copia adicional, así como el "Fact Sheet" correspondiente. Estamos enviando copia de esta comunicación y de su anexo al señor L. Shapiro de MIS y al señor F. Burns de OCT.

Se ha aprovechado de la presencia del señor Franco Lucca del BIRF para adelantar las gestiones necesarias para iniciar las operaciones del proyecto a la mayor brevedad posible. El Consejo Nacional de Progreso Social ha anticipado la aprobación de las candidaturas de los señores M. Villarini y T. Hattori para los puestos de Asesor Técnico Principal y Agrónomo, respectivamente. El BIRF tiene intenciones de acelerar la contratación del Sr. Villarini, de tal modo que pueda iniciar su misión a mediados de octubre próximo.

Asimismo, se ha visitado la zona del proyecto en los últimos días para ultimar las gestiones necesarias para la adjudicación de los terrenos y la construcción de la vivienda para los asesores y de los centros comunitarios.

Muy atentamente,

Krishan G. Singh
Representante Residente del Programa
de las Naciones Unidas para el Desarrollo
en Paraguay

Señor Luis María Gómez, Jefe
División de Programas Nacionales
UNDP, New York

La Conferencia de las Naciones Unidas sobre Cooperación Técnica entre Países en Desarrollo (CTPD)

tendrá lugar en agosto/septiembre en Buenos Aires

"Una oportunidad para que la comunidad mundial ayude a liberar la capacidad creadora latente de 2.000 millones de personas"
(de la Declaración de Kuwait sobre CTPD, 5 de junio de 1977)



Mr. Velázquez

*Programa de las Naciones Unidas para el
Desarrollo en el Paraguay*

RECEIVED

AUR.

JUL 3 1978

THE AMERICAS BRANCH
OTC

RECEIVED

JUN 30 1978

Director OTC

Mr. Kern

*Con los atentos saludos del
Representante Residente*

T2 311/1 Paraguay.

RECORDS CONTROL

PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO

12 JUL 1978

12 JUL 1978

P A R A G U A Y

INFORME ANUAL SOBRE COOPERACION PARA EL DESARROLLO

1977

Asunción, Paraguay
Mayo de 1978

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PREFACIO

Como en años anteriores es grato para la Representación del Programa de las Naciones Unidas para el Desarrollo (PNUD) en el Paraguay hacer entrega de un documento resumen con antecedentes sobre la cooperación técnica y financiera que, durante el año 1977, ha sido entregada por distintas fuentes externas al Gobierno del Paraguay.

La Representación del PNUD desea agradecer a las Embajadas acreditadas ante el Gobierno del Paraguay y a las Representaciones y Misiones Técnicas de Organismos Bilaterales y Multilaterales por los antecedentes entregados sobre las actividades en el año 1977. Sin tal información la preparación de este informe no hubiere sido posible.

Al preparar este documento se ha pretendido recoger y clasificar la información disponible sobre cooperación internacional por sectores. en el caso de la cooperación técnica se identifica cada actividad, se señala la fuente que prestó la asistencia, se indica, cuando se dispone de los datos, una estimación del costo en dólares de los EE.UU. asignado en 1977 a cada proyecto y se proporciona información sobre la duración y naturaleza de cada acción. En relación con las cifras sobre costos, se entregan las proporcionadas por cada fuente asistencial. El cuadro resumen con datos financieros por fuente incluye, por tanto, los antecedentes con los que cuenta la Representación. El total de la cooperación técnica recibida por el Paraguay podrá ser mayor.

Este resumen incluye información sobre la cooperación de fuentes multilaterales (sistema de las Naciones Unidas incluido el Banco Internacional de Reconstrucción y Fomento, Banco Interamericano de Desarrollo, Instituto Interamericano de Ciencias Agrícolas y Organización de los Estados Americanos), y sobre fuentes bilaterales (Gobierno de Alemania Federal, Argentina, Bélgica, España, Estados Unidos de Norteamérica, Agencia para el Desarrollo Internacional y Cuerpo de Paz, Francia, Reino Unido de Gran Bretaña e Irlanda del Norte, Italia, Israel, Japón, Países Bajos, Sudáfrica, Suiza y Venezuela). En sus respuestas a la Representación del PNUD, algunas Embajadas señalaron que su contribución se canalizaba a través de organismos multilaterales.

En la preparación del documento pueden haberse deslizado errores, omisiones y/o exageraciones. Junto con solicitar la comprensión de quienes examinen este informe, por sus eventuales errores, rogamos que éstos sean puestos en conocimiento de la Representación del PNUD en Asunción para la introducción de las modificaciones que fueren necesarias.

Asunción, Junio de 1978

LISTA DE SIGLAS UTILIZADAS EN ESTE INFORME

AIF	Asociación Internacional de Fomento del Banco Mundial
ANNP	Administración Nacional de Navegación y Puertos
ANDE	Administración Nacional de Electricidad
ANTELCO	Administración Nacional de Telecomunicaciones
BID	Banco Interamericano de Desarrollo
BIRF	Banco Internacional de Reconstrucción y Fomento (Banco Mundial)
BCP	Banco Central del Paraguay
BNF	Banco Nacional de Fomento
CELADE	Centro Latinoamericano de Demografía
CEPAL	Comisión Económica para América Latina (de Naciones Unidas)
CEPEX	Centro de Promoción de las Exportaciones del Ministerio de Industria y Comercio
CINTERFOR	Centro Interamericano de Investigación y Documentación sobre Formación Profesional de PNUD y OIT
CIAT	Centro Interamericano de Administración del Trabajo del PNUD y OIT
CIP	Cifra Indicativa de Planificación (PNUD)
CNEA	Comisión Nacional de Energía Atómica
CNPS	Consejo Nacional de Progreso Social
CONEB	Consejo Nacional de Entidades de Beneficencia
CREDICOOP	Cooperativas de Créditos (proyecto con apoyo de USAID)
CREFAL	Centro Regional de Educación de Adultos y Alfabetización Funcional para América Latina
d/h	días/hombre
DSE	Fundación Alemana para el Desarrollo
FAO	Organización de las Naciones Unidas para la Agricultura y la Alimentación
FSB	Fondo Simón Bolívar (Gobierno de Venezuela)
FEPRINCO	Federación de la Producción, la Industria y el Comercio
GATT	Acuerdo General sobre Tarifas y Comercio

HELVETAS	Asociación Suiza de Asistencia Técnica
IERH	Instituto para el Estudio de la Reproducción Humana
IICA	Instituto Interamericano de Ciencias Agrícolas de la OEA
INT	Proyecto Interregional del PNUD
IPS	Instituto de Previsión Social del Ministerio de Salud Pública y Bienestar Social
MAG	Ministerio de Agricultura y Ganadería
m/h	meses/hombre
MDN	Ministerio de Defensa Nacional
MJT	Ministerio de Justicia y Trabajo
MSPyBS	Ministerio de Salud Pública y Bienestar Social
MEyC	Ministerio de Educación y Culto
NU	Naciones Unidas
OACI	Organización de la Aviación Civil Internacional
OTC	Oficina de Cooperación Técnica de las Naciones Unidas
OEA	Organización de los Estados Americanos
OIT	Organización Internacional del Trabajo
OMM	Organización Meteorológica Mundial
OMS	Organización Mundial de la Salud
ONP	Oficina Nacional de Proyectos
ONUOI	Organización de las Naciones Unidas para el Desarrollo Industrial
OPS	Oficina Panamericana de la Salud
PAEN	Programa de Alimentación y Educación Nutricional
PAR	Paraguay
PMA	Programa Mundial de Alimentos de NU y FAO
PNUMA	Programa de las Naciones Unidas para el Medio Ambiente
PNUD	Programa de las Naciones Unidas para el Desarrollo
PREALC	Programa Regional de Empleo para América Latina y el Caribe del PNUD y OIT
RLA	Proyecto Regional para América Latina y el Caribe (PNUD)

SEAG	Servicio de Extensión Agrícola y Ganadera del MAG
SENALFA	Servicio Nacional de Lucha contra la Fiebre Aftosa (MAG)
SENASA	Servicio Nacional de Saneamiento Ambiental (MSPyBS)
SFN	Servicio Forestal Nacional (MAG)
SIDA	Autoridad Sueca para el Desarrollo Internacional
SIS	Servicios Industriales Especiales (Programa del PNUD y ONUDI)
STP	Secretaría Técnica de Planificación de la Presidencia de la República
UIT	Unión Internacional de Telecomunicaciones
UNA	Universidad Nacional de Asunción
UNCTAD	Conferencia de las Naciones Unidas para el Comercio y el Desarrollo
UNESCO	Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura
UNFPA	Fondo de las Naciones Unidas para Actividades de Población
UNICEF	Fondo de las Naciones Unidas para la Infancia

R E S U M E N

La tendencia observada ya en años anteriores, del aumento de las actividades nacionales de desarrollo se refleja nuevamente en este resumen sobre cooperación externa para el año 1977 al notarse incrementos tanto en el volumen de las operaciones realizadas o comprometidas, como en los aportes recibidos para la materialización de los proyectos identificados.

Conforme con la política nacional de desarrollo, explícita en el Plan Nacional de Desarrollo Económico y Social 1977-1981, la cooperación externa se ha concentrado en servir a proyectos que dicen relación con los esfuerzos nacionales por mejorar la infraestructura, con aumentar la participación del sector rural y en la economía nacional y con la orientación de la promoción de exportaciones, en cada uno de los sectores que identifica el informe anexo.

Aun cuando el aporte del sistema de las Naciones Unidas para el Paraguay se mantuvo en términos cuantitativos similar al de años anteriores, el aporte del PNUD disminuyó con respecto a los años 1975 y 1976. Ello se debió en gran medida a que 1977 fue considerado como un "año puente" entre el Ciclo de Programación que cubrió los años 1972-1976 y el Segundo Programa Nacional de Cooperación Técnica del PNUD que cubrirá los años 1978-1981. Tal Programa fue sometido por el Gobierno al PNUD a mediados de 1977 y aprobado por el Consejo de Administración del Programa en su reunión especial de enero de 1978.

En la parte B de este informe se incluye la información sobre nuevos préstamos contratados en 1977. Tal información deberá leerse en conjunto con la proporcionada en los informes de los años anteriores.

COOPERACION TECNICA FINANCIADA EXTERNAMENTE EN EL PARAGUAY, 1977

FUENTE DE FINANCIACION

Sector	PNUD		Sistema de NU fuera del PNUD		Otras organizaciones multilaterales		Otras ^{1/}		TOTAL	
	\$000	%	\$000	%	\$000	%	\$000	%	\$000	%
05.Agric., Silvíc., Pesca y Ganadería	340.606	8.63	70.394	1.78	710.092	18	2.824.901	71.59	3.945.993	100
10.Cultura y Ciencias So- ciales y Humanas.	--	--	3.780	24.50	11.650	75.50	--	--	15.430	100
15.Educación	--	--	29.336	2.93	337.938	33.72	634.919	63.35	1.002.193	100
20.Política y Planifica- ción Econ.y Social Gral.	217.528	29.79	62.728	8.59	277.000	37.93	172.990	23.69	730.246	100
25.Salud	--	--	691.437	47.63	239.000	16.47	521.119	35.90	1.451.556	100
35.Industrias	--	--	35.751	22.89	75.500	48.33	44.957	28.78	156.208	100
40.Comercio Internacional	--	--	45.169	56.48	23.100	28.88	11.706	14.64	79.975	100
45.Mano de Obra, Adm.de Empresas y Empleo.	190.317	28.44	--	--	54.200	8.10	424.761	63.47	669.278	100
50.Recursos Naturales	99.598	42.82	125.000	53.74	8.000	3.44	--	--	232.598	100
55.Población	--	--	20.892	8.64	--	--	221.000	91.36	241.892	100
65.Ciencia y Tecnología	--	--	51.717	40.54	58.000	45.47	17.844	13.99	127.561	100
70.Servicios Sociales	--	--	769.017	56.03	4.600	0.34	598.867	43.63	1.372.484	100
75.Transporte y Comunic.	145.715	2.83	18.266	0.35	256.000	4.97	4.725.985	91.84	5.145.966	100
Totales por fuente de financiación.	993.764	6.55	1.923.487	12.68	2.055.080	13.55	10.199.049	67.23	15.171.380	100

1/ Programas bilaterales y actividades de fundaciones y organizaciones no gubernamentales.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Agricultura, Silvicultura, Pesca y Ganadería

Código: 05

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Desarrollo Forestal.	PNUD/FAO ^{1/} PAR/72/001	132.761	1973 - 1977	Asistencia en expertos, becas y equipos (incluyendo aportes al Convenio de Educación Superior entre la UNA y la Universidad de Chile) para apoyar el desarrollo del sector forestal.
Pequeñas Empresas Agrícolas.	PNUD/BIRF PAR/74/002	156.804	1975 - 1978	Asistencia técnica a 2.000 granjas en colonias del Eje Este. Completar su infraestructura dotándola de caminos, escuelas, centros de salud y otros servicios. Asesorar a los agricultores en el manejo de granjas y en la administración de los créditos proporcionados con fondos del BIRF/AIF.
Desarrollo Regional Integrado, Chaco	PNUD/OPB PAR/75/002	51.041	1976 - 1980	Expertos subcontratos y equipos para realizar un estudio de prefactibilidad económica en un sector del noroeste del Chaco Paraguayo.
Entrenamiento en inversiones para el sector forestal.	FAO (PCT) 6/PAR/02/T	8.000	XI/1977 - XI/1978	Prestar asistencia al SPN en las labores previas de identificación jerárquica de proyectos de inversión. Un asesor.
Evaluación del desarrollo agrícola y reforma agraria.	FAO	10.000	1977	Servicios de consultoría para el MAG y el IBR.
129 Curso FAO/SIDA para postgraduados sobre reproducción animal.	FAO/SIDA	5.178	2/III - 30/XI/1977	Beca concedida en este campo al Sr. Alberto Oka Cbara. Uppsala, Suecia.
1er. Curso subregional producción lechera.	FAO	1.532	31/X - 10/XII/1977	Dos becas concedidas a los señores Pedro Chilavert y Margarita Aguilera. Montevideo, Uruguay.
<p>1/ Este proyecto recibió aportes adicionales de US\$ 150.000 del Gobierno de Suiza y es complementario con el proyecto de Suiza para la Escuela de Técnicos Forestales en Pto. Pte. Stroessner, en relación con el convenio educacional para la formación superior e investigación forestal. La asistencia del PNUD se complementó con aportes de OEA, IICA y del Gobierno de Suiza.</p>				

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Agricultura, Silvicultura, Pesca y Ganadería.Código: 05

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Reorganización institucional del Crédito Agrícola de Habilidadación y estudios de créditos agrícolas.	BID (no reembolsable) A/N/TF(SP) 1516-PR	497.500	1/1977-1/1979	Programa que incluye: a) reorganización institucional del Crédito Agrícola de Habilidadación(CAH); b)preparación de estudios de factibilidad de: proyecto global de crédito agrícola de habilitación para pequeños agricultores; proyecto global de crédito para reforestación; y alternativas técnicas y económicas para habilitación de tierras (desmonte y des-tronque). Expertos 62 m/h.
Apoyo a la STP y al MAG en proyectos de desarrollo agrícola regional.	IICA	18.000	1977-1978	Asesoría en estudio de políticas en organización de oficinas de planificación de instituciones del sector y formulación de diagnósticos y planes sectoriales; y asesoría en la elaboración del diagnóstico y plan operativo para Itapúa, Paraguari y Cordillera.
Empresas Asociativas con Conscriptos de las Fuerzas Armadas.	FSB (IICA) Fondo Simón Bolívar(Venezuela)	39.550	1977-1978	Asesoría y ejecución de los trabajos relacionados a la implantación y desarrollo de empresas asociativas con conscriptos de las Fuerzas Armadas en Canendiyú.
Estudio del Desarrollo y de los Organismos Agrícolas	IICA	2.500	1977-1978	Análisis del Desarrollo sectorial y de las instituciones responsables a efectos de la programación operativa del IICA en Paraguay.
Apoyo al Subsistema Nacional de Información Agropecuaria y Forestal.	IICA	2.542	1977-1978	Colaboración en la organización y funcionamiento del subsistema nacional de información y documentación agropecuaria y forestal.
Apoyo a la Organización Planeamiento y Operación del Subsistema Educativo Agropecuario y Forestal.	IICA	13.000	1977-1978	Asesoría en estudios de perfiles y roles de técnicos requeridos para el sector agropecuario y forestal y a la organización de la Enseñanza Media y Superior Agropecuaria.
Apoyo a la Organización y Administración de la Investigación Agropecuaria.	IICA	7.000	1977-1978	Asesoría en el diagnóstico de la investigación en la creación de un sistema de programación.
Fortalecimiento de organismos de comercialización en Paraguay.	IICA	2.000	1977-1978	Asesoría en sistemas de información de precios y mercados y en el establecimiento de mecanismos para la comercialización de pequeños productores.
Par-3100, Salud Pública Veterinaria.	BID - OPS	101.300 (1977-1978)	1968 - 1980	Asistencia Técnica: Consultores a Corto Plazo, 19 meses. Servicios por contrata: US\$ 12.295.00. Suministros y equipo: US\$ 7.500.00. Costo de apoyo al Programa: US\$ 13.460.00.
Par-3200, Control de la Fiebre Aftosa.	OPS - PR	45.684	1967 - 1980	Asistencia Técnica: 1 Consultor permanente (12 meses). Suministros y equipo: US\$ 2.634.00.-

Proyectos y Actividades de Cooperación Técnica Externa en 1977

(1)
Sector: Agricultura, Silvicultura, Pesca y Ganadería(1)
Código: 05

(2) Título de la actividad o proyecto	(3) Fuente de la asistencia	(4) Asistencia asignada en 1977 (Costo en US\$)	(5) Duración de la actividad o proyecto (fecha de comienzo y término)	(6) Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Enseñanza e Investigación en la Producción Leche- ra.	OEA	12.000	Hasta diciembre 1979	Establecimiento del Laboratorio Lactológico y capacitación de personal. Equipos y becas. Facultad de Ciencias Veterina- rias, Universidad Nacional de Asunción.
Desarrollo Forestal Proyecto de Cooperación Internacional.	OEA	2.700	Hasta diciembre 1981	Apoyar a la Orientación Forestal de la Facultad de Ingeniería Agronómica de la Universidad Nacional de Asunción y al Ser- vicio Forestal Nacional, en la capacitación de personal. Esta cooperación se realiza en forma combinada con las que a su vez brindan el PNUD, la FAO, la COTESU y el IICA. Se otorgaron 9 pasajes para estudios y pasan- tías en Chile.
Estudio de Algunos Aspec- tos Forestales.	OEA	12.000	Hasta diciembre 1977	Estudio básico de especies forestales autóctonas. Inves- tigadores nacionales, equipo y gastos operativos. En Asunción y en el Chaco. Instituto de Ciencias Básicas de la Univer- sidad Nacional de Asunción.
Asesores para el Pro- yecto de Desarrollo Agrícola en la región Eje Norte.	Rep. Federal de Alemania	136.360	1976-1979	Programa de desarrollo agrícola. (3 expertos)
Asesores para el pro- yecto de desarrollo agrícola de la región de Itapúa.	Rep. Federal de Alemania	142.835	1973-1977	Programa de desarrollo agrícola y veterinario. (2 expertos)
Cooperación Agrícola	Argentina	49.000	Permanente	Misión técnica Argentina encargada de la Asistencia Técnica que presta este país al MAG y otros organismos.
Colaboración viaje a la Rca. Argentina de alumnos Facultad Ing. Agronómica y Escuela Agrícola "Carlos Pfannl"	Argentina	5.700	20/VII-19/VIII/1977	Visitas al Instituto Nacional de Tecnología Agraria, alojamiento, etc. y visita a la Exposición Rural de Palermo (Bs.As.)
Almacenamiento de gra- nos y Desarrollo Ovino.	Argentina	450.000	1977	Donación de 4.000 toneladas de trigo para proyectos de desarrollo.
Proyecto El Gran Chaco	"Entraide et Fraternité" organismo no- gubernamental Proyecto co- financiado por Bélgica.	104.676	1976-1978	Formación profesional y agrícola en el Chaco Paraguayo.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Agricultura, Silvicultura, Pesca y Ganadería

Código: 05

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Convenio Básico de Asistencia Técnica	España	40.000	X/1975-XI/1977	Asesoría de un experto a la Direc- ción General de Cooperativismo del MAG.
Mejoramiento del cultivo del Algodón	Francia	49.000	Desde 1967	Asesoría de un técnico del Insti- tuto de investigaciones sobre el algodón y Fibras Tropicales (IRCT). Dos misiones de 1 mes cada una compuestas por especialistas del IRCT en entomología. 3 becas de un año a Francia y Africa.
Palma aceitera	Francia	3.000	sin datos	1 beca
Medicina Veterinaria	Francia	65.500	Desde 1973	4 misiones especializadas en: - parasitología (2 meses) - industrialización de carne (2 semanas) - nutrición animal (2 semanas) - fisiología (2 semanas) 7 becas Libros y documentaciones.
Mecanización agrícola	Francia	4.000	sin datos	Misión de un experto
Laboratorio de Diag- nóstico e Investiga- ción Veterinaria.	Gran Bretaña	30.000	I/1973-I-1978	Envío de asesores, técnicos, equipos, vehículos y capacitación de contrapartes para el SEAG.
Programa de mejoramien- to del Cultivo de la Caña de Azúcar.	Gran Bretaña	30.000	1977-1979	Un asesor, equipos, vehículos al SEAG de Villarrica, Tebicuary, Benjamín Aceval y Guaranbaré
Programa de mejora- miento del cultivo del tabaco.	Gran Bretaña	30.000	1977-1979	Un asesor, equipos, vehículos al Instituto Agronómico Nacional de Caacupé.
Programa de Extensión Agrícola.	Gran Bretaña	25.000 (estimativo)	1977-1979	Un experto, vehículos al SEAG de San Lorenzo.
Programa de aceites esenciales.	Gran Bretaña		1975-1978	Provisión de un técnico, equipo, transporte, insumos, gastos locales para el Instituto Nac. de Tecnolo- gía y Normalización y Colonia Fulgencio Yegros.
Unidad veterinaria de diagnóstico e inves- tigación.	Gran Bretaña		1976-1979	Provisión de cuatro técnicos, 2 asesores, equipos, transporte, insumos, gastos locales y becas para contraparte. Local del Ser- vicio de Extensión Agrícola (SEAG).
Programa de investiga- ción y control de las hormigas cortado- ras.	Gran Bretaña		1976-1978	Provisión de un técnico, equipo, transporte, gastos locales y becas para contraparte. SEAG.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Agricultura, Silvicultura, Pesca y Ganadería.

Código: 05

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Apicultura	Japón	62.791	III/1976-III-1978	Experto en apicultura para la Facultad de Ing. Agronómica de la UNA. y equipos.
Planificación Agrícola	Japón	49.488	III/1976-III-1979	Experto en planificación agrícola para asesorar a la Oficina Nacional de Proyecto; libros y materiales.
Fruticultura	Japón	48.000	I/1977-I/1979	Experto en fruticultura para el Eje Norte de Colonización del Paraguay (Choré)
Desarrollo agrícola	Japón	840	19/IX-22/IX/1977	Misión formada por dos expertos para tomar conocimiento de las importantes obras de desarrollo agrícola del país y realizar visitas a las Colonias Japonesas.
Desarrollo de los recursos agropecuario y forestal	Japón	5.460	9/X-22/X/1977	Misión formada por tres investigadores japoneses para realizar estudios agropecuarios y forestales en el país
Desarrollo agropecuario y forestal	Japón	29.000	13/X-19/XI/1977	Misión de estudio previo para desarrollo agropecuario y forestal en zona de tierra colorada formada por 11 investigadores.
Apicultura Científica	Japón	10.946	12/V /1977 al 11/V/1978	Beca en este campo al Ing. Agr. Mario R. QUILONEZ del MAG.
Cooperativas Agrícolas	Japón	6.290	29/IX al 20/XII/1977	Beca en este campo al Sr. Albino F. Martínez del MAG.
Apicultura	Japón	24.000	2/VI/77-VI/1979	Experto en apicultura para asesorar a la Facultad de Ingeniería Agronómica de la UNA.
Inseminación artificial.	Japón	21.799	IX/1977-IX/1979	Experto en inseminación artificial en ganado vacuno para la Facul. de Veterinaria de la UNA y provisión de equipos y suministros.
PASTOREO	COTESU (Gobierno Suizo)	35.000	1969-1977	Escuela Agrícola y Centro de Formación de Asesores Cooperativistas en Pastoreo Itapúa. Un experto, equipos, becas, construcciones y otros.
Acción Forestal	COTESU (Gobierno Suizo)	105.000	1973-1978	Escuela Forestal "Alto Paraná" en Presidente Stroessner. 2 expertos, equipos, becas, suministros, construcciones y otros.
Cooperativa Agrícola Minga Guazú, Ltd.	COTESU (Gobierno Suizo)	185.000	1969-1979	Cooperativa Agrícola Minga Guazú, Ltda. en Pte. Stroessner. 2 expertos, becas, equipos, construcciones y otros.
Facultad de Ciencias Veterinarias UNA	COTESU (Gobierno Suizo)	85.000	1977-1982	Un experto, becas, equipos y otros.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Agricultura, Silvicultura, Pesca y Ganadería

Código: 05

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Proyecto lechero.	COTESU (Gobierno Suizo)	20.000	1977-1981	Proyecto lechero para la Cooperativa Agrícola Minga Guazú Ltda. en Pte. Stroessner. Construcciones
Escuela de formación agronómica	HELVETAS Asociación Suiza de Asist. Técnica	320.000	1972-1979	Escuela de Formación Agronómica en Caacupé. 40 m/h de asesoría durante 1977.
Cooperativa de Créditos	USAID	320.000	1969-1981	Asistir a la CREDICOOP, a través de asistencia técnica, en la capacitación de los funcionarios para asistir adecuadamente a sus miembros.
Producción de ganado en pequeña escala	USAID	129.000	1975-1978	Proporcionar a la Facultad de Ciencias Veterinarias asesoría técnica y equipo para promocionar la cría de ganado, cría de cerdos, cría de aves, en beneficio de los pequeños agricultores.
Planificación agrícola y estadísticas.	USAID	96.000	1975-1979	Establecer en el MAG la capacidad para desarrollar análisis y programas adecuados dentro del sector agrícola prestando asesoría técnica y equipos.
Mejoramiento de sis- temas de riego.	Venezuela	840	5/IX/77-28/X/77	Beca en mejoramiento de sistemas de riegos, usufructuada por Angel Macchi Ayala.
Investigación agrícola	Cuerpo de Paz	sin datos	1976-1983	Cooperar con el MAG en la planificación y ejecución de investigaciones agroeconómicas.
Educación agrícola	Cuerpo de Paz	sin datos	1970-1983	Cooperar con el Ministerio de Agric. y Ganad. y la UNA en la enseñanza de materias agrícolas a nivel universitario y de capacitación vocacional y en realizar investigaciones.
Bosques y Parques Na- cionales. Hohenau, Cerro Corá y Agua Dulce (Chaco).	Cuerpo de Paz	sin datos	1976-1983	Cooperar con el Servicio Forestal y la UNA en la capacitación del personal en bosques y parques y en implementar los programas relacionados con estos campos. 3 voluntarios.
Cooperativas agrícolas. (de todo el país)	Cuerpo de Paz	sin datos	1971-1980	6 voluntarios para cooperar con CREDICOOP, Ministerio de Agricultura y otros organismos en proporcionar asistencia administrativa, contable y agrícola a las cooperativas agrícolas.
Extensión agrícola	Cuerpo de Paz	sin datos	1967-1985	10 voluntarios/año para cooperar con el SEAG en desarrollar y realizar programas de extensión, capacitar personal, desarrollar programas de administración de granjas y preparar el material necesario para las áreas rurales.

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: Agricultura, Silvicultura, Pesca y GanaderíaCódigo: 05

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Programa de mejora- miento del hogar.	Cuerpo de Paz	sin datos	1967-1985	10 voluntarios/año para cooperar con el SEAG en fomentar e imple- mentar programas de mejoramiento del hogar.
Curso de extensión y comercialización agrí- cola.	Israel	17.000	3 semanas (agosto 1977)	Curso móvil en MAG.
Curso de crédito diri- gido.	Israel	17.000	3 semanas (octubre - noviembre 1977)	Curso móvil en MAG.
Curso de extensión y fertilización agraria	Israel	17.000	3 semanas (noviembre- diciembre 1977)	Curso móvil en MAG.
Curso de comerciali- zación agrícola (1 part.)	Israel	3.176	6 semanas (mayo-junio 1977)	Curso en Israel.
Curso de desarrollo de cooperativas agrícolas (1 part.)	Israel	1.200	6 semanas (octubre- noviembre 1977)	Curso en Israel.

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: Cultura y Ciencias Sociales y HumanasCódigo: 10

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Mejoramiento de los Servicios Biblioteca- rios Universitarios	OEA	7.500	Terminó en 1977	Formación del catálogo colectivo. Asesoramiento, capacitación de personal, equipo y gastos operativos Biblioteca y Escuela de Bibliote- cología. Universidad Nacional de Asunción.
Taller de Restauración de Documentos.	OEA	4.150	Terminó en 1977	Apoyar la formación del Taller de Restauración de Documentos. Aseso- ramiento, capacitación y equipos y materiales. Archivo Nacional. Asunción
Artesanía	Cuerpo de Paz	sin datos	1976-1982	Cooperar con la Asociación de Parcialidades Indígenas del Para- guay para promover la artesanía indígena.
III Curso Latinoameri- cano para Administra- dores y Promotores Culturales.	Venezuela	3.780	I/6/77-29/VII/77	Una beca en este campo en CORDIPLAN, Caracas, Venezuela.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Educación

Código: 15

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Publicación de un boletín de la Comisión Nacional de la UNESCO	UNESCO (7047 CN)	1.500	1977	Aporte financiero
Restauración de monumentos.	UNESCO (7048 CC)	16.800	1977	Dos becas de seis meses cada una.
Reunión Subregional sobre planificación de turismo cultural.	UNESCO (7049 CC)	4.000	1977	Aporte financiero
Seminario sobre Desarrollo Económico y Social, Dinámica de Población y Educación.	UNESCO	5.000	Agosto 1977	Organización de un seminario en San Bernardino.
Consulta colectiva de Secretarios de Comisiones Nacionales.	UNESCO	2.036	28/II-18/III/1977	Invitación al Sr. José Villalba para asistir a esta reunión en la Sede de la UNESCO, en París.
Desarrollo de la educación técnica de nivel medio y formación profesional.	BID (no reembolsable) ATN/TF (SP) - 1540-PR	120.000	1977-1979	Elaboración de un proyecto de desarrollo de la educación técnica de nivel medio y de la formación profesional destinado a fortalecer los medios existentes para la preparación de técnicos de nivel medio y mano de obra calificada para los sectores agrícola, industrial, y de servicios. Experto 34m/h.
Adiestramiento en Plurigrados.	OEA	8.000	Terminó	Realización de cuatro cursos nacionales para profesores de plurigrados en áreas de matemáticas con la asistencia del Proyecto Multinacional para el Mejoramiento de la Enseñanza Primaria en América Latina. Profesores, material didáctico y gastos operativos. Departamento de Enseñanza Primaria. MEyC.
Adiestramiento en Planeamiento y Administración Educacional.	OEA	8.000	Terminó	Realización de un Curso Nacional sobre la materia, con la asistencia del Proyecto Multinacional de Planeamiento y Administración Educacional, que opera en el Centro de Perfeccionamiento, Experimentación e Investigaciones Pedagógicas de Chile. Profesores, material didáctico y gastos operativos. ISE, MEyC.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Educación

Código: 15

Título de la actividad e proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Adiestramiento en el ex- terior (becas).	OEA	129.818	Indefinido	Otorgamiento de becas para es- tudios en diversos campos del saber humano, en distintos cur- sos y centros, en diferentes países. 60 becas concedidas en 1977.
Especial Multinacional de Capacitación para el Tra- bajo "Brasil-Paraguay- Uruguay".	OEA	80.000	Hasta diciembre 1978	Apoyar el desarrollo de la edu- cación técnica, la educación especial y la formación profesio- nal, para dar respuestas educa- tivas a la zona de influencia de Itaipú. Cursos, seminarios becas, contratos locales, equipo, materiales y gastos operativos. Dirección General de Educación, MEyC.
Especial Multinacional de Desarrollo Educativo y Socio-Cultural de Zonas Límitrofes "Argentina- Bolivia-Chile-Paraguay"	OEA	50.000	Hasta diciembre 1978	Realización de diversas accio- nes educativas en regiones fronterizas, fomentando la ca- pacitación agropecuaria, técnico -industrial, sanitaria, nutri- cional. Cursos, seminarios, contratos locales, equipo, materiales y gastos operativos. Asunción y Zonas de fronteras MEyC.
Desarrollo de la Orienta- ción Vocacional en la Enseñanza Media.	OEA	30.000	Hasta diciembre 1978	Reforzar y expandir los servi- cios de orientación vocacional y profesional. Asesoramiento, semi- narios y cursos nacionales, equipo etc. Servicio de Orienta- ción Educativa y Vocacional (SOEV), MEyC.
Investigación sobre Aspec- tos del Redimiento Escolar relacionados con Bilingüismo.	OEA	25.000	Hasta diciembre 1977	Realizar investigación sobre el indicado tema tanto en los niveles primario, como medio y en relación al medio rural y al medio urbano. Investigadores, equipos y gastos operativos. MEyC.
Apoyo a la Educación Primaria Acelerada.	OEA	7.000	Hasta diciembre 1977	Buscar la más pronta y amplia implementación de esa modali- dad educativa, para recuperar a alumnos rezagados y disminuir la deserción escolar. Adiestra- miento personal mediante 4 Cursos Nacionales. Departamento de Enseñanza Primaria. MEyC.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Educación

Código: 15

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Planificación de la Educación	Rep.Federal de Alemania	142.000	1977-1978	Colaboración de un asesor en este campo, con CEPADES y CEPES.
Ingreso de estudiantes a Universidades Argentinas.	Argentina	25.000 (estimativo)	1977	97 estudiantes paraguayos para iniciar estudios universitarios en universidades argentinas.
Asistencia en educación técnica.	Argentina	4.625	1976-1977	Seis becas para realizar estudios en la Escuela Técnica N° 1 de Lincoln, Bs.As., Argentina.
Tratado de Intercambio Cultural.	España	80.000	desde marzo de 1977	Dos profesores prestando asistencia técnica.
Mejoramiento de la enseñanza de francés.	Francia	50.000		Un profesor encargado de la formación en el Instituto Superior de Lenguas de la UNA; 2 becas, libros y documentaciones.
Programa de Lengua Inglesa.	Gran Bretaña	25.000	1974-1979	Provision de un experto, equipos, y libros para el Instituto Superior de Lenguas.
Becas de perfeccionamiento.	Italia	5.445	1977	Tres becas por ocho meses cada una en universidades e institutos universitarios italianos.
Donación de libros	Italia	325	1977	Entrega de lotes de 60 a 70 volúmenes para las bibliotecas del ISE y Centro de Ex-alumnos "Don Bosco".
Estudios de observación sobre Centros de Entrenamiento Vocacional.	Japón	7.300	27/XI al 5/XII/1977	Dos becas concedidas en este campo, usufrutuadas por: Dr. Luis A. Vely y el Arquitecto Amado Franco.
Enseñanza de maestros	Cuerpo de Paz	sin datos	1969-1982	Cooperar con el Ministerio de Educación en programas de formación de maestros rurales.
Educación Rural no-formal.	USAID	115.000	1975-1980	Proporcionar asistencia al Ministerio de Justicia y Trabajo en el establecimiento de un programa de capacitación no formal de la población rural.
Educación rural por radio	USAID	173.000	1976-1979	Desarrollar la capacidad del Ministerio de Educación para proporcionar instrucción radial al mayor porcentaje de la población rural posible.
XVI Seminario Multinacional de Educación de Adultos en el Centro Regional de Educación de Adultos (CORDIPLAN)	Venezuela	1.260	27/VI/77-27/VIII/77	Beca concedida en este campo a Lorenza Acosta Marquez.
Curso de preparación de libros de textos en Matemáticas y Ciencia.	Venezuela	5.040	8 meses en 1977	Dos becas concedidas en este campo, usufrutuadas por Aurora Bader Espínola y Genara Duarte Rodas, realizadas en el Centro de Capacitación Docente El Mácaro Turmero, Aragua.
Curso Centro Regional de Educación de Adultos CREA (CORDIPLAN).	Venezuela	924	7/XI/1977-20/XII/1978	Becas concedidas en este campo a los señores Bernardino Caballero y Elsa Reinoso.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Política de Planificación Económica y Social General

Código: 20

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Apoyo al Fondo de Pre-inversión.	PNUD/BIRF PAR/74/015	150.440	1977 - 1980	Proporcionar asistencia técnica, becas y suministros para fortalecer la Oficina Nacional de Proyectos en el manejo de un fondo de preinversión. El proyecto es complementario a un crédito BIRF/AIF.
Apoyo al Sistema de Planificación.	PNUD/OTC PAR/73/009	2.761	1974 - 1977	Consultor y becas para asistir a la STP en el desarrollo y fortalecimiento de su acción en el sector industrial y en planificación regional.
Administración para el Desarrollo.	PNUD/OPE ^{1/} PAR/77/002	22.665	1977 - 1980	Provisión de consultorías y apoyo logístico en temas de interés nacional. En 1977 se proveyó asistencia en los campos de política energética, industria, formación profesional rural, e implementos agrícolas de tracción animal.
Banco Central y Banco Nacional de Fomento.	PNUD/OPE PAR/77/003	11.523	1977	Provisión de consultorías en procesamiento de datos y en comunicaciones para el BCP y el BNF.
Apoyo al BNF	PNUD/BIRF PAR/77/005	30.139	1977 - 1980	Expertos y equipos, en un proyecto complementario de un crédito del BIRF, en aspectos de programación y presupuestos, contabilidad de costos y administración bancaria.
Asesoría en aspectos tributarios y financieros	FMI	50.000	1977	Servicios de un experto.
Estudios de prefactibilidad Eje Norte.	FAO (PCT)	3.680	1977 (diez días)	Misión de dos consultores para revisar la actual situación de los colonos y del desarrollo rural y proponer un estudio de prefactibilidad de desarrollo del eje norte de colonización.
Curso Básico de Planificación y Política Económica.	CEPAL/ILPES	4.380	27/VI-16/XII/1977	Dos becas para asistir a este curso concedidas a los señores Juan Bueno Jara y Ramiro Rodríguez. Santiago, Chile.
Curso de proyectos agroindustriales.	BIRF	2.420	20/VI-26/VIII/1977	Beca concedida al Sr. Carlos A. Rodríguez. Washington, USA
Curso regional sobre integración y cooperación en América Latina.	OEA/INTAL/UN	748	4-29/VII/1977	Beca concedida al Sr. Darío Cardozo para asistir a este curso. Brasilia, Brasil.
III Curso Subregional de Planificación y Políticas de Empleo.	PREALC RLA.75/081	1.500	22/VIII-16/IX/1977	Tres becas para asistir a este curso realizado en San Salvador El Salvador.

1/ Este proyecto cuenta con el equivalente de DM280.000 (US\$136.585) aportado como participación de gastos por la República Federal de Alemania para aspectos de formación profesional rural en Choré.

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: Política de Planificación Económica y Social GeneralCódigo: 20

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Planificación regional	BID ATN/SF-1509-PR		30/XII/1976 30/VI/1979	Fortalecimiento de la capacidad técnica de la STP en el campo de la Planificación Regional, específicamente relacionada con las represas de Yacyretá-Apípe y Corpus. Expertos 44 m/h.
Política Técnica de Administración Tributaria.	OEA	48.200	Hasta diciembre de 1979	Asesoramiento al Ministerio de Hacienda. 14 1/2 meses/experto.
Presupuesto y Contabilidad Pública.	OEA	50.800	Hasta diciembre 1979	Asesoramiento y Capacitación. Ministerio de Hacienda. 14 meses/experto y un curso nacional para 26 participantes. Asunción.
Aprovechamiento Múltiple de la Cuenca del Río Pilcomayo. Regional entre Argentina, Bolivia y Paraguay.	OEA/PNUD/BID	62.400	Hasta diciembre 1979	Estudio de las posibilidades de los recursos hídricos y naturales de la Cuenca, con el fin de formular un plan coherente con el desarrollo económico y social de la región. Especialistas en diferentes campos, 18 m/h por cuenta de la OEA. Asunción y Area del Proyecto.
Cooperación al Sistema de Planificación en el Area Social.	OEA	36.600	Hasta febrero 1978	Asesoramiento en la elaboración del Plan de Desarrollo en lo que hace a los sectores sociales. 12 m/h STP.
Apoyo para la implementación del sistema de mercados de capital.	OEA	4.600	Termina en diciembre 1978	Asesoramiento y capacitación de personal. Un mes experto. Banco Central del Paraguay.
Estudio sobre el Paraguay "Country Review"	OEA	40.400 ^{1/}	Indefinido	Investigación, publicación documentos y organización Reunión, del Grupo Ad-Hoc de CEPICIES, 8 m/h y gastos operativos. Asunción y Washington D.C.
Programa de Desarrollo Rural Urbano Integral del Dpto. de Paraguari.	OEA	34.000 ^{1/}	Hasta diciembre 1979	Asesoramiento para la formulación de un diagnóstico y la elaboración de un conjunto de proyectos destinados a potenciar el área. 10 m/h y un Seminario Nacional. CNPS.
^{1/} Estimado				

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: Política de Planificación Económica y Social GeneralCódigo: 20

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Asesor para la STP.	Rep. Federal de Alemania	48.000	1970-1978	Coordinación entre programación de desarrollo y promoción de las exportaciones. Un experto.
Técnicas de mando y de gestión en las empresas públicas de servicios.	Rep. Federal de Alemania	3.156	IV/1977	Seminario de 25 días en Berlín: Munich y Viena. Un participante.
Problemas de intercambio de información sobre estudios de impuestos.	Rca. Federal de Alemania	853	VIII/1977	Seminario de una semana en Willmenstandt/Curacau. Un participante.
Problemas actuales de la Banca de Fomento Latinoamericana.	Rca. Federal de Alemania	3.754	X/1977	Seminario de una semana en Berlín. Dos participantes.
Convenio Básico de Asistencia Técnica.	España	96.000	1975-1977	Dos expertos españoles que asisten a la Secretaría Técnica de Planificación en los sectores público y agropecuario.
Impuestos directos.	Japón	9.880	1/IX-20/X/1977	Dos becas concedidas en este campo a los señores Ignacio Céspedes González y Carlos Cibils Catalviano
Desarrollo Económico	Japón	4.281	12/V-10/VI/1977	Una beca concedida en este campo al Sr. Miguel A. López.
Administración nacional de gobierno.	Japón	5.666	5/V-27/VI/1977	Una beca concedida en este campo al Dr. Carlos M. Ocampos Arbo.
Cooperación de voluntarios japoneses.	Japón	700	16/X-21/X/1977	Misión realizada por un miembro de la Secretaría General de Voluntarios Japoneses de Cooperación en el Exterior para realizar estudios sobre el envío de voluntarios japoneses al país.
Acuerdo Básico de Cooperación Técnica.	Japón	700	23/VII-27/VII/1977	Misión de un asesor para negociaciones sobre acuerdo básico de cooperación técnica.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: SaludCódigo: 25

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Saneamiento Ambiental	UNICEF	200.000	1977 ^{1/} -1981	Primera etapa de un programa de cuatro años que prevé la provisión de agua potable a la población rural dispersa de los Departamentos Central, Paraguari y Cordillera. La asistencia de UNICEF consiste en la provisión de equipos, suministros, fondos para capacitación de personal y asistencia técnica a través de los servicios de un Oficial de Proyectos.
Mejoramiento de la Atención Materno-Infantil (MAMIPAR).	UNFPA/UNICEF ^{2/}	6.432 (UNFPA) 5.500 (UNICEF)	1977	Primera región sanitaria. Equipos y suministros para mejoramiento físico de los servicios de salud y programas de planificación familiar y detección del cancer. Fondos para capacitación de personal.
Curso sobre aspectos ambientales del manejo de recursos hídricos.	CEPAL/ILPES	746	29/VIII-30/IX/1977	Beca concedida para asistir a este curso, al señor Guillermo Martínez. Santiago, Chile.
Contaminación de aguas subterráneas.	CIFCA (PNUMA)	1.614	7-25/XI/1977	Beca concedida al Sr. Sergio Echeverría para asistir a este curso realizado en la sede del CIFCA en Madrid, España.
<p>^{1/} En términos operacionales el proyecto comenzó en marzo de 1978. Los fondos gastados en 1977 corresponden a pedidos de equipos y suministros.</p> <p>^{2/} Proyecto de UNFPA ejecutado por UNICEF con aportes adicionales de UNICEF.</p>				

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: SaludCódigo: 25

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Par-0100, Control de En- fermedades Transmisi- bles.	OPS - PR	17.000	1966 - 1980	Asistencia Técnica. Beca (1) de 4 meses. Suministros (vacunas) US\$ 14.700.00.
Par-0200, Erradicación de la Malaria.	OMS - PR	54.750	1957 - 1978	Asistencia Técnica: 1 Consultor per- manente (12 meses). Becas (2) de 10 y 4 meses, respectivamente US\$ 9.460.00. Suministros y equipo (dro- gas antimaláricas y equipo entomoló- gico) US\$ 5.000.00.
Par-1300, Salud de la Familia y Dinámica de Población.	OPS - PR	14.470	1974 - 1980	Asistencia Técnica. Becas (2) de 9 y 3 meses, respectivamente. Semina- rios: US\$ 3.000.00. Suministros y equipo: US\$ 3.000.00.
Par-1700, Enfermedades Crónicas - Cáncer.	OPS - PR	3.800	1968 - 1978	Equipo y Suministros: US\$ 1.500.00. Beca (1) de 4 meses: US\$ 2.300.00.
Par-2000, Saneamiento del Medio Ambiente.	OPS - PR	55.455	1968 - 1978	Asistencia Técnica: 1 Consultor per- manente (12 meses). Suministros y equipo: US\$ 1.000.00. Becas (2) de 9 y 4 meses, respectivamente US\$ 10.780.00.
Par-4100, Servicios de Enfermería.	OPS - PR	15.810	1976 - 1980	Asistencia Técnica por personal Area VI. Seminarios: US\$ 4.000.00. Su- ministros y equipo: US\$ 2.000.00. Becas: US\$ 7.500.00.
Par-5000, Planificación del Programa y Activi- dades Generales.	OPS - PR	74.140	Indefinida	Asistencia Técnica: 1 Consultor per- manente que actúa como Representan- te de País. 1 Secretaría y Servi- cios comunes: US\$ 12.350.00.
Par-5100, Desarrollo de Servicios de Salud.	OPS - PR	25.770	1955 - 1980	Asistencia Técnica: 1 Consultor a Corto Plazo 4 meses. Suministros y equipos: US\$ 6.500.00. Beca (1) de 12 meses: US\$ 8.470.00.
Par-5101, Servicios de Salud en Areas en Desa- rrollo.	OPS - PR	52.535	1972 - 1980	Asistencia Técnica: 1 Consultor Permanente. Seminarios (2): US\$ 3.500.00. Suministros y equipo: US\$ 5.000.00. Becas (2) de 10 meses y 1 mes, respectivamente: US\$ 8.280.00.
Par-5103, Extensión de Cobertura de Servicios de Salud.	BID - OPS	115.000	1977	Consultores a Corto Plazo (6) por un total de 16 meses: US\$ 56.000.00. Equipo y suministros: US\$ 24.000.00. Costo de apoyo al Programa: US\$ 20.000.00.
Par-5400, Estadísticas de Salud.	OMS - PR	3.000	1971 - 1977	Asistencia Técnica. Suministros y equipo: US\$ 3.000.00.
Par-5500, Administra- ción de Servicios de Salud.	OPS - PR	35.615	1977 - 1980	Asistencia Técnica: 1 Consultor per- manente (12 meses).
Par-6000, Desarrollo de Recursos Humanos.	OPS - PR	9.800	1974 - 1978	Asistencia Técnica. Cursos y Semi- narios: US\$ 6.300.00. Suministros y equipo: US\$ 3.500.00.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Salud

Código: 25

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Alcantarillado sanitario y pluvial.	BID (no reembol- sable) ATN/SF-1505	32.000	I/1977-VII/1981	Programa que incluye: a) análisis de sistemas de limpieza, conser- vación, operación y mantenimiento de las obras de alcantarillado sanitario y pluvial y b) adiestra- miento de personal. Expertos 5 m/h. Becas 6 (9 m/becario).
Agua potable área metropolitana.	BID (\$ 207.000 no reembolsable y \$ 291.000 recuperación contingente)	207.000	X/1977-IV/1980	Preparación del Plan Director de Expansión del Sistema de Agua Potable de Área Metropolitana de Asunción, así como la elaboración del estudio de factibilidad y los diseños finales de la primera etapa del referido plan. Expertos 76 m/h.
Extensión Servicios Salud Pública Rural.	BID ATN/TF(SP) 1478-PR	sin datos	X/1976-IV/1978	Preparación de proyecto de extensión de los servicios de salud pública rural. Expertos 26 m/h.
Agua potable para ciudades del interior del país.	BID (crédito) ATN/TF(SP)- 1487-PR.	sin datos	X/1976-IV/1978	Preparación de diseños finales para sistemas de abastecimiento de agua potable para las ciudades de Coronel Oviedo y Villarrica. Expertos 16m/h.
Donación de medicamen- tos a Hospitales.	Rca. Federal de Alemania	280.600	XI/1977	Donación de medicamentos donados por la Asociación médica para coo- peración medicinal de Berlín, a hospitales del país.
Programa de lucha contra la lepra.	Rca. Federal de Alemania	61.000	II/1977	Ayuda de la Asociación Alemana contra la lepra a este programa.
Enseñanza de la Medi- cina	Francia	45.000	1977	La asistencia consiste en la venida de un cardiólogo por seis meses, 4 misiones médicas, 6 becas, libros y documentaciones.
Enfermedades micro- bianas.	Japón	10.227	2/VI/1977 24/III/1978	Una beca de especialización en este campo concedida a la Dra. Regina Serra Bobadilla.
Descubrimiento prema- turo del cáncer.	Japón	5.872	5/V-4/VII/1977	Una beca de especialización en este campo concedida al Dr. Juan B. Wasmosy Monti.
Perfeccionamiento en Gastroenterología.	Japón	5.272	XI/1977-XI/1978	Una beca de especialización en este campo concedida al Dr. Carmelo Blasco M.
Clínica Médica	Japón	5.272	XI/77-XI-1978	Una beca de especialización en este campo concedida a la Dra. María Angélica Fresco O.

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: SaludCódigo: 25

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Programa Prevención contra la lepra.	Japón	106.196	desde 1970	Concurso de dos médicos leprólogos, instrumentales y equipos.
Educación sanitaria	Cuerpo de Paz	sin datos	1968-1977	Cooperación con el Ministerio de Salud (PAEN, Dpto. Salud Rural) en programas de educación sanitaria y nutricional. Areas rurales.
Adiestramiento de enfermeras.	Cuerpo de Paz	sin datos	1974-1982	Cooperación con el Ministerio de Salud (Centro de Formación de Auxiliares de Enfermería-CENFAE) para la enseñanza de auxiliares de enfermería para centros de salud rurales, Asunción.
Saneamiento Ambiental	Cuerpo de Paz	sin datos	1969-1982	Cooperación con el Ministerio de Salud (Servicio Nacional de Sanea- miento ambiental SENASA) para ayudar a los inspectores rurales en programas de educación sanitaria y organización comunitaria.
Desarrollo Institucio- nal.	Cuerpo de Paz	sin datos	1974-1982	Cooperación con el Hospital Psi- quiátrico Nacional en programas de terapia recreativa para los pacientes de dicha institución.
Curso de Derecho y Administración Ambien- tal. (CORDIPLAN)	Venezuela	1.680	20/VI-29/VII/1977	Beca concedida en este campo a Isabelino Martínez y Anibal Casal

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: IndustriaCódigo: 35

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Servicio de asesoría industrial.	ONUDI	10.000	1977	Consultorías en aspectos institucionales y en producción de acero.
Foro de inversionistas.	ONUDI	20.000	1977 (noviembre)	Realización de un encuentro entre inversionistas europeos y empresarios paraguayos. Asunción.
Reunión para la promoción de las inversiones y la cooperación industrial en determinadas industrias de elaboración de la madera.	ONUDI	1.236	2-6/V/1977	Invitación al Director del SFN para asistir a esta reunión. Gira por: Montreal, Panamá, Bogotá.
Reunión preparatoria de cueros y productos de cuero.	ONUDI/CEPAL	332	6-10/VI/1977	Invitación al Sr. Isidro Schwartzman para asistir a esta reunión realizada en Santiago, Chile.
Reunión preparatoria de aceites vegetales.	ONUDI/CEPAL	355	13-17/VI/1977	Invitación al Sr. Miguel A. González para asistir a esta reunión realizada en Santiago, Chile.
Viaje de estudios sobre intercambio de experiencias en la esfera de la agroindustria.	ONUDI	1.964	23/IX-6/X/1977	Beca concedida al Sr. Sebastián Portillo para realizar este viaje de estudio a Novi Sad (Yugoeslavia).
Seminario sobre adhesivos usados en procesos industriales de madera.	ONUDI	1.864	31/X-4/XI/1977	Beca concedida al Sr. Oscar Oddone para asistir a este seminario.
Encuesta industrial.	BID ATN/SF-1418-PR	sin datos	19/I/76-19/II/77	Encuesta industrial para determinar bases para promoción del desarrollo industrial.
Desarrollo lechero	BID (no reembolsable) ATN/SF-1541 RE 12-PR-2	10.000	17/X-10/XII/1977	Asesorar a la Asociación de Colonias Mennonitas del Paraguay para cooperar en la formulación de la solicitud de préstamo para el financiamiento de un proyecto de Desarrollo Lechero en el Chaco Paraguayo. Experto 2 1/2 m/h.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: IndustriaCódigo: 35

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ejecutó
Creación de un Centro de Diseño Industrial.	OEA	16,200 ^{1/}	Terminó en agosto 1977	Asesoramiento y Capacitación. MIC (CEPEX/INTN). Tres meses/experto y un Curso Nacional para 42 participante Asunción.
Programa de Cooperación Agroindustrial - III Fase. Organización de la Producción y Comercialización de Petit-Grain y de Menta.	OEA	29.300 ^{1/}	Hasta diciembre 1977	Asesoramiento Oficina Nacional de Proyectos. 6 m/h y una visita de observación. Asunción, Brasil, Europa y Sede OEA en Washington D.C.
Tecnología de Alimentos (Agroindustria)	OEA	15.000	Terminó en diciembre 1977.	Realizar producciones experimentales en la Planta Piloto de Agroindustria destinadas a la industrialización de productos alimenticios de origen nacional. Asesoramiento equipos y gastos operativos. INTN.
Especial Multinacional de Tecnología de Alimentos.	OEA	5.000	Terminó	Contribuir con soluciones económicamente factibles a aliviar el problema de la escasez cualitativa de alimentos. Equipos y gastos operativos. INTN,
Evaluación de Proyectos industriales.	Rca. Federal de Alemania	4.566	Octubre 1977	Seminario de tres semanas en Berlín (2 participantes).
Curso de Administración Industrial.	Israel	8.976	I/II/1977	Cinco participantes a un curso sobre este tema, por siete semanas en Israel.
Programa de Mejoramiento de los Aceites Esenciales.	Gran Bretaña	20.000	1974 - 1978	Provisión de un técnico, equipo, transporte y becas para el INTN.
Pequeña industria.	Japón	1.400	15/XII-20/XII/1977	Misión compuesta por miembros del equipo técnico de complementación para los ex-becarios de la JICA en la especialización de pequeña industria, para informarse sobre actuaciones de ex-becarios, intercambiar opiniones tendientes a mejorar la cooperación técnica y realizar un Seminario de Complementación Técnica sobre el Desarrollo de la Pequeña Industria con los ex-becarios paraguayos.
^{1/} Estimado				

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: IndustriaCódigo: 35

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Desarrollo de Cerámica	Japón	4.415	6/X-31/X/1977	Beca concedida en este campo al Sr. Jacinto Matiauda.
Plásticos.	Japón	5.600	20/X/1977-21/III/1978	Beca concedida en este campo al Sr. Victor Morel M.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Comercio Internacional

Código: 40

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ejecutó
Promoción de exportaciones.	UNCTAD/GATT (CCI)	25.000	1977	Consultores varios para el CEPEX en materia de políticas de promoción de exportaciones, control de calidad, administración y entrenamiento.
Feria Internacional de Londres "Gift Show"	UNCTAD/GATT	1.814	14-18/VIII/1977	Dos becas concedidas a la Sra. Beatriz de López y a la Srta. Olga Vera, para asistir a esta feria. Londres, Inglaterra
Curso de Política Comercial.	GATT INT/70/707	5.215	8/VIII-14/XII/1977	Beca concedida al Sr. Rigoberto Gauto para asistir a este curso, realizado en Ginebra, Suiza.
Seminario sobre Planificación de Ferias y Exposiciones.	UNCTAD/GATT	2.175	12/IX-7/X/1977	Invitación al Director del CEPEX para asistir a este Seminario. Ginebra, Budapest, Berlín, Dublín, Valencia.
Seminario regional fondo común de productos integrados.	CEPAL	309	26-28/IX/1977	Beca concedida al Sr. Nelson Ayala para asistir a este Seminario. Santiago, Chile.
Curso de capacitación de funcionarios latinoamericanos en materia de comercialización del azúcar.	UNCTAD RLA/76/016	1.600	31/X-25/VI/1977	Beca concedida al Sr. Vicente Renna para asistir a este curso realizado en México y Nueva York.
Programa especializado sobre comercio exterior	UNCTAD/GATT	3.863	17/I-17/VI/77	Beca concedida al Sr. Antonio Estigarribia para asistir a este Seminario. Roma, Italia.
Seminario sobre problemas de la comercialización del algodón en América Latina.	UNCTAD/GATT	841	23-25/V/1977	Invitación al Director del CEPEX para asistir a este Seminario realizado en Caracas. Venezuela.
Seminario sobre organización y dirección de centros nacionales de promoción del comercio exterior.	UNCTAD/GATT	2.176	6/VI-1/VII /1977	Beca concedida al Sr. José Luis Pecci para asistir a este seminario realizado en Ginebra, Suiza.
Seminario para Instrutores en Promoción de las Exportaciones.	UNCTAD/GATT	2.176	23/V-17/VI/1977	Beca concedida al Sr. Pablo Recalde para asistir a este Seminario. Ginebra, Suiza.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Comercio Internacional

Código: 40

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Estudio de Oferta sobre Productos Seleccionados, por intermedio del Centro Interamericano de Promoción de Exportaciones.	OEA	4.600	Hasta febrero 1977	Asesoramiento al Ministerio de Industria y Comercio (CEPEX). Un mes de experto. Asunción.
Información Comercial y Adiestramiento en Promoción de Exportaciones. Servicios regulares del CIPE.	OEA	10.000	Indefinido	Información comercial. Capacitación, CEPEX.
Curso Nacional sobre Comercialización Internacional y Promoción de Exportaciones.	OEA	6.000 ^{1/}	Mayo 1977	Adiestramiento de 37 participantes. Ministerio de Industria y Comercio, a través del CEPEX y la FEPRINCO. Dos profesores del ICICOM y material didáctico. Asunción
Fletes de Exportación	OEA	2.500 ^{1/}	Hasta diciembre 1977	Asesoramiento al Ministerio de Industria y Comercio/CEPEX. Una misión de seguimiento de corta duración y publicación informe. Asunción, Argentina, Uruguay y Brasil.
Promoción del Comercio Exterior.	Japón	9.236	27/IX-28/XI/1977	Beca concedida en este campo a la Srta. Olga Vera. Japón
5º Seminario para Agregados Comerciales Latinoamericanos.	Rep. Federal de Alemania	2.470	Octubre 1977	Seminario de un mes en Berlín, Bogotá, Viena, Rotterdam. (2 participantes)
^{1/} Estimado				

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: Mano de Obra, Administración de Empresas y EmpleoCódigo: 45

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Formación Profesional Rural.	PNUD/OIT PAR/72/006	549	1973 - 1976	Ajustes del aporte para el proyecto compuesto por dos expertos y equipos para la formación de colonos y organización de producción para pequeña industria artesanal.
Recursos Humanos.	PNUD/OIT ^{1/} PAR/76/007	72.548	1977 - 1978	Expertos, becas y equipos para fortalecer los servicios nacionales responsables de dirigir políticas de recursos humanos y empleo.
Fortalecimiento del SNPP.	PNUD/OIT ^{1/} PAR/76/008	117.769	1977 - 1980	Expertos, becas y equipos en un proyecto complementario a un crédito BIRF/AIF para fortalecer los servicios de formación profesional urbano y rural, formal e informal, y proveer asistencia técnica a sectores de la producción.
Programa de capacitación de personal en el área del proyecto tripartito de Turismo (Iguazú-Misiones Jesuíticas) en territorio paraguayo.	OEA	13.200	Terminó en junio 1977	Asesoramiento en la elaboración del programa de adiestramiento de personal. 3m/h Asunción y área del proyecto.
Desarrollo Institucional y Fortalecimiento de la Dirección General de Recursos Humanos del MJyT.	OEA	41.000 ^{2/}	Hasta diciembre 1977	Asesoramiento, investigación y capacitación de personal. 9 m/h y un seminario nacional para 30 participantes. Asunción. MJyT.
Acuerdo de Asistencia Técnica para un programa de formación de mano de obra y mandos medios.	España	144.000	1975 - 1977 (renovado por cuatro años en diciembre 1977)	Tres técnicos españoles para asesorar al SNPP.
Programa de Cooperación Profesional.	Gran Bretaña	30.000	1976 - 1979	Un asesor, vehículo, equipos. Servicio Nacional de Promoción Profesional (Centro de Adiestramiento en Carpintería y Ebanistería) San Lorenzo.
Escuela Técnica Vocacional de los salesianos.	Italia TEN-Paraguay (Terra Nuova)	28.000	1976 - 1977	Cuatro instructores, voluntarios civiles y un técnico voluntario civil para "Don Bosco Film".
^{1/} Recibieron aporte de los proyectos regionales PNUD/OIT CINTERFOR (RLA/73/059), PREALC (RLA/75/081) y CIAT (RLA/75/083) en un monto estimado de US\$35.000 en 1977. ^{2/} Estimado				

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Mano de Obra, Administración de Empresas y EmpleoCódigo: 45

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Cooperación Artes Industriales.	Italia	14.400	1976 - 1977	Dos cooperadores voluntarios civiles para la preparación de instructores en el sector de la electricidad. ISE.
Entrenamiento Vocacional.	Japón	10.936	13/X-20/XII/1977	Dos becas de especialización en este campo. Japón
Escuela Técnica Vocacional.	Japón	25.200	8/V-9/VI/1977	Consultores para estudiar plan de cooperación sobre construcción del edificio de la Escuela Técnica Vocacional "Pte. C.A. López".
Escuela Técnica Vocacional.	Japón	17.500	15/V-9/VI/1977	Consultores para realizar estudios y reunir datos relacionados con diseño básico de la construcción del edificio de la Escuela Técnica Vocacional.
Escuela Técnica Vocacional.	Japón	24.935	9-20/VIII/1977	Misión para información aclaratoria sobre diseño básico construcción de edificio Centro de Entrenamiento Vocacional.
Escuela Técnica Vocacional.	Japón	3.790	16/VIII-18/VIII/1977	Para evaluar futuro edificio a construirse para el Centro de Entrenamiento Vocacional con la cooperación financiera sin reembolso del Gobierno del Japón. Un Consultor.
Sociedad Salesiana (Salesianito)	USAID	96.000	IX/1977-XII/1970	Colaborar en el aumento de la capacidad para el entrenamiento de mano de obra calificada entre la gente pobre y contribuir de este modo a las futuras demandas del país en este campo.

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: Recursos NaturalesCódigo: 50

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Desarrollo de Aguas Subterráneas en el Chaco. Fase II.	PNUD/OTC ^{1/} PAR/72/004	99.598	1974 - 1977	Dos expertos, becas y equipos. Exploración y desarrollo de aguas subterráneas en el Chaco paraguayo, para consumo humano y ganadero. MDN.
Estudio sobre industrias de alto consumo de energía.	PNUD/ONUDI PAR/74/817	60.000	1977	Contratación de una firma consultora para preparar un estudio sobre las posibilidades de considerar industrias de alto consumo de energía.
Prospección de Uranio	OIEA PAR/3/02	65.000	6 meses en 1977 y 1978	Asesoría de un experto y equipo en este campo para el CNEA.
Evaluación de Recursos Minerales no Metálicos (Arcilla, caolines y otros)	OEA	8.000	Hasta diciembre 1981	Continuación de los estudios de arcillas, caolines y arenas, en diferentes áreas. En el interior, con trabajo de gabinete, en Asunción, Técnicos Nacionales, documentación y bibliografía. INTN.
^{1/} Incluye los servicios de un experto asociado proporcionado por el Gobierno de Holanda con un costo estimado de US\$ 36.136.				

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: PoblaciónCódigo: 55

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Estudio de Población para el Desarrollo.	FNUAP PAR/75/PO2	20.892	1977 - 1980	Fortalecer la División de Población y Recursos Humanos de la STP por medio de la realización de estudios e investigaciones en torno a la realidad demográfica del país.
Estudios Demográficos.	CELADE			Proporcionar asistencia técnica a través de cursos de capacitación en materia de investigaciones y estudios demográficos. Asistir a la STP y a la Dirección General de Estadísticas y Censos en la preparación de investigaciones y estudios sobre recursos humanos en la zona del Alto Paraná.
Población	USAID	221.000	1969 - 1978	Establecer una estructura institucional que pueda llevar un programa de planificación familiar. Ministerio de Salud Pública y Bienestar Social.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Ciencia y TecnologíaCódigo: 65

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Reunión preparatoria sobre química a nivel universitario.	UNESCO	282	28/III-1/IV/1977	Beca concedida al Sr. Luis Berganza, Decano de la Facultad de Química y Farmacia. Uruguay.
Seminario regional sobre radiología en los programas nucleares de América Latina.	OIEA	932	21-25/XI/1977	Invitación para asistir al seminario regional sobre protección radiológica en los programas de A.L. a la Sra. Isabel de Basualdo. Caracas, Venezuela.
Seminario Regional y Simposio Internacional sobre percepción remota por satélite.	NU/FAO	503	1-9/XII/1977	Invitación al Sr. Hilario Moreno para asistir al Seminario Regional de entrenamiento en aplicaciones de la percepción remota por satélite y simposio internacional percepción remota aplicada en demografía y uso de la tierra. La Paz, Bolivia.
Laboratorio de Radio-inmunoensayo.	OIEA PAR/6/02	50.000	1977 - 1978	Servicio de consultoría, becas y equipos para instalar un laboratorio de radioinmunoensayo en el IERH.
Documentación e Información Técnico-Científica.	OEA	8.000	Hasta diciembre 1978	Apoyar al Centro Nacional de Información y Documentación Técnica, para ampliar los servicios que brinda a la comunidad científica y a los sectores productivos. Asesoramiento, capacitación, Cursillo Nacional, equipos y gastos operativos. Asunción INTN.
Tecnología de la Computación Electrónica.	OEA	8.000	Terminó en Diciembre 1977	Fortalecimiento del Centro Nacional de Computación. Suministro de equipos. Asunción, Universidad Nacional de Asunción.
Especial Multinacional de Metrología.	OEA	12.000	Hasta diciembre 1982	Apoyar la formación del Centro Nacional de Metrología. Adiestramiento y equipos. Asunción, INTN.
Política y Planificación Científica y Tecnológica.	OEA	20.000	Hasta diciembre 1982	Establecer mecanismos de implementación de las acciones previstas en el Programa Nacional de Desarrollo Científico y Tecnológico. Asesoramiento, becas y gastos operativos. Asunción, INTN.

Proyectos y Actividades de Cooperación Técnica Externa en 1977Sector: Ciencia y TecnologíaCódigo: 65

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Ingeniería electromecánica e ingeniería civil.	OEA	10.000	Hasta diciembre 1979	Implementación de los laboratorios requeridos para las carreras de Ingeniería Electromecánica e Ingeniería Civil. Equipos. Asunción, UNA, Facultad de Ciencias Físicas y Matemáticas.
Informática	Francia	6.000	desde 1969	Dos becas, libros y documentaciones.
Becas de Perfeccionamiento	Italia	11.844		Seis becas a Institutos Universitarios y Centros de Perfeccionamiento italianos.

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Servicios Sociales

Código: 70

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Cálculo Actuarial en Seguridad Social.	OIT	15.000	1977	Servicios de asesoría en la materia para el IPS.
Curso sobre dirección de cooperativas.	OIT INT/68/672	2.051	19/IX-12/XII/1977	Beca concedida a Eduardo Ammatuna en este campo. Turín, Italia.
la Asamblea General de Asociación Regional Latinoamericana de Crédito Agrícola.	FAO	1.166	22-25/XI/1977	Invitación para asistir a este acto a Esteban Martínez. Bogotá, Colombia.
Programa Integrado de Desarrollo Rural de la Región de Paraná.	UNICEF	200.000	1975 - 1978	Equipos y suministros, fondos para capacitación, transporte, para actividades en educación, nutrición, salud, saneamiento ambiental, mejoramiento del hogar; actividades realizadas por instituciones componentes del Consejo Nacional de Progreso Social. Apoyo financiero para actividades de investigación, planificación, programación, supervisión y evaluación del programa realizadas por la Oficina Nacional de Progreso Social.
Fortalecimiento de la Oficina de Promoción Social de la Mujer.	UNICEF	12.800	1976 - 1978	Consolidación de la Oficina de Promoción Social de la Mujer. MJyT. Durante 1977 el apoyo de UNICEF consistió en fondos utilizados para la incorporación de personal técnico local y para algunos gastos operacionales de la Oficina. Se proporcionó asistencia técnica a través del personal regional de UNICEF.
Educación Nutricional y Alimentación de embarazadas y madres lactantes y niños en edad preescolar y escolar de la Zona "C" de Cordillera.	PMA PAR.633	323.000	XII/1971-XII/1978	Incrementar la asistencia alimentaria de un total de 88.925 personas de la Zona "C". Además recibirán ayuda alimentaria personas de la zona rural limítrofe de Asunción, que son atendidos en Centros de Salud y Guarderías Infantiles (PAEN).
Colonización de tierras en el área del Eje Norte	PMA PAR.434	216.000	III/1968-VII/1978	Apoyar al programa nacional de fomento rural en la incorporación y asentamiento de 2.200 familias (11.000 personas) en un período de 5 años, en una nueva área de colonización. Además se proporcionará ayuda alimentaria a personas que participan en la construcción del Centro de Adiestramiento de Choré y a los Comités de Agricultores del área del proyecto PAR/74/002

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Servicios Sociales

Código: 70

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Sistema de Cooperativas de Vivienda	OEA (ejecutado con la cooperación del Volunteer Development Corps de USA)	4.600 ^{1/}	Terminó en octubre 1977	Asesoramiento Instituto Paraguayo de Vivienda y Urbanismo. Un mes experto.
Curso de Dirigentes Sindicales.	Israel	2.900	1977	Beca de un mes en este campo para un participante.
Desarrollo de la Comunidad.	Holanda	481.513		Cuatro proyectos de asistencia en la zona central del Chaco en beneficio de población indígena. Las actividades incluyen asentamientos humanos; servicios de extensión ganadera y servicios de provisión de agua.
Ayuda alimentaria.	Holanda	15.454	1977	Provisión de leche en Polvo.
Desarrollo de Actividades Especiales.	USAID	49.000	desde 1964	Ayuda para llevar a cabo proyectos de desarrollo de la comunidad, que no figuran en el marco de los proyectos regulares de USAID.
Servicios Comunitarios.	USAID	50.000	IX/1977-IX/1978	Proporcionar asistencia técnica para aumentar la capacidad del CONEB y contribuir en el costo de la realización de programas de entrenamiento vocacional para mujeres y personas excepcionales.
^{1/} Estimado. Incluye el aporte del Volunteer Development Corps.				

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Transporte y Comunicaciones

Código: 75

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Estudio de la Navegabilidad del Río Paraguay al Sur de Asunción.	PNUD/OTC 1/ PAR/75/006 ARG/75/012	260.000	1976 - 1979	Proseguir con los estudios realizados en el proyecto anterior y capacitar al personal de la Administración Nacional de Navegación y Puertos en la realización de estudios y obras experimentales en el Río Paraguay.
Aviación Civil	PNUD/OACI PAR/75/004	69.535	1977 - 1978	Experto, becas y equipos para fortalecer los servicios de entrenamiento y apoyo a la aviación civil.
Establecimiento de un circuito de telecomunicaciones entre Asunción y Buenos Aires.	OMM (PAV) TE/2/1	5.000 (estimativo)	1977	Donación de Venezuela de un equipo ARG/TOR con seis canales.
Instalación y operación de una estación de radiosonda.	OMM (PAV) OB/1/1/2	5.000 (estimativo)	1977	Donación de los EE.UU. de América de equipo para instalación en el aeropuerto de Asunción.
Hidrometeorología.	OMM RLA/71/236	7.186	15/IV/1974-31/III/1979	Extensión de la beca concedida al Sr. Benjamín Grassi. Buenos Aires, Argentina.
Curso Adaptación Naval para Radiotelegrafistas	IMCO	748	14/III - 10/VI/1977	Beca concedida al Sr. Atilio Roa. Rio Janeiro, Brasil.
Seminario regional sobre radiocomunicaciones marítimas.	UIT RLA/75/012		17-19/X/1977	Beca concedida al Sr. Miguel Horacio Gini. Buenos Aires, Argentina.
Reunión de expertos en transportes.	CEPAL	332	29/XI-2/XII/1977	Invitación al Sr. Juan Delgadillo para asistir a esta reunión. Santiago, Chile
Estudios de factibilidad y diseños de caminos.	BID ATN/TF (SP) 1476-PF	256.000	31/I/1977-31/VII/1980	Elaboración de estudios de factibilidad y diseños finales de caminos vecinales y/o de acceso en los Departamentos de Alto Paraná y Canendiyú. Expertos: 65 m/h.
Asesores para telecomunicaciones	Rep. Federal de Alemania	144.000	1968 - 1979	Tres expertos para ANTELCO.
Asesor para la Administración Nacional de Navegación y Puertos.	Rep. Federal de Alemania	80.133	1975 - 1980	Un experto en Navegación fluvial.
Telecomunicaciones	Rep. Federal de Alemania	46.884	IV/1977-X/1978	Seis becas de 17 meses en la Rep. Federal de Alemania.
Mecánicos	Rep. Federal de Alemania	6.706	X/1977-X/1978	Dos becas de 12 meses en Bogotá, Colombia.
1/ De este aporte US\$ 185.000 fue financiado con cargo a la CIP de la Argentina.				

Proyectos y Actividades de Cooperación Técnica Externa en 1977

Sector: Transporte y Comunicaciones

Código: 75

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Mecánico.	Rep. Federal de Alemania	5.624	X/1977 - X/1978	Una beca de doce meses en la Rca. Federal de Alemania.
Quinto curso internacional de control de obras públicas.	Rep. Federal de Alemania	1.158	V/1977	Seminario de 26 días en Quito, Ecuador. (1 participante)
Construcción de camino	Argentina	300.000	1977	Proyecto ejecutivo del camino desde la Ruta Nº 12 hasta Villa Hayes y conexión con el Puente sobre el Río Paraguay.
Puente ferroviario-carretero entre Posadas y Encarnación	Argentina	4.000.000	1977- 1978	Proyecto ejecutivo del puente ferroviario-carretero entre Posadas y Encarnación.
Puente carretero sobre el Río Pilcomayo.	Argentina	20.000	1977	Estudio de factibilidad de un puente sobre el Río Pilcomayo a la altura Misión La Paz (Salta) Pozo Hondo (Paraguay).
Convenio Básico de Asistencia Técnica.	España	48.000	1977	Un experto trabajó durante este período en el Instituto Paraguayo de Telecomunicaciones de ANTELCO
Curso de Cooperativismo de transporte.	Israel	2.900	6 semanas (Octubre 1977)	Becas para dos participantes. Israel.
Construcción ruta.	Japón	700	27/X -12/XI/1977	Misión de un miembro del Fondo de Cooperación Económica Ultramar del Japón para realizar consultas sobre trámites del Préstamo para Ruta Acahay-La Colmena.
Programa de telecomunicaciones de ANTELCO	Japón	8.791	1977	Equipos para este programa.
Ingeniería telefónica en ondas portadoras.	Japón	6.590	12/V-22/VIII/1977	Beca en este campo concedida al Sr. Alán Arce Falcón. Japón.
Ingeniería de comunicaciones vía satélite (II)	Japón	6.359	18/VIII-21/XI/1977	Beca concedida en este campo al Sr. Juan Carlos Barrios. Japón.
Ingeniería de comunicaciones por microonda.	Japón	6.590	18/VIII-27/XI/1977	Beca concedida en este campo al Sr. Oscar Torres G. Japón
Visita a Institutos de Telecomunicaciones.	Japón	3.920	4-18/VI/1977	Beca al Sr. Carlos Gaona V. Japón
Experto en transmisiones	Japón	36.000	2/IV/1977-IV/1979	Un experto que presta asistencia técnica en este campo en ANTELCO.
Tesis Post-Grado	Venezuela	630	1977 (abril)	Tesis post-grado en Ingeniería de transporte en la Univ. de Los Andes a Osvaldo Gauto. Venezuela.

PRESTAMOS CONTRATADOS DURANTE EL AÑO 1977

Título de la actividad o proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Desarrollo Rural II.	BIRF (Nº 1418-PA)	22.000.000	1977/1994	Desarrollo Educación Rural. Administrado por el Consejo Nacional de Progreso Social.
Construcción y Pavimentación ruta Acahay-La Colmena.	Fondo de Cooperación Económica a Ultramar del Japón.	6.921.062	1977/1995	Construcción y pavimentación de la ruta Acahay-La Colmena. Fondo Administrado por el MOFC.
Puente sobre el Río Paraguay.	Estado Español	7.019.921	1977/1987	Crédito adicional para la construcción del puente sobre el río Paraguay. Administrado por el MOFC.
Crédito Industrial.	BIRF (Nº 1419-PA)	10.000.000	1977/1992	Proyecto de Crédito Industrial.
Importación de maquinarias y equipos.	Steyr-Daimler Puch AG de Viena, Austria.	2.000.000	1977/1984	Financiamiento de la importación de tractores, camiones y otras maquinarias y equipos
Importación de maquinarias Volvo.	Scandinaviska Enskilda Banken, Goteborg, Suecia	1.800.000	1977/1982	Financiamiento de las importaciones de productos de las fábricas de maquinarias del consorcio Volvo de Suecia.
Construcción de Viviendas.	Federal Home Loan Bank of New York	4.000.000	1977/2002	Financiamiento de construcción de viviendas de utilidad social en áreas rurales para prestatarios de escasos ingresos.
Plan Nacional de Telecomunicaciones.	Deutsch-Südamerikanische Bank	988.690	1977/1982	Provisión y ejecución de obras del Plan Nacional de Telecomunicaciones.
Instalación de equipos microonda y accesorios.	Standard Elektrik Lorenz AG.	7.995.636	1977/1986	Provisión e instalación de equipos de microonda y accesorios.
Plan Nacional de Telecomunicaciones.	Siemens AG.	7.899.467	1977/1986	Provisión y ejecución de obras del Plan Nacional de Telecomunicaciones.
Importación material de telecomunicaciones.	Lloyds Bank International Ltd.	981.729	1977/1980	Financiamiento importación de materiales de telecomunicaciones.
Importación equipos de telecomunicaciones.	Bank of America de Panamá.	2.000.000	1977/1982	Financiamiento de compras de equipos de telecomunicaciones
Lucha contra la fiebre aftosa.	BID (Nº 458-SF-PR)	3.200.000	1977/2016	Lucha contra la fiebre aftosa (2a. etapa). Administrado por SENALFA.
Adquisición de equipos camineros.	Banco do Brasil S.A. (CACEX)	500.000	1977/1987	Adquisición de equipos camineros. Administrados por el Instituto de Desarrollo Municipal.

PRESTAMOS CONTRATADOS DURANTE EL AÑO 1977

Título de la actividad • proyecto	Fuente de la asistencia	Asistencia asignada en 1977 (Costo en US\$)	Duración de la actividad o proyecto (fecha de comienzo y término)	Naturaleza de la asistencia y lugar en que se ejecuta/ ejecutó
Importación de camiones recolectadores.	Banco do Brasil S.A. (CACEX)	211.800	1977/1982	Financiamiento de importaciones de camiones con cajas reco- lectadoras. Administrado por la Municipalidad de Asunción.
Actividades Comerciales.	Lloyds Interna- tional Ltd. Inglaterra.	1.000.000	1977/1980	Financiamiento de actividades comerciales. Administrado por Shell Paraguay S.A.
Compra de equipos y maquinarias para Itaipú	Citibank NA. Nassau-Bahamas	4.500.000	1977/1979	Financiamiento compra de equi- pos y maquinarias para Itaipú. Administrado por CONEMPA.
Importación de maqui- narias.	Harris Corporation	238.313	1977/1982	Financiamiento importación de maquinarias. Administrado por el Diario Patria.
Explotación agrícola y forestal.	Cía Japonesa de Inversión Acei- tera de Itapúa S.A. Tokio, Japón	1.073.478	1977/1993	Explotación agrícola y gana- dera. Administrado por CAICISA.
Explotación agrícola y forestal.	Cía Japonesa de Inversión Acei- tera de Itapúa S.A. Tokio, Japón	1.132.704	1977/1992	Explotación agrícola y forestal. Administrado por CAICISA.
Explotación agrícola y forestal.	Cía Japonesa de Inversión Acei- tera de Itapúa S.A. Tokio, Japón	3.053.859	1977/1991	Explotación agrícola y forestal. Administrado por CAICISA.
Créditos a inmigrantes.	Gobierno del Japón	395.000	1977/1982	Crédito a los inmigrantes. Administrado por la Agencia de Cooperación Internacional del Japón en el Paraguay.
TOTAL		17.767.318		

ORIGINAL DIRECT

RECORDS CONTROL

30 NOV 1977

PAustin/cib
cc/ Mr. Ditchburn (+ enc.)

Mr. S. Vassiliou, Assistant Director-in-Charge
DPAS/CDPPP

25 November 1977

TE 321/1 PARAG
(1005)

Jan H. van Heerden, Chief
South America Section, The Americas Branch, OIC

PARAGUAY - Country Programme

.....

1. Please refer to the attached correspondence concerning the Second Country Programme for Paraguay and activities envisaged in the planning sector.
2. In response to the request for assistance in this regard, it would be appreciated if you would confirm whether the services of either Mr. Carlos Garcia-Tudero or Mr. A. Silvany can be made available for a short mission to Paraguay. You may wish also to suggest the timing most convenient for such an undertaking.

Mr. Jan van Heerden, Chief,
South America Section, AB/OTC

Mr. Simos Vassiliou, Assistant Director in Charge
DPAS/CDPPP

Augusto Silvany, Economic Affairs Officer
DPAS/CDPPP

RECORDS CONTROL

3 - NOV 1977

27 October 1977

TE 322/1 PARA

Paraguay - National Plan

This follows your routing slip of 20 October 77, enclosing 1 copy of the "Plan Nacional de Desarrollo Económico y Social, 1977-81" para Paraguay, in two volumes. We note however, that you are requesting we return it after having seen it.

We would like to explain that this Plan was directly requested by the mission led by Mr. Cristian Ossa to Paraguay. The Center for Development Planning keeps in its library copy of development plans from development countries. Therefore, we are asking you to keep in our library the above-mentioned document which will be essentially for supporting studies conducted by CDPPP.



ENCLOSURE ATTACHED

PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO
ASUNCION - PARAGUAY

Ref.: 1865



19 August 1977

RECEIVED IN	FILES CONTROL
26 AUG 1977	
ACTION TO:	
1	MR. BURNS
2	
3	
PUT AWAY	
INITIALS	
<input type="checkbox"/> BRING FORWARD	
ON	DAY MONTH YR.
TO:	

Dear Mr. Burns,

Subject: PARAGUAY - CPMP

TE 311 / 1 PARAG

..... In accordance with the instructions in Mr. Bradford Morse' circular (UNDP/PROG/HQTRS/102/Add.1 - UNDP/PROG/FIELD/86/Add.1) of 20 June 1977, on preparation and submission of Country Programme Management Plans (CPMP), I have the pleasure to forward two copies of the above document prepared by this Field Office, covering the period July 1977-June 1978.

We shall be happy to furnish any additional details on specific aspects of this Plan.

Yours sincerely,

Krishan G. Singh
Resident Representative of the United
Nations Development Programme
in Paraguay

Attachments
kept in OTC / JAS / AB

RECEIVED

AUG 29 1977

Mr. Findley Burns, Jr.
Director
Office of Technical Cooperation
United Nations
UN Plaza
New York, N.Y. 10017

THE AMERICAS BRANCH
OTC

OFFICIAL CORRESPONDENCE	CONTROL NO.
MUST BE RETURNED TO RECORDS CONTROL, ROOM 2074	8/807

PAustin/cib
cc: Mr. Robertson

ORIGINAL DIRECT

RECORDS CONTROL

3 - APR 1978

TE 311/1 PARAG

24 March 1978

Dear Mr. Singh,

PARAGUAY - Request for Assistance in Reviewing
Geological Studies

.....

We are providing herewith, for your attention, the report resulting from the mission undertaken to Paraguay in October 1977 by Mr. Donald Robertson in connexion with the above-cited request.

The delay in the submission of this report is much regretted. We will however be interested to learn of any comments arising from a review of the report.

Yours sincerely,

Jan H. van Heerden, Chief
South America Section
The Americas Branch
Office of Technical Co-operation

Mr. K.G. Singh
Resident Representative
UNDP
Asuncion, Paraguay

PARAGUAY

Mission Report

by

D.P. Robertson, Technical Adviser

Minerals Section

Energy and Mineral Development Branch

CNRET

24-28 October 1977

Early in 1977 the Government of Paraguay, through the Ministry of Defense, requested "the services of an expert of the United Nations to review existing geological studies and make recommendations for a future plan of action for the Geology Department of the Ministry with emphasis on iron ore and other metallic minerals". Three or four days were judged sufficient. The mission was eventually undertaken in conjunction with travel to other South American countries.

Itinerary

- | | | |
|----|---------|--|
| 24 | October | Arrival - meeting with Dr. Jorge Weiss, Acting Director of Departamento de Geología, Dirección de Industrias Militares (Dr. Weiss was the adviser's principal contact during the 4 day mission). |
| 25 | October | Meeting with Mr. Ricardo Tichauer, Deputy Resident Representative, UNDP, Asunción. |
| 26 | October | Discussion with Messrs. Aaberg and Rosholt (UNIDO), and Dr. Weiss, and the Manager of Anschutz Corporation, Mr. R. Bryant. |
| 27 | October | Meeting with Dr. K.G. Singh, Resident Representative, UNDP, and Dr. Weiss. |
| 28 | October | Discussion with General de Brigada R. Knopfmachen, Director, Industrias Militares. |
| 28 | October | Departure |

1. Departamento de Geología

The personnel structure is as follows:

Directorship

Director - on leave

Acting Director - Dr. Jorge Weiss (Chemist)

Professionals, other staff

5 Geologists 1 on fellowship, 4 on leave of absence

1 Petrologist

1 Chemist (on leave of absence)

1 Secretary

5 Part-time students

2. Field Work

While work was planned for 3 areas, (Yaguary and Yuty for iron and NEA an alkaline complex), only the first area was studied to any real extent, obviously due to the lack of staff. Fifty-one metres of drilling was performed in 1977 on Yaguary where it was demonstrated that the iron was contained in a 1.5 m. capping. The 51 metres represented all the drilling for the year. The drill is now indefinitely rented out to a hydroelectric power development.

3. Comment

As can be seen, there are no geologists on the team of the Department. Two years ago, at the time of a previous visit by the writer, there appeared to be some hope that the Department could form the nucleus of a Geological Survey. This is no longer so and, to all intents, the Department is practically stopped. Those geologists normally on staff are now employed full time, with greatly increased wages, at large hydro-electric developments.

At the Department the wages scale is much lower and the working day ends at noon in accordance with civil service practice. Other jobs are undertaken in the afternoon. No viable Geological Survey institution can function under this employment practice. This weakness is recognized by higher authorities, however, and when, in the future, functioning of the Department is resumed, full-time work and appropriate salary scales will be considered.

Consideration will also have to be given to increasing the total budget of the Department if it is to pursue its objective of searching out metallic minerals. There are differences of equipment and a lack of adequate training, i.e. - the first three years of the degree course has a natural science curriculum and only in the fourth year are studies directed to geology (mining courses).

Given the complete absence of experienced geologists, it is small wonder that the Acting Director is hard put to plan a 1978 programme. The fact is that the Department de Geologia is unlikely to function at all for some years because of the major factor described below.

Anschutz Corporation Activities

In late 1976 a decree was enacted by the Government which permits the above company to undertake exploration and exploitation over the whole of the country east of the Paraguay River. All minerals are sought with the exception of gravels, clays and limestone. Petroleum exploration is excluded, three companies being active in this field in the western Chaco area. Uranium may be explored for, but not exploited.

Discussion with the General Manager of the Paraguay operations of Anschutz was held during the mission. The company will conduct its exploration over a period of 7 years, during which time it will relinquish territory, retaining a maximum of 10% at the end of the period.

Modern search techniques will be used including an airborne magnetic and radiometric survey over the entire concession, if so indicated from reconnaissance geology now being carried out in conjunction with geochemical sampling. From other sources it is understood that a total of 10 geologists will be employed with other technicians and support personnel.

The airborne survey should enable any significant iron deposits, carbonatite deposits and radioactive mineralization to be found, and will assist in definition of the geological structure. It is proposed to carry out airborne electro-magnetic surveys, if so indicated, on closer spaced line intervals over areas of interest. Considerable drilling will be undertaken following target identification and the application of detailed geology and geophysical studies.

The implications are that this work will search for minerals with a capacity and thoroughness far beyond that of the Department for many years to come.

UNIDO Team Activities

A six-week study supported by UNIDO concluded at the time of this mission. It consisted of a geologist, Mr. Rosholt, and an economist, Mr. Aaberg, and the purpose was to review known showings and mining literature to determine which mineral indications could be developed which would require high levels of energy for their processing and utilization. Paraguay will have a surplus of hydro-electric power in a few years time

from Brazilian/Paraguay and Argentine/Paraguay developments on the Paraná River.

As noted in a progress report "It is obvious that no resources have hitherto been made available for a nationwide planned geological survey and that prospecting for minerals has been aroused only recently". Of course the systematic prospecting for minerals is now being conducted by Anschutz.

Discussion and Recommendations

It is apparent that Anschutz is carrying out a serious, intensive and well planned programme. Any hopes of the Government to inventory its mining resources must await the outcome of their work.

It is believed that the best interests of the country are being served in that intensive exploration for metals and non-metallic minerals will be conducted in a period which coincides with the development stage of the large hydro-electric plants. Hopefully energy intensive industries may be indicated based on mineral findings of the group, at the time when abundant electricity is available. It should be noted that the project is propitious because it is unlikely that a similarly well funded project could be mounted from either bilateral or multilateral sources. Many private multinational companies have reduced their exploration expenditures.

The writer, in an interview with General Knopfmacher at the conclusion of his visit, brought to his attention that fact that no national geologists are employed in the Anschutz project. It was recognized that the geologists being employed by the hydro-electric dam site contractors at very high salaries although on short time contracts were reluctant to leave these jobs to work for the Anschutz project and that the company was itself not in a position to compete with the salaries. Consideration was to be given to the idea of opening a couple of posts on the project, whereby a portion of the salary would be paid by the Department de Geologia. The opportunities for training on modern mining exploration techniques should not be missed by national geologists and the above procedure is very much recommended.

ORIGINAL DIRECT

PFrancisco/cib
cc: Mr. Silvany
Mr. Hansson

TE 322/1 PARAG

16 June 1977

Dear Mr. Singh,

Re: 1977 -1981 Country Programme (PARAGUAY)

Further to our letter of 31 May on the above subject, we are providing hereunder additional observations which you may wish to take into consideration in finalizing the Country Programme Document.

1. Upon reviewing the evaluation made of previous UN technical assistance during 1972 - 1976, we find that the UN assistance rendered in the field of development planning is not given proper recognition. OTC/DPAS projects in this field achieved: (a) the preparation of the previous economic development plan of Paraguay; (b) the organization of a unit to co-ordinate technical assistance in the Secretaría Técnica de Planificación (STP); (c) the preparation of the document on technical co-operation, including the development of a specific methodology for analysis and definition of technical assistance requirements and (d) training of planning officers, including a study-tour for the officer responsible for the co-ordination of technical co-operation.

2. In the area of development of minerals, we feel that more resources should be directed to this sector with a view to aiding the search for industrial minerals.

3. Finally, the Centre for Natural Resources, Energy and Transport has expressed their desire to collaborate in the execution of project PAR/75/002, a project which was formulated as a result of the findings of the UN water projects carried out in the Chaco region. It would doubtlessly be advantageous to draw upon the experience attained from our involvement in water exploration and development in the Chaco region for the last eight years, since water will represent one of the chief problem areas confronting the project.

Yours sincerely,

Jan H. van Heerden, Chief
South America Section
The Americas Branch
Office of Technical Co-operation

Mr. K.G. Singh
Resident Representative
UNDP
Asuncion, Paraguay

UNITED NATIONS



NATIONS UNIES

INTEROFFICE MEMORANDUM

MEMORANDUM INTERIEUR

TO: Mr. Jan H. van Heerden, Chief
A: South America Section, Americas Branch
Office of Technical Co-operation
Department of Economic and Social Affairs

DATE: 13 June 1977REFERENCE: TE 322/1 PARAGTHROUGH:
S/C DE:

FROM: Karl-Erik Hansson, Assistant Director *W-14*
DE: Centre for Natural Resources, Energy and Transport
Department of Economic and Social Affairs

SUBJECT: PARAGUAY - Country Programme for 1978-1981
OBJET:

Please refer to your memorandum of 9 May 1977. The project PAR 75/002, Desarrollo Regional Integrado Chaco, became possible as a result of the findings of the water projects we had executed earlier in the Chaco region. We have been involved in water exploration and development in the Chaco region for the last seven or eight years and water will form one of the chief problem areas of the present project. We now understand that the UNDP office in Asuncion has decided to terminate our existing project in July and carry out the water exploration and development in PAR 75/002 directly, by hiring experts and sub-contractors from neighbouring countries.

The project study of the navigability of the Paraguay River basin (PAR 75/006) is being executed by us and the request is a follow-up phase to be incorporated in the 1978-1981 UNDP programme.

We would like to draw the attention of the government to the present paucity of funds allocated for the development of minerals. It might be worthwhile from the point of view of future development to have a larger allocation for this sector with a view to aiding the search for industrial minerals.

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JUN 14 1977
CENTRAL AMERICA
CARIBBEAN AND REGIONAL
PROJECTS SECTION, AB/OTC

JUN 14 1977
SOUTH AMERICA SECTION
THE AMERICAS BRANCH
OTC

UNITED NATIONS



NATIONS UNIES

INTEROFFICE MEMORANDUM

MEMORANDUM INTERIEUR

TO: Mr. Jan van Heerden, Chief,
A: South America Section, AB/OTC

THROUGH: Mr. Simos Vassiliou, Assistant Director in Charge
S/C DE: DPAS/CDPPP

FROM: Augusto Silvany, Economic Affairs Officer
DE: DPAS/CDPPP

SUBJECT: Paraguay - Country Programme
OBJET: Paraguay - Country Programme

DATE: 9 June 1977

REFERENCE: TE 322/1 PAR

Augusto Silvany

1. We read with attention your letter of 31 May 1977 to Mr. Singh on the above-mentioned subject.
2. We found that the item on economic planning does not reflect well the emphasis placed in our memo on the lack of proper recognition of the UN assistance rendered on development planning.
3. We believe that we, as an executing agency, should explicit our views and ask the Resident Representative to introduce the changes necessary to correct an assessment which is unduly unfavourable to our work. It seems also that our perspective of the Country Programme should be presented as indicated in our memo of 16 May 1977 (attached).

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JUN 10 1977

SOUTH AMERICA SECTION
THE AMERICAS BRANCH
OTC

AS/ar

Mr. Jan van Heerden, Chief,
South America Section, AB/OTC

16 May 1977

TE322/1 PAR

Mr. Simos Vassiliou, Assistant Director in Charge
DPAS/CDPPP

Augusto Silvany, Economic Affairs Officer
DPAS/CDPPP

PARAGUAY - Country Programme - 1978-81 (US\$5,679,000)

1. We find it useful to comment upon the evaluation of the previous UN technical assistance in the period 1972-76 presented as part of the introduction of the above mentioned Country Programme. It seems that the assessment is biased by the facility of identifying the immediate objectives of those projects which were considered successful. We find that the assistance on economic development planning with results not easily tangible also reached several of its immediate objectives. OTC/DPAS projects of assistance on planning covered the following points: (a) the preparation of the previous economic development plan of Paraguay; (b) organization of a unit to coordinate technical assistance in the Secretaría Técnica de Planificación (STP); (c) preparation of the document on Technical Cooperation (mentioned in p.2 of the CP introduction), including the development of a specific methodology for analysis and definition of technical assistance requirements; and (d) training of planning officers, including a study-tour for the officer responsible for the coordination of the technical cooperation. In addition, the ongoing assistance in the preparation of the econometric model GUARANI/88 should be considered a natural evolution of the UN assistance on planning to Paraguay.

2. We believe that we should request that a proper recognition be made of these achievements in the CP text.

3. We have no comments on the CP general priorities, since they respond to a governmental decision. We take note of the decision to concentrate assistance in three "Areas of activity". It seems however that the CP does not explicit the philosophy embodied in the concept of "Integrated Rural Development" to guide those projects. We suggest that OTC also look for comments on this point from the Interdepartmental Task on Rural Development dealing with this question in the United Nations.

//

4. On our specific substantive area we notice with satisfaction that the Country Programme for the period 1978-81 contemplates the continuation of the assistance for the improvement of the planning techniques, particularly through the preparation and utilization of the econometric model GUARANI/77. This represents a new format in our technical assistance projects, not only because it gains more flexibility but also allows the mobilization of several staff members from CDPFP as well as the utilization of the computer facilities (given the known restrictions) and the data bank from ESA.

We call your attention to the importance of assuring the continuation of this assistance during 1977 to be intensified with the mission already programmed for end May-June 77.



PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO
ASUNCION - PARAGUAY

RECORDS CONTROL

26 OCT 1977

FE 342/1 PARAG

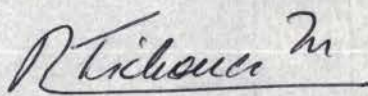
Ref.: 2282
PRO 300 CP.4

12 October 1977

Dear Mr. van Heerden,

..... Please find enclosed one copy of the National Plan for the Economic and Social Development of Paraguay (1977-1981), which I believe may be of interest to OTC.

Yours sincerely,

for 
Krishan G. Singh
Resident Representative of the United
Nations Development Programme
in Paraguay

Mr. J.H. van Heerden
Chief
Section for South America
Office for Technical Co-operation
United Nations
New York

RECEIVED

OCT 30 1977

SOUTH AMERICA SECTION
THE AMERICAS BRANCH
OTC

PRESIDENCIA DE LA REPUBLICA
SECRETARIA TECNICA DE PLANIFICACION

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**PLAN NACIONAL
DE DESARROLLO
ECONOMICO Y SOCIAL
1977 - 1981**

Tomo II

**OBJETIVOS, ESTRATEGIAS
Y POLITICAS GLOBALES
Y SECTORIALES**

DICIEMBRE, 1976



PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO
ASUNCION - PARAGUAY

1 copy for nt.

Ref.: 1279
PRO 300 CP.4

15 June 1977

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22 JUN 1977	
ACTION TO:	
1	MR. VAN HEERDEN
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ON	DAY MONTH YR.
TO:	

Dear Mr. *Jan* van Heerden,

Second Country Programme - Paraguay

TE 311/1 PARAG.

Thank you for your letter of 31 May concerning the above subject. We are reviewing your comments along with those received from other agencies, and will bring them to the attention of the government authorities as warranted.

Yours sincerely,

Krishan G. Singh

Krishan G. Singh
Resident Representative of the United
Nations Development Programme
in Paraguay

Mr. Jan H. van Heerden, Chief
South America Section
The Americas Branch
Office of Technical Co-operation
United Nations
New York

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JUN 24 1977

SOUTH AMERICA SECTION
THE AMERICAS BRANCH
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ORIGINAL DIRECT

PFrancisco/cib
cc: Mr. Muhammad



TE 322/1 PARAG

Dear Mr. Singh,

Re: 1977 - 1981 Country Programme (Paraguay)

.... Pursuant to our previous correspondence on the above subject, we are providing herewith detailed comments received from the Division of Public Administration and Finance concerning certain aspects of the Country Programme.

It would be appreciated if you would discuss with the Government officials concerned the recommendations contained in the attached and advise us in due course of their views in this regard.

Yours sincerely,

Jan H. van Heerden, Chief
South America Section
The Americas Branch
Office of Technical Co-operation

Mr. K.G. Singh
Resident Representative
UNDP
Asuncion, Paraguay

UNITED NATIONS



NATIONS UNIES

INTEROFFICE MEMORANDUM

MEMORANDUM INTERIEUR

TO: Mr. Jan van Heerden, Chief
A: South America Section, AB/OTC

DATE: 20 June 1977

REFERENCE: TE 322/1 PARAGUAY

THROUGH:
S/C DE:

FROM: Faqir Muhammad, Deputy Director-in-Charge of Research and Development
DE: Division of Public Administration and Finance

SUBJECT: PARAGUAY -Country Programme for 1978-1981
OBJET:

The Country Programme is linked to the National Development Plan for the period 1977/1981 and concentrates in rural development, human resources (social sector), and the financial infrastructure.

The concentration of technical assistance in the financial infrastructure is considered important by the Paraguayan Government due to the strategic role of the public sector in the development of the country and because of its foreseen increased participation during the planned period. One of the reasons for such increased participation is the foreseen growth of investments in the agricultural, industrial, health, education, and housing sectors. Within the financial infrastructure, the following projects have been identified:

- 1) Support to the Pre-investment Fund (PAR/74/015), to be executed by IBRD;
- 2) Technical assistance to the National Development Bank (PAR/76/013) to be executed by IBRD;
- 3) Data processing - Central Bank.

The Government is interested in obtaining technical assistance for the Central Bank in order to strengthen its data processing system, taking into account, first, that the increased role of the public sector will imply an expansion of the central bank's activities and, second, that in 1980 the central bank will move to its new building. On the first point we agree that the growth in the public sector investments will be translated in an increase in public expenditures which, through the multiplier mechanism will induce further expansions in the aggregate level of expenditures, thus involving high levels of monetary circulation. Such policies might require an improved use of the monetary mechanisms for which a sine qua non is the availability of timely and reliable data, on order to maintain up-dated indicators of current economic conditions and to develop useful behavioral models for monetary policy applications. Concerning the second point, we believe that the fact that the central bank is going to move to a new building, provides a valuable opportunity to revise and design new and more efficient systems which may not be operational under the present circumstances.

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JUN 21 1977

CENTRAL AMERICA
CARIBBEAN AND REGIONAL
PROJECTS SECTION, AB/OTC

In connection with the above mentioned requirements, this Division proposes to design and implement a project in data processing and information systems for central bank, which would have as main objectives: 1) the establishment of a data bank for the central bank; 2) the development of short-term economic indicators; and 3) the design of macro-economic behavioral models for monetary policy application. This project would have an expert in data processing for 24 months; an expert in macro-economic model building for 6 months; and a consultant in short-term economic indicators for 3 months. The project should start its activities in data processing at the beginning of 1979, in order to start the systems design and have them ready when the bank moves to its new installations. The services of both the expert on macro economic model building and short term economic indicators would be required in 1980. The overall contribution of UNDP for this project would be \$111,000. It is assumed that the Government would contribute the national counterpart personnel and the equipment.

Cleared: Mr. van Heerden
Ms. C.F. Korn

ORIGINAL DIRECT

P Francisco/cib
cc: Mr. Larrabure
Mr. Kandaswamy
Mr. Silvano

RECORDS CONTROL

10 JUN 1977

TE 341/1 PARAG

31 May 1977

Dear Mr. Singh,

Re: 1977-1981 Country Programme - Paraguay

We have reviewed with interest the Second Country Programme document for Paraguay submitted under cover of your letter of 28 April and are pleased to provide hereunder our detailed comments on certain aspects of the draft document:

I. Institutional Strengthening of the ONPS (Oficina Nacional de Progreso Social)

- (i) While the executing agency for this project has not as yet been determined, it should be noted that the United Nations provided technical assistance for the original formulation of the ONPS. Moreover, assistance was provided, both directly and through UNICEF, to the colonization project in Eje Norte.
- (ii) Since the ONPS will be in charge of all the integrated rural development projects in the country, we feel that it would be highly appropriate for the United Nations to provide the needed assistance to the ONPS.
- (iii) While it would be preferable to have the assistance channeled on the basis of inter-agency effort, since rural development projects are also assigned to other agencies, however, the ACC (Administrative Committee on Co-ordination) inter-agency effort is presently limited to six countries, which do not include Paraguay.
- (iv) The main objectives of the assistance contemplated include: improving the planning, evaluation and administrative capabilities of the ONPS - areas which fall within the technical competence of the United Nations. We feel strongly therefore that the U.N; should be designated as executing agency for the assistance required and are prepared to provide the services of a staff member to assist in the formulation of the project.

Mr. K. G. Singh
Resident Representative
UNDP
Asuncion, Paraguay

II. Assistance to the Planning System

- (i) While assistance provided so far in the field of economic development planning may not have given rise to significant results, it should be noted, however, that some success was attained in the realization of immediate objectives viz: the organization of the previous economic development plan of Paraguay; organization of a unit to co-ordinate technical assistance in the STP; and ongoing assistance in the preparation of the econometric model, GUARANI/77.
- (ii) Consequently, we strongly endorse continued assistance in this field for which provisions have been made available in the present Country Programme Document.

III. PAR/75/002 "Integrated Regional Development - Chaco"

- (i) We have taken note that this project, to be executed by OPE/UNDP will in particular seek "technical and economic alternatives for solving the problems of water supply, transport, cattle production and human settlements".
- (ii) We would be pleased to collaborate with OPE/UNDP on technical matters regarding the planning and design of rural settlements, an area which was strongly promoted in recommendations, provided by the Centre for Housing, Building and Planning, on the first draft of the Country Programme Document.

You may wish to bring the above comments to the attention of concerned officials, and inform us at the earliest convenience of their views on the recommendations outlined herein.

Yours sincerely,

Jan H. van Heerden, Chief
South America Section
The Americas Branch
Office of Technical Co-operation

UNITED NATIONS



NATIONS UNIES

INTEROFFICE MEMORANDUM

MEMORANDUM INTERIEUR

TO: Mr. Jan Van Heerden, Chief, South America Section
A: Office of Technical Co-operation

DATE: 27 May 1977

THROUGH:
S/C DE:

REFERENCE:

FROM: John Mathiason, Secretary of the Intra-departmental
DE: Task Force on Rural Development

SUBJECT: Comments on the draft Country Programme for Paraguay
OBJET: Comments on the draft Country Programme for Paraguay

We have reviewed the draft Country Programme for 1978-81. The priority given to rural development in that programme is self-explanatory. It can be noted that rural development as such revolves around five specific projects, the majority of which are executed by other agencies. We have no specific comments to make on these projects. One project, Institutional Strengthening of the Oficina Nacional de Progreso Social (ONPS) is of particular interest.

While the executing agency for this project has not yet been determined, it should be noted and so communicated to the Resident Representative that the United Nations provided technical assistance for the original formation of the ONPS. Moreover, we have provided assistance directly and through UNICEF to the colonization project in Eje Norte. Since the ONPS is being placed in charge of all the integrated rural development projects in the country, including those for which technical assistance is being provided by the World Bank and FAO, it would be highly appropriate for the United Nations to be considered for providing the necessary assistance to the ONPS for the new Country Programme.

While it would be preferable, to have assistance channeled on the basis of an inter-agency effort, for the short run the ACC inter-agency effort is limited to only six countries and does not include Paraguay. Since the main object of assistance to ONPS is improving that organizations planning, evaluation and administrative capabilities and these are areas in which the United Nations has competence, The United Nations should be named executing agency for the project. If necessary a staff member could be provided to assist in formulating the project. The specific requests for technical co-operation would determine the appropriate substantive office within ESA. For the time being, I would like to suggest that the project, substantively, be routed through the Intra-Departmental Task Force.

cc: Mr. van Hoek
Mr. Basu

UNITED NATIONS



NATIONS UNIES

INTEROFFICE MEMORANDUM

MEMORANDUM INTERIEUR

TO: Mr. Jan Van Heerden, Chief
A: South America Section
Office of Technical Co-operation

DATE: 18 May 1977

REFERENCE: _____

THROUGH:
S/C DE:

FROM: V. Kandaswamy, Officer-in-Charge
DE: Technical Co-operation Section (Africa and the Americas)
Centre for Housing, Building and Planning

SUBJECT: PARAGUAY - Country Programme for 1978-1981
OBJET:

1. Further to your memorandum of 9 May attaching a copy of the above-mentioned draft Country Programme document, we would comment only on Project PAR/75/002 - Desarrollo Regional Integrado, Chaco (page 13).

2. We would like to recall our recommendations on the first Country Programme cycle in which we suggested that consideration be given to the planning and design of rural settlements for the Government's programme of colonization in the Chaco.

3. We now note that this project, which is to be executed by the office of Projects Execution of the UNDP, will in particular, seek "technical and economic alternatives for solving the problems of water supply, transport, cattle production and human settlements".

4. Noting the latter, the Centre is prepared to assist UNDP/OPE on technical matters regarding human settlements in the rural context and would ask that this be brought to the attention of the Resident Representative and the UNDP office of Projects Execution.

5. The remaining content of the draft Country Programme does not touch directly on our sector.

RECEIVED

MAY 20 1977

SOUTH AMERICA SECTION
THE AMERICAS BRANCH
OTC

ORIGINAL DIRECT

AS/ar

Mr. Jan van Heerden, Chief,
South America Section, AB/OTC

Mr. Simos Vassiliou, Assistant Director in Charge
DPAS/CDPPP

Augusto Silvany, Economic Affairs Officer
DPAS/CDPPP

RECORDS CONTROL
17 MAY 1977

16 May 1977

~~TE322/1 PAR~~

TE 311/1 PARAG

PARAGUAY - Country Programme - 1978-81 (US\$5,679,000)

1. We find it useful to comment upon the evaluation of the previous UN technical assistance in the period 1972-76 presented as part of the introduction of the above mentioned Country Programme. It seems that the assessment is biased by the facility of identifying the immediate objectives of those projects which were considered successful. We find that the assistance on economic development planning with results not easily tangible also reached several of its immediate objectives. OTC/DPAS projects of assistance on planning covered the following points: (a) the preparation of the previous economic development plan of Paraguay; (b) organization of a unit to coordinate technical assistance in the Secretaría Técnica de Planificación (STP); (c) preparation of the document on Technical Cooperation (mentioned in p.2 of the CP introduction), including the development of a specific methodology for analysis and definition of technical assistance requirements; and (d) training of planning officers, including a study-tour for the officer responsible for the coordination of the technical cooperation. In addition, the ongoing assistance in the preparation of the econometric model GUARANI/77 should be considered a natural evolution of the UN assistance on planning to Paraguay.

2. We believe that we should request that a proper recognition be made of these achievements in the CP text.

3. We have no comments on the CP general priorities, since they respond to a governmental decision. We take note of the decision to concentrate assistance in three "Areas of activity". It seems however that the CP does not explicit the philosophy embodied in the concept of "Integrated Rural Development" to guide those projects. We suggest that OTC also look for comments on this point from the Interdepartmental Task on Rural Development dealing with this question in the United Nations.

//

4. On our specific substantive area we notice with satisfaction that the Country Programme for the period 1978-81 contemplates the continuation of the assistance for the improvement of the planning techniques, particularly through the preparation and utilization of the econometric model GUARANI/77. This represents a new format in our technical assistance projects, not only because it gains more flexibility but also allows the mobilization of several staff members from CDPPP as well as the utilization of the computer facilities (given the known restrictions) and the data bank from ESA.

We call your attention to the importance of assuring the continuation of this assistance during 1977 to be intensified with the mission already programmed for end May-June 77.



PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO
ASUNCION - PARAGUAY

Ref.: 877
PRO 300 C.P.4



Dear Mr. Burns,

Subject: PARAGUAY - Second Country Programme (1978-1981)

TE 311/1 PARAG

..... In accordance with the provisions of the Policies and Procedures Manual, please find enclosed 15 copies of the draft of the above-noted document. As you had been advised last year, the Government of Paraguay wishes to present the Second Country Programme for approval to the UNDP Governing Council at its January 1978 session.

The draft Country Programme, which has been prepared by the Planning Secretariat of the Presidency in collaboration with this Office, has the following principal characteristics.

- a) UNDP assistance has been linked closely to the National Development Plan (1977-1981); the Country Programme thus conforms to the priorities and development goals of the Plan.
- b) Within the above-noted development goals, three principal "Areas of Activity" have been identified wherein the Government considers that UNDP assistance can have greatest impact and cost effectiveness. These are:

- i) Integrated Rural Development in selected regions;
- ii) Development of human resources;
- iii) Strengthening of national investment mechanisms and of related public institutions;

A limited amount of resources are also assigned to other activities not falling specifically within the above three "Areas".

- c) As the second cycle IPF has been maintained at the same level (\$7.5 million) as the first one, and as this represents a reduction of UNDP assistance in real terms, it has been necessary to limit the number of "activity centers" (projects) in order to

Mr. Findley Burns
Director
Office of Technical Cooperation
United Nations
New York, N.Y.

ensure that adequate resources shall be available to each one, and thus secure maximum impact and achievement of identified objectives.

- d) Further limitation in the availability of UNDP resources has been caused by over-expenditure of 8% during the first cycle (some \$600,000 are to be deducted from the second cycle IPF to compensate for this). Thus, the annual average expenditure ceiling for the four years covered by the second Country Programme will be around \$1.3 million --beginning in 1978 with an amount lower than this average, and rising to a higher figure in the last year of the Programme.
- e) Some 25% of the available IPF resources are left un-programmed and will be assigned in the second half of the Programme, to on-going or new activities within the three Areas already identified for UNDP assistance (see (b) above).

Given the limited resources available, we believe the Government of Paraguay has prepared a Programme which seeks to apply UNDP assistance in the best way possible, directly to key areas and objectives of the National Development Plan.

As in the past, I am confident that we may count upon your most useful comments on this draft Country Programme, and close collaboration in its implementation.

Yours sincerely,



Krishan G. Singh
Resident Representative of the United
Nations Development Programme
in Paraguay

UNITED NATIONS
INTEROFFICE MEMORANDUM

NATIONS UNIES
MEMORANDUM INTERIEUR

RECORDS CONTROL

17 MAY 1977

TO: Mr. Simon A. Goldberg, Director
Statistical Office

Mr. Alagappa Alagappan, Assistant Director-in-Charge
Water Resources Branch, CHRET

Mr. Norbert F. Falzon, Assistant Director-in-Charge
Transport and Cartography Branch, CHRET

Mr. Simos G. Vassiliou, Assistant Director-in-Charge
Development Planning Advisory Services, CDPFP

Mr. Faqir Muhammad, Deputy Director-in-Charge
Division of Public Administration and Finance

Mr. Vaidyanathan Kandaswamy, Officer-in-Charge
Section for Africa and the Americas, CHBP

DATE: 9 May 1977

REFERENCE: TE 311/1
PARAG

FROM: Jan H. van Heerden, Officer-in-Charge
The Americas Branch, OTC *Jan H. van Heerden*

SUBJECT: PARAGUAY--Country Programme for 1978-1981

- 1. Provided herewith, for your attention, is a copy of the draft Country Programme document for Paraguay with respect to technical assistance envisaged for the period 1978-1981.
2. You may wish to provide general comments on the activities programmed or a more detailed evaluation of the sector which specifically falls within your substantive jurisdiction.



PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO
ASUNCION - PARAGUAY

RECEIVED IN RECORDS CONTROL	
4-MAR 1977	
ACTION TO:	
1	MR. VAN HEERDEN
2	
3	
<input type="checkbox"/> PUT AWAY	
INITIALS	
<input type="checkbox"/> BRING FORWARD	
ON	DAY MONTH YR.
TO:	

ENCLOSURE ATTACHED

Ref.: 429
PRO 301 Rec/Min

25 February 1977

Dear *Jan* Mr. van Heerden,

We have received a request from the Minister of Defense for the services of an expert of the United Nations to review existing geological studies in Paraguay and make recommendations for a future plan of action for the Geology Department of the Ministry with emphasis on ironore and other metallic minerals. A mission of at least three to four days of a consultant who is conversant in Spanish is required.

Please inform us if an adviser of the United Nations would be available for such a mission without cost to the IPF of Paraguay.

Yours sincerely,

K.S.

Krishan S. Singh
Resident Representative of the United
Nations Development Programme
in Paraguay

RECEIVED

MAR 4 1977

Mr. J. H. van Heerden
Chief
Section for South America
Office for Technical Co-operation
United Nations
New York

SOUTH AMERICA SECTION
THE AMERICAS BRANCH
OTC

OFFICIAL CORRESPONDENCE	CONTROL NO.
MUST BE RETURNED TO RECORDS CONTROL, ROOM 2674	3/441



MINISTERIO DE DEFENSA NACIONAL

Asunción, 10 de Febrero de 1977.-

SSE.Nº 48

Señor
Krishan G. Singh
Representante Residente del Programa
de las Naciones Unidas para el Desa-
rrollo en Paraguay,
Asunción.-

Tengo el agrado de dirigirme a usted,
con el objeto de remitirle, adjunto a la presente, foto-
copia de la Nota Nº 47/77 de fecha 2 de febrero corriente,
elevada a esta Secretaría de Estado por el Director de
Industrias Militares, Gral.de Brig. ROBERTO KNOPFELMACHER.

Aprovecho la oportunidad para saludar
a usted, con mi distinguida consideración.



MARCIAL SAMANIEGO
Gral. de Div. (SR),
Ministro

PNUD, Asunción
Fecha Recibida 14 FEB 1977

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Acción:



MINISTERIO DE DEFENSA NACIONAL
INDUSTRIAS MILITARES
DIRECCION
Asunción — Paraguay

2 DE FEBRERO DE 1977.

NOTA Nº : 47/77

OBJETO : SOLICITAR COMISION DE ASESORES.

AL : EXMO. SEÑOR MINISTRO DE DEFENSA NACIONAL
GRAL. DE DIV. DON MARCIAL SAMANIEGO
E S D.

TENGO EL HONOR DE DIRIGIRME A V.EXCIA., CON EL OBJETO DE SOLICITAR POR SU DIGNO INTERMEDIO Y DE ACUERDO A CONVERSACIONES MANTENIDAS POR ESTA DIRECCIÓN CON EL REPRESENTANTE RESIDENTE DE LAS NACIONES UNIDAS EN EL PARAGUAY ING. KRISHAN SINGH , EL CONCURSO DE UN ASESOR DE LAS NACIONES UNIDAS ESPECIALIZADO PARA ESTUDIAR Y ANALIZAR LA DOCUMENTACIÓN EXISTENTE SOBRE GEOMINERALOGÍA CORRESPONDIENTE A LOS TRABAJOS DE PROSPECCIÓN REALIZADOS POR EL DEPARTAMENTO DE GEOLOGÍA DE LA INSTITUCIÓN.

ASÍMISMO SE SOLICITA LA COMISIÓN DE UN CONSULTOR PARA REALIZAR EL ANÁLISIS DEL PROYECTO ACEPAR.

EN ESPERA DE UN DESPACHO FAVORABLE, HAGO PROPICIA ESTA OPORTUNIDAD PARA SALUDAR A V.EXCIA. MUY RESPETUOSAMENTE.



ROBERTO KNOPFELMACHER
GENERAL DE BRIGADA
DIRECTOR.

MVR.-

MINISTERIO DE DEFENSA NACIONAL	
DEPARTAMENTO MOVIMIENTO DE FUERZAS	
ENTRADA Nº.	1214
Asunción, 5 de Feb.	de 1977
ENCARGADO	114

24

TE

UNITED NATIONS



NATIONS UNIES

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

RECORDS CONTROL

15 SEP 1976

LERCHENFELDER STRASSE 1, A-1070 VIENNA, AUSTRIA

P.O. BOX 707, A-1011

TELEPHONE: 43 500

TELEGRAPHIC ADDRESS: UNIDO VIENNA

TELEX: 75612

P.A.

L.A.

REFERENCE:

TE 311/1. PARAGUAY

9 September 1976

Dear Mr. Baum,

In reference to your offer to field a geologist for a natural resources survey of Paraguay, that was in response to our proposal for the Centre for Natural Resources to become involved in our project, we are sorry to report that the Government of Paraguay has requested us to use the remainder of the funds for sub-contracting. We stated your proposal in a very lengthy cable to UNDP in Asuncion and wholeheartedly endorsed it; however, the response was negative. We also encountered another problem in that it is an SIS funded project, and funds from this source have now been expended for 1976, which means we will have to revive the project hopefully at the beginning of next year. We know that you put considerable thought into this as we did, and we regret it did not materialize.

Yours sincerely,

L. Babic

L. Babic

Chief

Industrial Planning Section
Industrial Operations Division

Mr. Vladimir Baum, Director
Centre for Natural Resources, Energy
and Transport
United Nations
New York, 10017
U.S.A.

NACIONES UNIDAS

PROGRAMA PARA EL DESARROLLO



ASUNCION - PARAGUAY

Mrs Francis CO
UNITED NATIONS
DEVELOPMENT PROGRAMME

Edificio City, 3er. Piso
Calle Estrella 345
Teléfonos: 43025 - 43026 - 43027



Referencia: 1841
PRO 300 DP.4

6 August 1976

Dear Mrs. Burns,

TE 311/1 Parag

PARAGUAY -- Country Programme for 1977-1981

This is in reference to our letter N° 1314 of 3 June 1976 with which we sent you the preliminary version of the Paraguay Country Programme to be presented to the UNDP Government Council at its January 1977 session.

Unfortunately, the Government has not had sufficient time --within the tight calendar to prepare the final text of this document and submit it to UNDP Headquarters by the beginning of August 1976-- to revise the preliminary version taking into account the comments received from the Ministries as well as from UNDP and the Specialized Agencies. Furthermore, UNDP Headquarters have recently informed us and the Government of Paraguay of the 1977 IPF expenditure ceiling which, at \$1.2 million, is much lower than the resource requirements identified by the Government in the above-noted preliminary version of the Country Programme. Taking this into account, the Government of Paraguay has officially requested and UNDP has accepted that the Second Country Programme, covering the period 1978-1981, be presented to the June 1977 session of the Governing Council. The period covered by the Programme will also thus coincide with that of the country's National Development Plan. We hope to send you the revised draft of the Country Programme as soon as it has been prepared by the Government.

Mr. Findley Burns, Jr.
Director
Office of Technical Cooperation
United Nations
New York, N.Y.

I should also like to inform you that we are consulting the Government regarding the "action plan" for 1977 in accordance with Mr. Patel's cable of 15 July 1976. As scheduled, the draft action plan of projects to be executed by your Agency in 1977, will be sent for your information and comments by the end of August 1976.

May I also avail of this opportunity to thank you once again for your cooperation and understanding and to hope that our relations will continue to be as close and cordial in the future.

With best regards,



Krishan G. Singh

Resident Representative of the United
Nations Development Programme
in Paraguay

NACIONES UNIDAS
PROGRAMA PARA EL DESARROLLO



ASUNCION - PARAGUAY

UNITED NATIONS
DEVELOPMENT PROGRAMME

Edificio City, 3er. Piso
Calle Estrella 345
Teléfonos: 43 025 - 43 026 - 43 027

Referencia: 1732
PRO 300 CP.4

Casilla: Correo 1107
Cables: UNDEVPRO
Telex: 218 PY UNDEVPRO

RECORDS CONTROL
3 - AUG 1976
ACTION TO:
1 MR VELAZQUEZ
2
3
29 de julio de 1976
IN
☐ BRING FORWARD
ON DAY MONTH YR
TO:

Estimado señor Velázquez-Muñoz:

Paraguay: Programa Nacional 1977-1981

Le agradezco sus comentarios y sugerencias enviadas en su carta del 7 de julio último sobre la materia en epígrafe, los que serán materia de discusión con el Gobierno.

El hecho de que las áreas que usted señala no han sido identificadas como críticas por el Gobierno, junto con las limitaciones financieras de la CIP para Paraguay, hacen improbable que dichas áreas sean incorporadas en la versión definitiva del Programa Nacional.

En todo caso, tendré mucho gusto en mantenerle informado sobre el particular.

Aprovecho la ocasión para saludarlo muy atentamente.

Krishan G. Singh

Krishan G. Singh
Representante Residente del Programa
de las Naciones Unidas para el Desarrollo
en Paraguay

RECEIVED

AUG 3 1976

SOUTH AMERICA SECTION
THE AMERICAS BRANCH
OTC

Señor J. G. Velázquez-Muñoz
Oficial Encargado para América del Sur
Subdirección para las Américas
Oficina de Cooperación Técnica
Naciones Unidas
New York, N.Y. 10017



ORIGINAL DIRECT

JGVelazquez-Muñoz/cib

cc: Mr. Ergun

RECORDS CONTROL

9 - JUL 1976

TE 3111/1 PARAG

~~TE 322/1 PARAG (100-5)~~

7 July 1976

Dear Mr. Tichauer,

Re: 1977 - 1981 Country Programme - PARAGUAY

Further to our letter dated 23 June 1976 we are pleased to provide below the observations presented by the Centre for Housing, Building and Planning:

" 1. No technical assistance has been proposed in the human settlements sector although the draft programme makes note of problems and needs in this field.

2. Housing: Paragraph 3.12 states that the Government is giving special attention to the population growth experienced by the more important urban centres and to the solution of problems in housing, health and education that have been created by the rural-urban migrations in certain regions of the country. Further reference is made to housing as a social problem in paragraph 3.29. Given these expressed concerns of the Government about problems of housing nationwide, we would suggest that a project of assistance for both urban and rural housing should be proposed. A pilot programme might well be conceived in the context of the Pilcomayo Region. See paragraph 3 following.

3. Urban Development: The regional development of the Cuenca del Río Pilcomayo by Paraguay, Bolivia and Argentina has given rise, as a consequence of major infrastructural investments, of important population shifts through immigration to the region, as well as internal rural-urban migration. Due to a heavy concentration on major capital projects, (the largest hydro-electric dam in Latin America, major transportation improvements, etc.) and insufficient attention to planned urban development and urban infrastructural investment, a condition of sociophysical imbalance has been introduced between infrastructure for economic development and that for social/physical development. We would recommend that consideration be given to redressing this imbalance by the provision of UNDP/OTC assistance to the Government for a large-scale project on human settlements planning and improvement in the

Mr. R. Tichauer
Resident Representative a.i.
UNDP
Asuncion, Paraguay

Pilcomayo Region. (Mention is made of this problem in a general sense in paragraph 5.4 of the draft programme).

4. Tourism: Paragraph 3.16 makes reference to the need to carry out studies related to the programming of various activities, including tourism. Paraguay has been attracting growing numbers of tourists each year. Development of the Pilcomayo will undoubtedly be a new focus of tourist attraction. The programming of Government activities in this sector, as well as of the orientation of private sector activities, could assist in increasing the net benefit to the country of tourism, which in 1973 was estimated to be US\$16 million a year in Asunción alone. We would recommend that a small-scale project be created to advise the Government on improved tourism planning and development, including studies of implications for tourism development projects in the Pilcomayo region.

5. The Centre would recommend that the Resident Representative be informed that a Technical Adviser in the human settlements field is proposed to be in Argentina in mid-August and could stop-over for tentative discussions on projects in this sector at that time. Given the problems identified by the Government in this field, our own observations, the lack of projects in the sector in the draft programme, and the proposal that \$2.1 million are retained for reserve purposes, we would suggest that assistance in the Second Country Programme should be definitely offered to the Government in this field."

Yours sincerely,

J.G. Velazquez-Muñoz
Officer-in-Charge
South America Section
The Americas Branch
Office of Technical Co-operation

UNITED NATIONS



NATIONS UNIES

INTEROFFICE MEMORANDUM

MEMORANDUM INTERIEUR

RECORDS CONTROL

9 - JUL 1976

DATE: 30 June 1976

REFERENCE: ~~TE 322/1~~

PARAG (100-8)

TE 311/1 PARAG

TO: Mr. J. G. Velazquez-Muñoz, Officer-in-Charge
A: South America Section, The Americas Branch
Office of Technical Co-operation

THROUGH:
S/C DE:

FROM: Evner Ergun, Chief
DE: Technical Co-operation Section (Africa and the Americas)
Centre for Housing, Building and Planning

SUBJECT:
OBJET: Country Programme - CHBP Comments on Draft Programme for Paraguay

1. As requested by Mr. Burns' memorandum of 4 June requesting our statement for the Agency comments on the draft country programme for Paraguay, it is submitted herewith.

2. No technical assistance has been proposed in the human settlements sector although the draft programme makes note of problems and needs in this field.

3. Housing. Paragraph 3.12 states that the Government is giving special attention to the population growth experienced by the more important urban centres and to the solution of problems in housing, health and education that have been created by the rural-urban migrations in certain regions of the country. Further reference is made to housing as a social problem in paragraph 3.29. Given these expressed concerns of the Government about problems of housing nationwide, we would suggest that a project of assistance for both urban and rural housing should be proposed. A pilot programme might well be conceived in the context of the Pilcomayo Region. See paragraph 4 following.

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/...

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6. The Centre would recommend that the Resident Representative be informed that a Technical Adviser in the human settlements field is proposed to be in Argentina in mid-August and could stop-over for tentative discussions on projects in this sector at that time. Given the problems identified by the Government in this field, our own observations, the lack of projects in the sector in the draft programme, and the proposal that \$2.1 million are retained for reserve purposes, we would suggest that assistance in the Second Country Programme should be definitely be offered to the Government in this field. //

with copy (cc. ECLA Santiago
of report) (Mr. Mazairac, Director, CESI/OPI
(Mrs. Korn, Deputy Director, The Americas Branch
(Mr. Vassiliou, Assist. Dir, DPAS/CDPPP
(Mrs. Francisco, PMO
(Mr. Iversen, Chief, Reports Section, OTC
(Interregional Registry
(Country Registry

Drafted: Y. Wade
Cleared: C. Convers (in draft)

cc. Mr. Baum
Mr. Doerner (for info.
Mr. Robertson)

TE 322/1 IR (111-1)

VIA POUCH

3 December 1975

Dear Mr. Bustamante,

Interregional Advisory Services in Resources Development
Report of Mr. D.P. Robertson

Reference is made to the assignment undertaken by the above-mentioned Interregional Adviser (Mineral Resources Development) during the period 23 September to 6 October 1975.

Mr. Robertson's report on his mission to Paraguay, which has been reviewed by our substantive colleagues and endorsed by ourselves, may now be forwarded to the Government. The report contains a draft Project Document for UNDP assistance in "Industrial Minerals Investigation", further processing of which will be between your office and the South American Section, The Americas Branch of OTC.

Accordingly, we attach six copies of the report, one being for your retention and the others for transmittal to the Government.

Yours sincerely,

John G. Ditchburn, Chief
Interregional and Regional Projects Section
Middle East, Mediterranean, Europe and
Interregional Projects Branch, OTC

Mr. Jose Bustamante
Resident Representative UNDP
Casilla de Correo 1107
Asunción, Paraguay

Report on Mission
to
Paraguay
by
D. P. Robertson
Interregional Adviser
Minerals Section
Energy and Mineral Development Branch
CNRET

23 September - 6 October 1975

1. The writer was in Paraguay during the above period in response to a request by the Government to proffer advice on the mineral sector.
2. In the absence of the Resident Representative, Mr. Bustamante, the writer was associated with the Deputy Resident Representative, Mr. Ricardo Tichauer. In his company and on other occasions, visits were made to officials of the Direccion de Industrias Militares and the Departamento de Geologia.
- 3. The attached Note and comments cover the activities performed by the writer in the course of the mission.

20 October 1975

PARAGUAY

Note on Mineral Development

Background

Institutions

Mining in Paraguay in every respect whether in academic training, operational institutions, applied geology and actual mining, has formed a minuscule part of the economy of the country.

The Universidad de Asuncion includes geology as part of a general science course. More recently the Instituto de Ciencias Basicas (ICB) has begun specialization in Geology in the third and fourth year classes leading to a degree in geology. The department is to be strengthened by added staff, and it will become a faculty of the Universidad of Asuncion.

No geologists are employed in the private sector. Within the Government, there are two organizations which are concerned with geology and mining. The Direccion de Recursos Naturales (Ministerio de Obras Publicas y Comunicaciones) is in charge of mapping and nominally in charge of industrial mineral prospecting though its main activities now are more related to petroleum exploration and search for road ballast materials. It is understaffed and underfinanced.

The Depto. de Geologia within the Direccion de Industrias Militares is concerned with practical field investigations and has or will shortly receive substantial equipment to augment its scant resources.

The personnel and equipment components of this entity are as follows:

Personnel

Chief of Dept.	Geology graduate of 1973
Acting Chief	Chemist graduate of 1962
Assistant Chemist	3rd year student
Geologist	Graduate of ICB 1974
Two Assistant Geologists	Students
Photo-geologist	Graduates in 1975
Physicist	Graduated 1973
Secretary, chauffeur and driller	

Equipment

One radio; one jeep; one diesel pick-up; two eight-ton trucks; one altimeters; one Wild stereoscope; two Wild binocular microscope; ^{two} magnetometers (proton precession) - various sample preparatory and laboratory equipment including an Atomic Absorption spectrophotometer (new); one new Sprague and Hemwood 40 cl. trailer-mounted diamond drill with AWL rods and casing, capacity 200 meters.

Regional Geology

The most recent and complete report on the geology of Paraguay is contained in a report entitled "Geology and Mineral Resources of Paraguay - a Reconnaissance, United States Dept. of the Interior (Eckel) 1959.

The country is divided into two distinct physiographic units, which are divided in a north-south direction by the Rio Paraguay. To the west there are vast accumulations of unconsolidated sediments in the Chaco and where possibilities of mineral occurrences, especially metallic, are very low, with the exception of salt, gypsum, petroleum whose potential is unknown.

Eastern Paraguay is characterized by a great variety of rocks whose ages range from Pre-Cambrian to Tertiary.

An anticlinal structure N-S structure coincides with the present Rio Paraguay basin. East of the anticline there is a gentle dip of basement rocks towards Brazil, while to the west there is a much steeper dip representing the east limb of a deep synclinal basin whose western limb rises in Bolivia to form the eastern slope of the Andes.

Just to the east of the anticlinal structure the Pre-Cambrian rocks are exposed in several places but mainly in two - the northern one near the confluence of Rio Apa and Rio Paraguay, and the second one in the south of Paraguay in the vicinity of Caapuci. Several other small exposures are known. Even the two larger general areas of rocks are frequently masked by soil and swamp.

The rocks are composed of gneiss, meta-sediments, metavolcanics, granites and porphyritic granite. These rocks are believed to be part of the Brazilian Shield. South of Rio Apa and flanking the Rio Paraguay the Pre-Cambrian is covered by disconformable formations of limestone, dolomites and argillaceous schists.

In general, from a north-south line in mid-east Eastern Paraguay, and extending far into Brazil, Argentina and Uruguay there is a vast area of sedimentary and volcanic (basalt) rocks. Isolated patches of these rocks extend as far west as Rio Paraguay. The eastern most part of the country is almost entirely Lower Cretaceous basalt. Part of the basalt area in the north-east is overlain by later sandstones.

Economic Geology

Industrial Minerals

Because the Pre-Cambrian rocks, which are a favoured host for intrusives and metallic deposits, are poorly represented, the potential for metallic minerals is low, whereas, because of the abundance of sediments, the non-metallic or industrial mineral potential is much higher. Eckel states "Paraguay possesses large quantities of certain non-metallic mineral resources, notably clays suitable for brick, tile and pottery; limestones and other raw materials for portland cement and lime; common and ornamental building stones; glass sand; talc; and mineral pigments" and later, "there are, however, good geologic reasons for hoping that worthwhile deposits of salt, gypsum and bauxite may yet be discovered".

Since 1959 when Eckel's report was published, there seems to have been little follow-up on his work either in exploration or industrial use and expansion. Industrial minerals which are within the country or conceivably can be found, are still imported. For this reason and because the government wishes to know its mineral resource potential in planning use of its impending large hydroelectric energy resources, a UNDP supported Industrial Mineral exploration project is being presented to the Government for its consideration. Since the industrial mineral potential far exceeds the metallic mineral potential, it should be given priority.

As the country is not mining conscious, an industrial mineral economist is provided for in order to emphasize the profitability of deposits studied and defined.

Metallic Minerals

Eckel gave careful consideration to the history of exploration and present activity in this field and to its potential, bearing in mind the geological environment. He concluded that "available facts indicate that Paraguay is very poor in mineral resources, except for certain non-metallic materials".

With one possible and perhaps important exception, the author agrees with Bokel. He further states that "so far as is known, nearly all the metallic deposits, as well as talc, actinolite, beryl and mica are associated with Pre-Cambrian rocks in the Rio Apa and Amambay regions (in the north) and in the general vicinities of Caapucu and San Miguel (south-east of Asuncion). This fact alone should limit the search to a very small part of the country's area" - he concedes that there may be fairly large areas of Pre-Cambrian rocks not shown on geologic maps. The writer considers this unlikely, or that if they exist, they are probably located near the Rio Paraguay and probably not exposed due to recent soil or swamp cover.

A number of professionals have visited the few metallic mineral 'ex-mines' and prospects, which by no coincidence, given the inaccessibility of much of the country, are located within easy access of roads. They have been known for decades and in the case of iron, exploited from small packets over 100 years ago. The writer visited the Lopez iron mine (near Caapucu) the Paso Pindo copper prospect (area Villa Florida) and the San Miguel talc mine. None of these appear promising, even though lack of drill equipment and expertise has handicapped investigations. Now that the Direccion de Industrias Militares has a new drill, this could be put to good use by drilling several holes in the Paso Pindo prospect to prove or disprove the deposit once and for all.

The exception to the general pessimistic outlook is the presence of alkali complexes and carbonatite formations that are located in the Pre-Cambrian series.

Carbonatites (General)

Carbonatites have been defined as "a carbonate rich rock of apparent magmatic derivation or descent" (Heinrich- The Geology of Carbonatites). About 300 occurrences or groups of occurrences of these types are known in the world. They consist of rock types similar to limestones and marbles but are of intrusive deep seated origin rather than sedimentary, and are noteworthy for the extraordinary wide-ranging exotic and at times rare and unusual minerals and elements that associate with them.

The carbonatites are associated with alkali (i.e. sodium and potassic-rich) rocks. The alkalic rocks themselves frequently form annular or ring-like structures which often are identifiable readily on aerial photographs, though

other times a concentric pattern is not developed. Carbonatites and their multimineral assemblages frequently form the central core of the annular alkali complexes or are found nearby. The central portion, because of softer composition, is weathered and appears as a caldera or depression.

Economically the carbonatites are and may be potential producers of such diverse mineral products as phosphate, iron, copper, barite, vermiculite, calcium carbonate, fluorite, titanium, rare earths, niobium, thorium, nepheline and zircon.

In a north to north-west trending zone between São Paulo and Goiânia in Brazil, at least seven alkali zones, some with carbonatites, have been investigated. Two of these, Araxá and Tapira, have large tonnages of niobium and phosphate as the result of concentration by weathering - 5.6 million tons of 3% Nb₂O₅ at Araxá and 8.7 million tons of 4.3% at Tapira. Barite and phosphate masses are present and were or are mined. Alluvial concentrated phosphate was mined at the Jacupiranga deposit near São Paulo.

At Tapira, the carbonatite is hidden by a thick cover of limonitic canga, a precautionary point in exploring these types of deposits.

Alkali complexes and Carbonatites in Paraguay

Eckel reported alkali complexes at Sapukai, Ybytymi, Acahay, Mbocayaty, Paraguari, but did not emphasize their importance. A large annular type complex occurs at Sarambi in the Depto. de Concepción. Phosphate is being extracted from a site at Chiriguelo north-east of Cerro Sarambi but the rock types and mineralization is not known. Both the latter places were viewed from the air by the writer while brief visits were made by vehicle to Sapukai and Acahay.

Sarambi has a markedly well developed ring structure with a diameter of about 7 kilometers. The crater-like core is about 3 kms. in diameter, within which carbonatites have been identified according to a brief study and report by Palmieri, Plugfelder, and Cuevas (1974). No annular form appears at Chiriguelo (also referred to as Cerro Cora) but it is significant that phosphate material is being extracted by open pits by Brazilians for use in Brazil. It is presumed to be crushed and ground for direct application to acid-rich soils in nearby Brazilian farmland.

The Sapukai complex was the subject of a doctoral thesis by Palieri (1973) but the economic aspect was not investigated. He suggested, however, that all of the volcanic centres could have, apart from their scientific interest, economic importance for exploitation of rocks and minerals. A study of the same area by Morinigo and Penago (1967) indicated a possibility for exploiting phosphorous in the form of apatite, because of its abundance in the rocks and soil.

Prospecting Methods for Carbonatites

Because most carbonatites are both magnetic and radioactive due to the presence of magnetite and thorium, sometimes uranium, magnetometry and radiometric methods are commonly used exploration tools. Many deposits which did not provide visual evidence of their presence by aerial photos, were detected in the 1950's and 1960's by airborne magnetic and radiometric surveys. Detail mapping of the alkali complexes may provide clues to concealed mineral assemblages in carbonatite zones but much trenching and deep diamond drilling on a detail close grid is required. Skilled interpretation of petrographic and chemical analyses of drill cores is necessary.

Conclusions and Recommendations

The alkali complexes of Paraguay have never been studied for their economic potential. It is believed that these may contain exploitable amounts of one or more of a variety of minerals, but the establishing of which will require skilled professional exploration-development techniques. There is a considerable risk involved that high expenditure will come to naught since many of these deposits in the world are not economic. For this reason, prudence dictates that initial investigations should be undertaken by a specialist in these rock types, one with an economic background and approach.

It is of interest to note that diamonds have been reported found in the Rio Cagata which runs south to join Rio Ypane just west of the town of Tacuatí - approximate co-ordinates, Long. $56^{\circ}32'W$, Lat. $23^{\circ}15'S$. This is not surprising in view of the close genetic relationship between carbonatites and kimberlites which are host for diamonds.

As it is believed that the objectives of the project proposed in 1972 for an Industrial Mineral Investigation are still valid, even more realistic now because of the emphasis the Government is placing on assessing its mineral resources for future planning, the draft project document was revised and submitted to the Resident Representative. A copy, with minor revisions, is attached.

The author strongly supported a change of counterpart to that of the Depto de Geología (DIM) because the MOFC (Dirección de Recursos Naturales) is the weaker of the two institutions and apparently more interested in petroleum exploration and road ballast material than industrial mineral exploration. He was told that the laboratory, such as it is, is not functioning. In any case, it is entirely unrealistic to divide mineral resources exploration into two agency functions. It is to be hoped that the Government can be persuaded to assign all mineral exploration to a strengthened Departamento de Geología; this is suggested as a prerequisite within the draft prodoc. Moreover, should it be decided to request assistance on the carbonatite occurrences mentioned above under IPF and should the industrial mineral project be expanded or revised to include metallic exploration, a single counterpart agency is logical.

The Departamento de Geología, moreover, has acquired a new medium sized diamond drill and some modern laboratory processing and analytical equipment. It is true also that its laboratory is still not functioning but it should be, in a modest way and for chemical analysis only, by January 1977. Nevertheless, as it will be some time before it operates efficiently and as it will not be able to do the special analysis and tests that will be required for such a project, provision has to be made from UNDP funds for that purpose and for check analysis.

Even this small project will strain the resources of the DIM personnel.

Limited exploration and reconnaissance on carbonatites would be justified, if financing from other sources is not available, because the Government would still be without sure knowledge of the value of the mineral showings so far studied (given the lack of expertise applied) or of its mineral potential elsewhere.

In such case, the proposed Industrial Mineral Project should be revised again and expanded to a limited extent to provide for a search for all minerals.

Indications so far are not hopeful for the discovery of metallic deposits. Such a project should therefore take the form of (a) incorporating the industrial mineral project components, and (b) providing two experienced geologists whose main activity would be field reconnaissance to establish the presence or absence of deposits other than those known so far, using geochemistry as indicated. Two drillers should be provided in the UNDP team.

Consultants in geophysics, geochemistry et al would be used as and if needed, rather than occupying posts; the project vehicles and other equipment would be provided by Government and UNDP according to needs of the project.

With respect to the draft Industrial Minerals project, it is suggested that, in view of the relatively short time remaining for the Government to know its industrial mineral potential and be in a position to define energy-intensive industries, the Government should consider doubling the manpower, i.e. to request two industrial mineral geologists and two associate experts. The rationale for this is that the project will require intensive field reconnaissance and the more professionals at work the better.

DRAFT

6 October 1975

UNITED NATIONS DEVELOPMENT PROGRAMME

Project of the Government of

PARAGUAY

Title: Industrial Minerals Investigation

Number:

Duration: 18 months

Sector: Natural Resources

Subsector: Mining

Government Co-operating Agency:
Departamento de Geología,
Dirección de Industrias Militares
Ministerio de Defensa

Executing Agency: United Nations-
Office of Technical Co-operation

Date of submission:

Starting date: 1 January 1977

Government contribution: \$4,188,000

UNDP Contribution: US\$134,000

Approved:

on behalf of the Government
(signature)

Date: _____

on behalf of the Executing
Agency
(signature)

Date: _____

on behalf of UNDP
(signature)

Date: _____

I. BACKGROUND AND SUPPORTING INFORMATION

A. Justification for the Project

Because of the overwhelming part that agriculture and cattle-raising pays in the economy of Paraguay, geology as a science and as a factor in the industrial life has never been important. Other than limestone for the cement industry no substantial mineral deposits have been located. There has been a lack of consciousness of the science and a lack of support at the educational level and the all important level of government finances. As part of the vicious circle, exploration of minerals of all types, and the means for doing it, has been always at a very low level.

Only recently at the Universidad Nacional de Asunción (Instituto de Ciencias Básicas) has emphasis to be given to geology apart from inclusion in a general science course. Institutionally there has been little support for applied geology. La Dirección de Recursos Minerales (DRM) under the Ministerio de Obras Públicas y Comunicaciones performs the function of a Geological Survey Service but has only two part time geologists and has a chronic shortage of equipment and mobilization. It is, nominally at last, in charge of non-metallic minerals affairs. La Dirección de Industrias Militares (Ministerio de Defensa, Dpto. de Geología) by decreto, is concerned with metallic mineral exploration. The DRM participated in the geological aspects of the Proyecto Aquidaban, sponsored by the Organization of American States which amongst other fields of investigation of the north-central area made a study of the non-metallic mineral resources, mainly limestone, of the northeast sector of the country.

That project now terminated, was of a reconnaissance nature, oriented towards pre-feasibility studies with the principle objectives of outlining the development of the soil and natural resources of that area. Little emphasis was placed on detailed study of the non-metallic deposits, except limestones, and only 18 man-months of field geology and 4 man-months of consultant time were planned in the Aquidaban project.

There is therefore no duplication in the proposal of this project with that sector of the Aquidaban project.

In a few years time two large hydro-electric plants will come on stream which will provide some 16,000 megawatts of electricity, of which one-half will be available to Paraguay. The Government is concerned to define those sectors which will be energy-intensive, one of these sectors is mining and the Government needs to be informed, by means of practical studies, to what extent the exploitation of mining resources will play a role on the use of its electrical energy capacity.

Because of the paucity of exploration in the country, very little is known of the mineral potential. There are few geology maps (none on the large scale) nor any topographic maps as yet although the country has been covered by aerial photography and topographic maps are being constructed by the Instituto Geográfico Militar.

Surveys have been made on iron and copper deposits by the Dirección de Industrias Militares with disappointing results. The geology maps that exist indicate that there are two main "windows" or areas of pre-Cambrian basement rock outcropping due to erosion near the crest of a broad anticlinal structure which axis parallels the east side of Rio Paraguay. Exploration in these areas is under consideration by the UNDP by means of a separate, non-conflicting project.

There are, however, indications of a wide variety of non-metallics, e.g. limestone, dolomites, kaolin, clays, silica, mica, gypsum, semi-precious stones, etc., whose extent and importance remain to be proved. Bauxite, in particular, uses large amounts of electricity when processed to aluminium. This mineral is formed from high alumina source rocks of a variety of types. The large area of basalt which covers most of eastern Paraguay does have a high aluminium content. Because of deep weathering and laterization, bauxite may have been formed and has been reported from a number of places but whether or not in sufficiently large bodies to be economic remains to be determined by field reconnaissance, drilling and analyses. (UNDP report 1970 - "Misión para el estudio del desarrollo de los recursos minerales" by Mr. Guillermo D'Aubarede - "Geology and Mineral Resources in Paraguay a Reconnaissance" by U.S. Department of Interior ECKEL, 1959).

Some of the other most obvious requirements in the industrial mineral field are: barite, gypsum, silica for glass industry, material for road aggregate, clay for the tile industry and for porcelain, and salt as a source for chloride in wood pulp processing.

The Government wishes to search out and develop these primary materials in order to advance the local industry, provide lower cost construction products and minimize the importation of these to save foreign exchange.

B. Institutional Framework

Because of its infrastructure to support a geological investigation, the counterpart agency will be the Departamento de Geología, Dirección de Industrias Militares (Ministerio de Defensa Nacional).

The Departamento de Geología has recently received modern drilling and laboratory equipment including an AAS though it lacks sufficient staff. This is composed of two geologists (one as Chief of the Departamento), a photo-geologist and several students. All are recent graduates and all are obliged to supplement their income by second jobs. Allowance must be made by the Government to supplement income for one geologist to enable him to work full time with the expert.

Vehicles are limited to three which are required for Departamento de Geología normal use - provision is made for UNDP supplied transport.

The laboratory of the Departamento is expected to be functioning at the start of this project, however it is limited to routine metallic element analyses and restricted petrographic studies. For this reason, it is requisite that assistance will be furnished by the laboratories of the Instituto Nacional de Tecnología y Normalización to the extent its facilities and programme permit. Specialized analyses not available in the country must be provided for from UNDP funds.

The project will not be geographically limited, i.e. prospects will be sought out and investigated wherever located in the country.

C. Provision for Government Follow-up

Investment Promotion Law No. 216 was promulgated in November 1970 to advance the economic and social development of Paraguay. This Act has numerous benefits encouraging the investment of foreign capital in industrial development of national primary products particularly where this could increase exports. Local capital would be encouraged to participate in the development of economic deposits by reason of the high import duties and high transport costs now incurred on imported fabricated products.

The potential of bauxite, which is probably the only non-metallic mineral which could result in a large energy-consumption industry, is wholly unknown. If economic amounts are located, it would be of greatest importance to the Government and the development to exploitation actively pursued.

D. Future UNDP Assistance

It is anticipated that the UNDP will participate in the search for metallic (and related) minerals either through the Revolving Fund for Natural Resources Exploitation or through a Country Programme project.

II. OBJECTIVES OF THE PROJECT

A. Long-range Objectives

The long-range objective of the Government is to strengthen the economy of the country by encouraging both labour intensive and energy intensive industries in the industrial minerals field as part of the development of economy as a whole.

B. Immediate Objectives

1. Because of the scarcity of manpower and equipment for the task and because expertise is required, an immediate objective is to obtain the services of an experienced industrial minerals geologist, properly equipped, to assist the Department of Geología (DIM) in the search for and evaluation of industrial minerals such as bauxite, aggregate ballast, clays, cement industry, raw materials, building stone, etc.

2. A second objective is, by means of consultant time of an industrial minerals economist, to select from findings, the industrial deposits that are most promising and with the intent of proving the viability of an economic industry, to have intensive studies made as to grade, quantity and quality (using the facilities of the Instituto Nacional de Tecnología y Normalización), the methods and costs of extraction, treatment, processing, capital requirements and marketing.

C. Investment Potential

There is investment potential for proved economic deposits, either through local capitalization or with foreign capital as described previously.

III. WORK PLAN

A. <u>Description of Project Activities</u>	<u>Starting Date</u>
(a) <u>Industrial Minerals Geologist</u>	1 January 1977
<p>The expert in close association with the assigned full-time national geologist, will review relevant literature prior to undertaking field reconnaissance searches for mineral deposits of economic importance. He will assist the Government in establishing priorities of minerals for which he is to search. He may be required to work also on known deposits which require better definition of grade, tonnage and quality.</p> <p>He will, in order to carry out these instructions be provided with transport, drilling equipment and other field necessities as outlined in this document. He will be the person responsible for the design and the carrying out of field programmes, for example topographic control, pitting, trenching, drilling, sampling, etc. and will guide the material testing to be conducted by the Instituto Nacional de Tecnología y Normalización and external laboratories. He will provide periodic progress reports, final technical reports on each deposit substantially investigated and a final summary report on termination of his mission.</p>	(18 months)
(b) <u>Consultant mineral economist</u> - to carry out the studies described herein.	4 months in 1975 as required
<p>The consultant mineral economist will prepare feasibility reports on most promising results of the project work consistent with the time at his disposal. In preparing this he will consider the feasibility parameters of the deposit, marketability, capital and production cost, relative to the size of the operation, tax structure and any other factors bearing on the question of the deposit as an economic proposition.</p>	

Both experts will be attached to the Dpto. de Geología (DIM)- and will collaborate with and report to the Chief of the Department and to the Director of the Dirección de Industrias Militares.

- (c) Associate Expert Geologist 1 January 1977
18 months

B. Description of UNDP Inputs

- | | <u>Starting Date</u> | <u>Duration</u> |
|---|----------------------|-----------------|
| 1. <u>Assignment of international staff</u>
<u>Industrial Minerals Geologist</u> | 1 January 1977 | 18 months |
| (a) <u>Qualifications:</u> Graduate degree in mining engineering or geology. Post-graduate courses in mines economics an advantage. | | |

Experience: Long experience in evaluating a variety of industrial mineral and rock deposits with familiarity in the use of material testing, analytical requirements, management experience in the industrial mineral field desirable.

- | | | |
|---|-------------|----------|
| (b) <u>Consultant Industrial Mineral Economist</u> | During 1978 | 4 months |
| Graduate in a branch of the geological science, preferably with post-graduate training-mineral economics. | | |

- | | | |
|--|----------|---------|
| (c) <u>Drill Supervisor</u> | May 1977 | 1 month |
| Experienced drill supervisor to instruct national driller on use of 15 drill.
(on temporary duty from other UNDP project) | | |

- | | | |
|---|----------------|-----------|
| (d) <u>Associate Expert Geologist</u> | 1 January 1977 | 18 months |
| He will work in close co-operation with and under the instruction of the Industrial Minerals Geologist. He will carry out field work and submit reports on his studies from time to time according to the requests of the Senior Geologist. | | |

2. UNDP provided supplies and equipmentCost
US\$Required Date

Note: Equipment must be ordered by the UNDP Office in Asunción and the technical adviser of H.Q. in order for its arrival to coincide with the arrival of the expert.

Expendable Equipment

Miscellaneous camping equipment and supplies.	3,000	1 January 1977
Diamond bits, shells, shoes	6,000	through 1978
Total expendable equipment	9,000	

Non-expendable Equipment

- Winkie GW-15 light drill and spares, equipped for auger drilling, B rod and casing, water pump, hosts, etc., spare motor. This portable drill provides versatility, work capacity and simplicity of operation. It is to be carried by UNDP pick-up.	24,000	1 May 1977
- Two <u>double traction</u> vehicles:		
1) One long-wheel base landrover or equipment personnel and supply carrier, with 10% spares, including tires.	5,500	1 January 1977
ii) One pick-up, standard with spares. To carry winkiedrill.	6,000	1 January 1977
iii) Ultraviolet light, miscellaneous laboratory equipment.	1,500	As required
iv) Sundry supplies.	500	1977-1978
TOTAL NON-EXPENDABLE EQUIPMENT COSTS	37,500	
GRAND TOTAL	46,500	

<u>Subcontracts</u>	<u>Cost</u> US\$	<u>Required date</u>
i. Supplement to national personnel (viáticos).	1,500	1974-1975
ii. Analyses outside Paraguay - checks analyses, petrographic, mineralographic, metallurgical testing etc.	8,000	1974-1975
	<u>9,500</u>	

Miscellaneous

Drill and vehicle maintenance and operation	2,000	1974-1975
Reports, sundry and UNDP direct costs	7,000	
	<u>9,000</u>	

C. Description of Government Inputs

1. Pre-requisite activities

The pre-requisite activities required are: (1) that there is made available data on industrial minerals studies undertaken by the Government prior to arrival of the expert and (2) that all Government inputs, i.e. personnel, equipment, premises, fuel necessities, etc. are arranged for before the start of the project (3) that the Government will designate the Departamento de Geología, Dirección de Industrias Militares, as counterpart agency, incrementing the normal budget of that entity to provide for the increased costs to be incurred through "in kind" contributions by that agency and (4) that as part of the "in kind" contributions, certain material testing, may have to be provided by the facilities of the Instituto Nacional de Tecnología y Normalización, the Government will provide for this.

2. Assignment of national staff (in kind)

<u>Post</u>	<u>Date</u> <u>Required</u>	<u>Duration</u>
(a) <u>National geologist</u>	1 January 1977	18 months
The geologist will be a full-time working partner of the international expert.		

	<u>Date Required</u>	<u>Duration</u>
(b) <u>Geologist's assistant/driver</u> A young and able high school student graduate with driving license, will be employed for the period of the project as a field and office assistant to the two geologists. He will, learning on the job, undertake elementary topographic surveying, taking and bagging samples, take care of camp logistics and do tasks which may be assigned him by the team members as required, in addition to acting as a driver.	1 January 1977	18 months
(c) <u>Secretary</u> The services of a secretary will at all times be available to the project staff when needed and may involve full-time duties in the report writing stage. Estimated to require 6 man-months in all.	1 January 1977 30 June 1978	
(d) <u>Driller</u> He will carry out auger and diamond drilling duties as requested by the international expert to whom he will report directly. He will be at the disposition of the project on a full-time basis or as required during his term of assignment in the project. He will be responsible for the field management and operation of the drill programmes, plans for the equipment under his control and for its security and repair. He will be in charge of the drill jeep and one general duty truck. He will personally operate the rig being assisted by labourers supplied by the counter-part agency.	1 May 1977	14 months

	<u>Date Required</u>	<u>Duration</u>
(e) <u>Truck drivers (2)</u> Two qualified, experienced truck drivers will be employed by DRM on behalf of the project. They will be responsible for vehicle operation and care and shall carry out any instructions given by the driller, such as assisting in loading and unloading, etc.	1 May 1977	1 1/2 months
(f) <u>Casual labour</u> An anticipated 100 man-months of casual labour is expected to be required in the project for a variety of duties, such as topographic survey work, pitting, trenching, cooking, drilling, assistance and sampling work. They will be employed by the counterpart agency and will be under the direction of the international expert or his designate.	1 January 1977	100 man-months

3. Government supplied equipment, supplies and premises (in kind)

Subcontract Laboratory Services

The Instituto Nacional de Tecnología y Normalización (INTN) has indicated its willingness to collaborate with the Dirección de Recursos Minerales for the analysis of samples taken during this project and for materials testing.

<u>Subcontract</u>	<u>When required</u>	<u>Cost(\$)</u>
Analyses and materials testing	1 January 1977	500,000

Description

Expendable:

Camp gear - The counterpart agency may be required to supply tents, cooking, gear, sample bags, note-books, etc. where	1 January 1977	100,000
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for any reason these items have not been supplied by the executing agency or are delayed in arrival, thereby affecting the progress of the project.

When required Cost (\$)

Non-expendable:

One truck - adequate in size to meet the fuel, supplies and personnel transport requirements of the drilling phase of the project operations and for other duties as necessary. Provided on a full-time basis. Replacement will be arranged in the event of breakdown so that project operations are not impeded.

1 May 1974 300,000
or as required

Water-pump - the counterpart agency will make available the water-pump the own for use with the drill, if necessary.

1 May 1977 85,000

TOTAL OF EXPENDABLE AND NON-EXPENDABLE EQUIPMENT

Premises

The counterpart agency will provide office space, office furniture and equipment such as draughting supplies, stationery, etc. The office will be located in Asunción or in another location if work so indicates.

1 January 1977 pour memoire

Garage and storage facilities will be provided.

Miscellaneous

Operations of vehicles and drill

The counterpart agency will assume the costs of fuel, lubricants, repairs and cost of replacement part (where these are unavailable from the UNDP component) and any other costs, e.g. licensing, insurance, etc. related to the functioning of the vehicles and drill.

Sundry

1 January 1977 85,000

Provision for Government costs of communications and contingency.

PROJECT BUDGET COVERING UNDP CONTRIBUTION

Country: Paraguay

Project No:

Title: Industrial Mineral Investigation

		<u>Total</u>		<u>1974</u>		<u>1975</u>	
		<u>m/m</u>	<u>US\$</u>	<u>m/m</u>	<u>US\$</u>	<u>m/m</u>	<u>US\$</u>
10.	<u>PROJECT PERSONNEL</u>						
11.	<u>Expert</u>						
11-01	Industrial Minerals Geologist	18	-	12	-	6	-
02	Mineral Economist Consultant	4	-	-	-	4	-
03	Drill Supervisor	1	-	-	-	-	-
04	Associate Expert	18	-	12	-	6	-
19.	Component Total	41	69,000	24	39,000	14	30,000
20.	<u>SUBCONTRACTS</u>						
21.	Supplement		1,500		1,000		500
22.	Analysis		8,000		5,500		2,500
29.	Component Total		9,500		6,500		3,000
40.	<u>EQUIPMENT</u>						
41.	Expendable equipment		9,000		5,500		3,500
42.	Non-expendable equipment		37,500		36,500		1,000
49.	Component Total		46,500		42,000		4,500
50.	<u>MISCELLANEOUS</u>						
51.	Operation vehicles and drill		2,000		1,400		600
52.	Reporting costs		2,000		-		2,000
53.	Sundry		1,000		700		300
54.	Direct costs		4,000		2,000		2,000
59.	Component Total		9,000		4,100		4,900
99.	GRAND TOTAL		134,000		91,600		42,400

PROJECT BUDGET COVERING GOVERNMENT COUNTERPART CONTRIBUTION IN KIND
(in local currency)

Country: Paraguay
Project No.:
Title: Industrial Mineral Investigation

	Total		1974		1975	
	m/m	\$	m/m	\$	m/m	\$
10. PROJECT PERSONNEL						
Geologist	18	765,000	12	510,000	6	255,000
Geologist's assistant/ driver	18	495,000	12	330,000	6	165,000
Secretary	6	60,000	2	20,000	4	40,000
Driller	14	266,000	8	152,000	6	114,000
Driver(2)	28	552,000	16	304,000	12	228,000
Casual labour (Viáticos included where applicable)	100	700,000	65	455,000	35	245,000
19. Component Total	184	2,818,000	115	1,771,000	69	1,047,000
20. SUBCONTRACTS		500,000		350,000		150,000
40. EQUIPMENT						
41. Expendable equipment		100,000		65,000		35,000
42. Non-Expendable equipment		385,000		220,000		165,000
43. Premises		pour memoire				
49. Component Total		485,000		285,000		200,000
50. MISCELLANEOUS						
51. Operation and Maintenance of equipment and vehicles		300,000		200,000		100,000
52. Sundry		85,000		60,000		25,000
59. Component Total		385,000		260,000		125,000
99. GRAND TOTAL		4,188,000		2,666,000		1,522,000

UNITED NATIONS



NATIONS UNIES

INTEROFFICE MEMORANDUM

MEMORANDUM INTERIEUR

RECORDS CONTROL

3 - OCT 1975

TO: Mr. Jan H. van Heerden, Chief
A: PRPS/ELAIPB/OTC

DATE: 25 September 1975

THROUGH: Mr. Vladimir Baum, Director
S/C DE: Centre for Natural Resources, Energy and Transport

REFERENCE: TE 311/1 PARAG

FROM: Geoffrey Robson, Chief
DE: Minerals Section, EMDB/ONRET

SUBJECT: PARAGUAY: Request for industrial minerals investigation
OBJET:

1. It does not make much sense to comment at this time upon the above noted request. Don Robertson will be in Paraguay within a week or two and will, no doubt, evaluate the request on the spot.

2. In any case, it is doubtful that there are any industrial minerals in Paraguay which could provide sufficient repayment to justify Revolving Fund aid. Aggregates, limestone, clays and building stone generally have a negligible value at the mine.

RECEIVED

01 OCT 1975

PRPS/ELAIP/OTC

ORIGINAL DIRECT

RECORDS CONTROL

16/9/75
JGV/ep

18 SEP 1975

16 September 1975

TE 311/1 PARAG

Mr. Geoffrey Robson, Acting Chief
Minerals Section
EMDB/CNRET

Jan van Heerden, Chief
Physical Resources Projects Section
ELAIB/OTC

Project Request for an "Industrial minerals investigation"
in Paraguay

- 1. Please find hereto attached copy of letter dated 5 September 1975 from the Resident Representative in Asunción together with a draft document for the project request under reference.
2. As you will note the possibilities for financing under the IPF do not seem very promising at the present moment and the Government has been advised to study alternatives such as the Revolving Fund.
3. In any event, we would appreciate receiving your views on the draft request which appears to be based, at least in part, on the recommendations made by Mr. Robertson during his mission to Paraguay
- in 1972. Copy of our reply to the Resident Representative is annexed hereto.

ORIGINAL DIRECT



TE 311/1 PARAG

16 September 1975

Dear Mr. Bustamante,

Subject: Project request for an "Industrial minerals investigation"

We are pleased to acknowledge receipt of your letter No. 2786 dated 5 September 1975 forwarding copy of a draft document for the request under reference.

A preliminary perusal of the document shows the absence of a budget for the UNDP Contribution which should be included whenever the request becomes more firm. In the meantime, the Technical Division has been requested to evaluate the document from a technical point of view.

We will be contacting you again to transmit all the observations which may be formulated at this end.

Yours sincerely,

Jan van Heerden, Chief
Physical Resources Projects Section
Europe, Latin America and
Interregional Projects Branch
Office of Technical Cooperation

Mr. José Luis Bustamante
United Nations Development Programme
Resident Representative
Casilla Correo 1107
Asuncion, Paraguay

cc. Mr. G. Robson, room tH 1336

ORIGINAL DIRECT

RECORDS CONTROL

SDP JIM/MIA

Mrs. Carmen F. Korn, Acting Deputy Director
Europe, Latin America and Interregional
Projects Branch
Office of Technical Co-operation

3 September 1975

L. Rybinov, Deputy Director
Technical Co-operation Branch
Centre for Housing, Building and Planning

TE 311/1 Parag

PARAGUAY - Second Country Programme - CHBP Proposals

1. As requested by your memorandum of 8 July 1975, we submit herewith our proposals for the Second Country Programme for Paraguay.
2. Urban Development Plan (PAR/72/003). A copy of the First Country Programme, as approved by the UNDP, is not available in the Centre, but a copy of the final version of the Country Programme as submitted by the Government of Paraguay for consideration by the Governing Council in June 1973 includes a project in the amount of \$75,000 (\$5,000 in each of the year 1973-1975, plus \$60,000 in 1976) for assistance in the elaboration of an urban development plan.
3. This project was cancelled, so we understand, during the First Programme period. Consideration could be given to proposing it for the Second Programme period if the conditions still prevail by reason of which it was originally programmed.
4. Alternatively, should further advice in this sector be indicated in the preparation of the Second Programme, the Resident Representative may be informed that there is a proposed mission to the region by a Centre staff member tentatively set for October. A short stopover could be arranged, if it is felt that this would be useful.
5. Tourism. We also understand that a small-scale project in Tourism Development (\$67,500) included in the First Country Programme was cancelled. Discussions on needs in this sector could also be included in the proposed Centre mission stop-over if required.

c.c. Mr. J. Van Heerden, Room 2410-A

ENCLOSURE ATTACHED

NACIONES UNIDAS
PROGRAMA PARA EL DESARROLLO



ASUNCION - PARAGUAY

Edificio City, 3er. Piso
Calle Estrella 345
Teléfonos: 43 025 - 43 026 - 43 027

Referencia: 2786

RECEIVED IN RECORDS CONTROL
UNITED NATIONS
DEVELOPMENT PROGRAMME
12 SEP 1975
ACTION 10:
Mr. Van Heerden
Casilla Correo 1107
Cables: UNDEVPRO
Telex: 218 PY UNDEVPRO
INITIALS 9/16/75
☐ BRING FORWARD
ON DAY MONTH YR

5 September 1975

TE 311/1 PARAG

Dear Mr. van Heerden,

..... A staff member of the "Dirección de Industrias Militares" (DIM) of the Ministry of Defense, in a visit paid to this office, submitted to us the attached draft project document. The objectives of the project would be to assist the DIM in their mineral resource survey activities and to provide them with the assistance of a geologist (for 6 to 12 months) and some equipment.

..... Subsequently, Gen. Roberto Knopfelmacher, Director of DIM, wrote the enclosed letter, requesting the technical assistance mentioned above.

..... I have replied to Gen. Knopfelmacher that our IPF is heavily committed at the moment but that we might be in a position to consider their request as soon as the financial situation permitted it (copy of my letter attached).

I would like to point out that this interest of the Government in natural resources surveys is not new, dating back to 1972, when Mr. Robertson of OTC came to Paraguay on mission, at the end of which he left an interesting report with the Ministry of Public Works.

The availability of natural resources is vital for Paraguay's industrialization efforts and is of crucial importance to be able to utilize its future hydroelectric power (Itaipú and Yacyretá power plants on the river Paraná).

Mr. J. H. van Heerden
Chief, Physical Resources Section
Europe, Latin America and
Interregional Projects Branch
OTC
United Nations, New York

OFFICIAL CORRESPONDENCE
MUST BE RETURNED TO
RECORDS CONTROL ROOM 2074
CONTROL NO.
9/318

RECEIVED

15 SEP 1975


PRPS/ELAIP/OTC

Ref.: 2786
PAR/74/008

We are requesting the Government to look into the merits of the UN Revolving Fund for Natural Resources and to let us know whether they are interested in participating.

Please consider this letter as a reminder of the fact that these aspects of natural/mineral resource surveys are still of keen interest to the Government. We will be glad to take up the matter again as soon as the financial situation allows us to do so. In the meantime I should appreciate receiving your comments on the attached proposal.

Yours sincerely,


for José Luis Bustamante
Resident Representative

2549

PAR/74/008

18 de agosto de 1975

De mi consideración:

Tengo el agrado de referirme a su carta 119/75 del 17 de junio de 1975 dirigida al señor Francis Christensen, Director del proyecto "Instituto Nacional de Tecnología y Normalización".

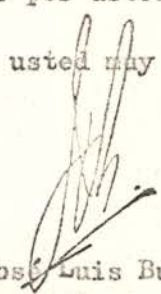
El señor Christensen tuvo la gentileza de referir su solicitud, para la consideración de la financiación de un geólogo por seis meses, al Programa de las Naciones Unidas para el Desarrollo.

Estoy plenamente de acuerdo con usted que es de mucha importancia asesorar al país en su búsqueda de recursos naturales.

Sin embargo, lamento tener que informarle que los fondos del PNUD disponibles para el Paraguay, están totalmente comprometidos hasta el fin del año 1976, razón por la que no podemos considerar en este momento la asistencia requerida en su solicitud.

Usted puede estar seguro que, una vez aliviada la situación con respecto a la disponibilidad de fondos, el PNUD tendrá el mayor interés en colaborar con el Gobierno en el campo indicado por usted.

Aprovecho esta oportunidad para saludarle a usted muy atentamente.


José Luis Bustamante
Representante Residente

Gral. Roberto Knopfelmacher
Director
Dirección de Industrias Militares
Asunción
RVV/nb

cc: Dr. Wiss (DIM)
Sr. Christensen
Sr. Fitzpatrick
Dr. Martino



MINISTERIO DE DEFENSA NACIONAL
INDUSTRIAS MILITARES
DIRECCION
Asunción — Paraguay

29 DE AGOSTO DE 1975.

NOTA Nº 180/75

SEÑOR

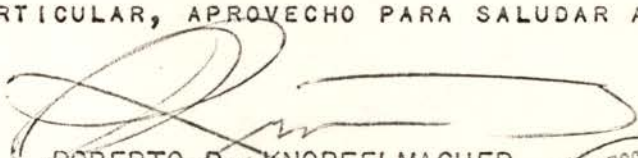
REPRESENTANTE RESIDENTE DE LAS NACIONES UNIDAS
DON JOSE LUIS BUSTAMANTE
P R E S E N T E

TENGO EL AGRADO DE DIRIGIRME A USTED, CON EL OBJETO DE ACUSAR RECIBO A SU ATENTA NOTA 2549 DE FECHA 18 DE AGOSTO DEL CORRIENTE AÑO, EN LA CUAL REFIERE LA SOLICITUD PRESENTADA POR EL SEÑOR CHRISTENSEN PARA LA CONSIDERACIÓN DE LA FINANCIACIÓN DE UN GEÓLOGO POR SEIS MESES, AL PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO, Y QUE ÉSTE NO PODRÍA CONSIDERAR EL ASUNTO POR ENCONTRARSE SUS FONDOS COMPROMETIDOS HASTA FINES DE 1976.

ESTAS GESTIONES SE HAN INICIADO POR INDICACIÓN DEL INGENIERO SPIESSMAYR, EN OPORTUNIDAD DE SU VISITA A ESTA INSTITUCIÓN.

AL AGRADECERLE LA ATENCIÓN PRESTADA AL ESTUDIAR EL ASUNTO, QUEDO A LA ESPERA DE LA CONSIDERACIÓN DEL MISMO.

SIN OTRO PARTICULAR, APROVECHO PARA SALUDAR A USTE MUY ATENTAMENTE.


ROBERTO P. KNOPFELMACHER
GENERAL DE BRIGADA
D I R E C T O R



RPK/CPA.

Handwritten notes and stamps on the right margin:

- Stamp: 29 AUG 1975
- Handwritten: 242/74/008
- Handwritten: 12m 29/8
- Handwritten: ul 1/9
- Handwritten: h.w. 1/7
- Stamp: Asunción

Pro-Forma Document

UNITED NATIONS DEVELOPMENT PROGRAMME

Project of the Government of
PARAGUAY

Title: Industrial Minerals Investigation Duration: One year, 6 months

Number:

Sector: Natural Resources

Sub-sector: Mining

Government Co-operating Agency:
Ministerio de Obras Publicas
(Dirección de Recursos Minerales)Executing Agency: United Nations
Office of Technical Co-operation

Date of Submission:

Starting Date: 1 January 1974

Government Contribution:
\$ 4,194,200UNDP Contribution:
US\$ 85,000Approved: _____
on behalf of the Government
(signature)

Date: _____

on behalf of the Executing Agency
(signature)

Date: _____

on behalf of UNDP
(signature)

Date: _____

1. BACKGROUND AND SUPPORTING INFORMATION

A. Justification for the Project

Because of the overwhelming part that agriculture and cattle-raising plays in the economy of Paraguay, geology as a science and as a factor in the industrial life has never been important. Other than limestones for the cement industry no substantial mineral deposits have been located. There has been a lack of consciousness of the science and a lack of support at the educational level and the all important level of government finances. As part of the vicious circle, exploration for minerals of all types, and the means for doing it, has been always at a very low level.

Only recently at the Universidad de Nacional de Asunción (Instituto de Ciencias Basicas) is emphasis to be given to geology apart from inclusion in a general science course. Institutionally there has been little support for applied geology. La Dirección de Recursos Minerales under the Ministerio de Obras Publicas performs the function of a Geological Survey Service but has only three geologists (out of a country total of half-a-dozen) and has a chronic shortage of equipment and mobilization. La Dirección de Industrias Militares (Ministerio de Defensa) has interested itself in metallic mineral exploration while La Dirección de Recursos Minerales has endeavored to start an assessment of the non-metallic industrial minerals of the country. It participates in the geological aspects of the Proyecto Aquidaban, sponsored by the Organization of American States which amongst other fields of investigation of the north-central area will make a study of the non-metallic mineral resources of the northeast sector of the country.

This project however, is of a reconnaissance nature, oriented towards pre-feasibility studies which were indicated with the principle objectives of outlining the development of the soil and natural resources of that area. Little emphasis is placed on detailed study of the non-metallic deposits, except limestones, and only 18 man-months of field geology and 4 man-months of consultant time is planned in the Aquidaban project. 18 man-months are designated towards mineralogy and petrographic studies.

There is therefore no duplication in the proposal of this project with that sector of the Aquidaban project.

La Dirección de Recursos Minerales has a working agreement with the United-Special Fund supported Instituto Nacional de Tecnología y Normalización for material testing and has concentrated on clay sources for the industrial market insofar as it has been possible.

Because of the paucity of exploration in the country, very little is known of the mineral potential. There are few geology maps (none on the large scale) nor any topographic maps as yet although the country has been covered by aerial photography and topographic maps are being constructed by the Instituto Geológico Militar.

Surveys have been made on iron and copper deposit by the Dirección de Industrias Militares with disappointing results. The small scale geology maps that exist indicate that there are perhaps a dozen "windows" of pre-Cambrian basement rock outcropping due to erosion near the crest of a broad anticlinal structure which axis parallels the east side of Rio Paraguay. These areas are to be investigated by a bilateral programme between Argentina and Paraguay.

There are, however, indications of a wide variety of non-metallics, e.g., limestone, dolomites, kaolin, carbonatites, clays, silica, mica, gypsum, semi-precious stones, etc., whose extent and importance remain to be proved. (UNDP report 1970 - "Misión para el estudio del desarrollo de los recursos minerales" by Señor Guillermo D'Aubarede.)

Some of the most obvious requirements in the industrial mineral field are: the defining of quantity and quality of limestone for enlarging the cement industry, an urgent necessity to look for sources of phosphate for the fertilizer industry, silica for a glass industry, material for road aggregate, clay for the construction of tile industry.

The Government wishes to search out and develop these primary materials in order to advance the local industry, provide lower cost construction products and diminish the importation of these to save foreign exchange.

It requires expertise in this field to do so and an industrial minerals geologist on a 1 1/2-year term would greatly assist the Government.

B. Institutional Framework

The responsibility for the exploration and defining of industrial minerals is that of the Dirección de Recursos Minerales under the Ministerio de Obras Públicas. Materials testing and analyses is one of the functions of the Instituto Nacional de Tecnología y Normalización which is very well equipped, although lacking certain petrographic and metallogenic equipment. Assistance and working co-operation may be expected also from the Instituto de Ciencias Básicas de la Universidad Nacional de Asunción.

Admittedly the Dirección de Recursos Minerales does not have strong financial backing and is weak in manpower and equipment. [Insert here number of geologists, principal office and laboratory facilities, main items of equipment.]

C. Provision for Government Follow-up

Investment Promotion Law No. 216 was promulgated in November 1970 to advance the economic and social development of Paraguay. This Act has numerous benefits encouraging the investment of foreign capital in industrial development of national primary products particularly where this could increase exports. Local capital would be encouraged to participate in the development of economic deposits by reason of the high import duties and high transport costs now incurred on imported fabricated products.

D. Other Related Activities

As mentioned the Aquidaban project plans a limited amount of study of industrial minerals in the northeast sector of Paraguay. In addition the Dirección de Recursos Minerales has completed the following work [insert here the type, amount and place of previous work on industrial minerals completed by the DFM].

E. Future UNDP Assistance

None envisaged.

II. OBJECTIVES OF THE PROJECT

A. Long-range Objectives

The long-range objective of the Government is to strengthen the economy of the country by encouraging labour intensive small industries in the industrial minerals field as part of the development of the mining industry as a whole, thereby reducing the burden of foreign exchange for the importation of these products.

B. Immediate Objectives

1. Because of the scarcity of manpower and equipment for the task and because expertise is required, an immediate objective is to obtain the services of an experienced industrial minerals geologist, properly equipped, to assist the Dirección de Recursos Naturales in the search for and evaluation of industrial minerals such as phosphate, aggregate ballast, clays, cement industry, raw materials, building stone, etc.

2. A second objective is, by means of consultant time of an industrial minerals economist, to select from findings, the industrial deposits that are most promising and with the intent of proving the viability of an economic industry, to have intensive studies made as to grade, quantity and quality (using the facilities of the Instituto Nacional de Tecnología y Normalización), the methods and costs of extraction, treatment, processing, capital requirements and marketing.

C. Investment Potential

There is investment potential for proved economic deposits, either through local capitalization or with foreign capital as described previously.

III. WORK PLAN

A. Description of Project Activities

Starting Date

- a. Industrial minerals geologist - the expert in close association with the full time national geologist assigned, will continue and expand the studies already underway by the DEM and will investigate other studies which interest the Government carrying them forward to the point of determining economic viability or rejection.

1 January 1974
(18 months)

Specifically the types of minerals of greatest interest are [insert here the names and locations of deposits requiring better definition of grade, tonnage and quality and other industrial minerals for which there is a need and which the Government wishes to investigate].

He will, in order to carry out these instructions be provided with transport, drilling equipment and other field necessities as outlined in this document. He will be the person responsible for the design and the carrying out of field programmes, for example topographic control, pitting, trenching, drilling, sampling, etc. and will guide the material testing to be conducted by the Instituto Nacional de Tecnología y Normalización. He will provide periodic progress report, final technical reports on each deposit substantially investigated and a final summary report on termination of his mission.

- b. Consultant mineral economist - to carry out the studies described herein.

4 months in 1975
as required

The consultant mineral economist will prepare feasibility reports on most promising results

of the project work consistent with the time at his disposal. In preparing this he will consider the feasibility parameters of the deposit, marketability, capital and production cost, relative to the size of the operation, tax structure and any other factors bearing on the question of the deposit as an economic proposition.

Both experts will be attached to the Dirección de Recursos Naturales and will collaborate with and report to the Director de Recursos Minerales (Ministerio de Obras Públicas).

B. Description of UNDP Inputs

1. Assignment of international staff

a. Industrial Minerals Geologist

<u>Job Description</u>	<u>Starting Date</u>	<u>Duration</u>
Qualifications: Graduate degree in mining engineering. Post-graduate courses in mines economics and advantage. Training in geology, engineering geology or mining engineering to degree standards.	1 Jan. 1974	One year, with possible 6 months extension

Experience: Experience in evaluating a variety of industrial mineral and rock deposits with familiarity in the use of materials testing, identification of minerals with microscopic techniques.

2. UNDP provided supplies and equipment

Note: Equipment must be ordered by the UNDP office in Asunción in order for its arrival to coincide with the arrival of the expert.

Expendable Equipment

	<u>Cost (US\$)</u>	<u>Required Date</u>
Miscellaneous camping equipment and supplies.	\$ 1,000	1 Jan. 1974 thru 1 Jan. 1975

Non-expendable Equipment

1. Winkie GW-15 light drill and spares, equipped with auger, B rod and casing, and diamond bits for 100' depth penetration. This portable drill provides versatility, work capacity and simplicity of operation. It is to be mounted on a jeep within the country.	15,000	1 May 1974
2. Two double traction vehicles:		
(a) One long-wheel base landrover personnel and supply carrier, with spares.	4,000	1 Jan. 1974
(b) One Willys Jeep-open platform standard with spares. To mount Winkie drill. The mobile drill will greatly increase the quality and rapidity of investigating deposits.	3,000	1 Jan. 1974
3. Microscopes - 3 objective petrographic metallographic, illuminator light.	2,500	1 Jan. 1974
4. Ultraviolet light, balance, miscellaneous laboratory equipment.	800	1 Jan. 1974
5. Sundry supplies	500	1974-1975
 TOTAL EQUIPMENT COSTS	 \$ 26,800	

C. Description of Government Inputs

1. Pre-requisite activities

The pre-requisite activities required are: (1) that there is available data on industrial minerals studies undertaken by the Government prior to arrival of the expert and (2) that all Government inputs, i.e. personnel, equipment, premises, fuel necessities, etc. are arranged for before the start of the project.

2. Assignment of national staff (in kind)

<u>Post</u>	<u>Date Required</u>	<u>Duration</u>
a. <u>National geologist</u>	1 Jan. 1974	18 months
[Insert here the name of the geologist who will serve full-time in the project, qualifications and experience.]		
The geologist will be a full-time working partner of the international expert and will assume similar responsibilities at the conclusion of the project.		
b. <u>Geologist's assistant/driver</u>	1 Jan. 1974	18 months
A young and able high school student graduate with driving license, will be employed for the period of the project as a field and office assistant to the two geologists. He will, learning on the job, undertake elementary topographic surveying, taking and bagging samples, take care of camp logistics and a host of tasks which may be assigned him by the team members as required, in addition to acting as driver.		

<u>Post</u>	<u>Date Required</u>	<u>Duration</u>
c. <u>Secretary</u>	1 Jan. 1974- 30 June 1975	
<p>The services of a secretary will at all times be available to the project staff and may involve full-time duties in the report writing stage. Estimated to require 6 man-months in all.</p>		
d. <u>Driller</u>	1 May 1974	14 months
<p>[Insert here name of driller, present employee of the DFM.]</p>		
<p>He will carry out auger and diamond drilling duties as requested by the international expert to whom he will report directly. He will be at the disposition of the project on a full-time basis or as required during his term of assignment in the project. He will be responsible for the field management and operation of the drill programmes planned for the equipment under his control and for its security and repair. He will be in charge of the drill jeep and one general duty truck. He will personally drive the jeep and operate the rig being assisted by laborers supplied by the counterpart agency.</p>		
e. <u>Truck driver</u>	1 May 1974	14 months
<p>A qualified, experienced truck driver will be employed by DFM on behalf of the project. His principal duty will be to drive the general duty truck to be used in the drilling operations. He will be responsible for its operation and care and shall carry out any instructions given by the driller, such as assisting in loading and unloading, etc.</p>		

f. Casual labour

1 Jan. 1974 100 man-months

An anticipated 100 man-months of casual labour is expected to be required in the project for a variety of duties, such as topographic survey work, pitting, trenching, cooking, drilling assistance and sampling work. They will be employed by the counterpart agency and will be under the direction of the international expert or his designate.

3. Government supplied equipment, supplies and premises (in kind)

Sub-contract Laboratory Services

The Instituto Nacional de Tecnología y Normalización has indicated its willingness to collaborate with the Dirección de Recursos Minerales for the analysis of samples taken during this project and for materials testing [insert here a description of the history, funding, laboratory facilities and staffing of the Instituto Nacional de Tecnología y Normalización - INTN.]

The counterpart agency has made the following arrangement with the INTN [insert here short description of the contract between the two entities for provision of the services].

Sub-contract

When required

Cost

Analyzes and materials testing

1 Jan. 1974

¢ 500,000

Description

When required

Value (in ¢)

Expendable:

Camp gear - The counterpart agency may be required to supply tents, cooking gear, sample bags, note-books, etc. where for any reason these items have not been supplied by the executing agency or are delayed in arrival, thereby affecting the progress of the project.

1 Jan. 1974

¢ 50,000

<u>Description (continued)</u>	<u>When required</u>	<u>Value (in \$)</u>
<u>Non-expendable:</u>		
One truck - adequate in size to meet the fuel, supplies and personnel transport requirements of the drilling phase of the project operations and for other duties as necessary. Provided on a full-time basis. Replacement will be arranged in the event of breakdown so that project operations are not impeded.	1 May 1974	\$ 300,000
Water-pump - the counterpart agency will make available the water-pump they own for use with the drill.	1 May 1974	85,000
TOTAL OF EXPENDABLE AND NON-EXPENDABLE EQUIPMENT		<u>\$ 435,000</u>

Premises

The counterpart agency will provide office space, office furniture and equipment such as draughting supplies, stationery, etc. The offices will be located [insert here the facilities to be provided in Asunción and a short description of the location and buildings in the field office].

garage and storage facilities will be provided as follows: [insert here in what manner and at what site project vehicles will be serviced].

Miscellaneous:

When required

Value (in £)

Operation of Vehicles and Drill

1 Jan. 1974

£ 300,000

The counterpart agency will assume the costs of fuel, lubricants, repairs and cost of replacement parts (where these are unavailable from the UNDP component) and any other costs, e.g. licensing, insurance, etc. related to the functioning of the vehicles and drill [insert here what arrangements have been made to carry out these obligations].

Sundry

1 Jan. 1974

£ 85,000

- Provision for Government costs of communications and contingency.

PROJECT BUDGET COVERING GOVERNMENT COUNTERPART

CONTRIBUTION IN KIND

(in local currency)

Country: Paraguay

Project No.:

Title: Industrial Mineral Investigation

	m/m	Total		1 9 7 4		1 9 7 5	
			g	m/m	g	m/m	g
10 <u>Project Personnel</u>							
Geologist	18		918,000	12	612,000	6	306,000
Geologist's assistant/ driver	18		540,000	12	360,000	6	180,000
Secretary	6		172,800	2	57,600	4	115,200
Driller	14		403,200	8	230,400	6	172,800
Driver	14		340,200	8	194,400	6	145,800
Casual labour	100		500,000	65	325,000	35	175,000
(Vinticos included where applicable)							
19 Component total	170		2,874,200	107	1,779,400	63	1,094,800
20 <u>Sub-contracts</u>			500,000		350,000		150,000
29 Component total			500,000		350,000		150,000
40 <u>Equipment</u>							
41 Expendable equipment			50,000		35,000		15,000
42 Non-expendable "			385,000		220,000		165,000
43 Premises			pour memoire				
49 Component total			435,000		255,000		180,000
50 <u>Miscellaneous</u>							
51 Operation and Maintenance of equipment and vehicles			300,000		200,000		100,000
52 Sundry			85,000		60,000		25,000
59 Component total			385,000		260,000		125,000
99 GRAND TOTAL			4,194,200		2,644,400		1,549,800

ORGANIZATION OF THE PROJECT

This page represents the standard text to be appended.

NACIONES UNIDAS

PROGRAMA PARA EL DESARROLLO



Edificio City, 3er. Piso
Calle Estrella 345
Teléfonos: 43025 - 43026 - 43027

ENCLOSURE ATTACHED

ASUNCION - PARAGUAY

Referencia:

2705
PRO 300 CP.4

RECEIVED IN RECORDS CONTROL	
4 - SEP 1975	
ACTION TO:	
1 Mr. Djermakoye	Casilla Correo 1107
2 Mr. G. G. G.	Cables: UNDEVPRO
3 Mr. Herman	Telex: 218 PY UNDEVPRO
<input checked="" type="checkbox"/> PUT AWAY	
INITIALS <i>JD</i>	
<input type="checkbox"/> BRING FORWARD	
ON DAY MONTH YR.	
TO:	

1 September 1975

TE 311/1 PARAG

Dear Mr. Djermakoye,

1977-1981 Country Programme

In continuation of my circular letter Nº 2252 of 28 July to you, I
..... enclose a copy of the new timetable for the preparation of the Country
Programme for Paraguay, now scheduled for consideration by the UNDP
Governing Council in January 1977.

You will note that the target date for the distribution of the final
version of the Document is, as stated in the circular letter under reference,
June 1976.

Yours sincerely,

J. Bustamante
José Luis Bustamante
Resident Representative

Mr. I. S. Djermakoye
Commissioner for Technical Cooperation
United Nations
866 UN Plaza
New York, N.Y. 10017

ELAIPB/OTC
RECEIVED
9 SEP 1975

CONTROL NO.	9/119
OFFICIAL CORRESPONDENCE	MUST BE RETURNED TO RECORDS CONTROL, ROOM 2014

PROGRAMA PARA EL DESARROLLO



ENCLOSURE ATTACHED

ASUNCION - PARAGUAY

Teléfonos: 43025 - 43026 - 43027

Referencia:

2705
PRO 300 CP.4

UNITED NATIONS

RECEIVED IN RECORDS CONTROL
DEVELOPMENT PROGRAMME

4 - SEP 1975

DRS. KORN
Mr. Herman

Telex: 218 PY UNDEVPRO

1 September 1975

ТЕЗИ/ПАРАБ

Dear Mrs. Korn,

1977-1981 Country Programme

In continuation of my circular letter N° 2252 of 28 July to you, I enclose a copy of the new timetable for the preparation of the Country Programme for Paraguay, now scheduled for consideration by the UNDP Governing Council in January 1977.

You will note that the target date for the distribution of the final version of the Document is, as stated in the circular letter under reference, June 1976.

Yours sincerely,

Jose Luis Bustamante
Resident Representative

Mrs. Carmen F. Korn
Acting Deputy Director
Europe, Latin America and Interregional
Projects Branch
Office of Technical Cooperation
United Nations
866 UN Plaza
New York, N.Y. 10017

ELAIPB/OTC

RECEIVED
4 SEP 1976
RECEIVED

UNDP
Asunción
Paraguay
28 August 1975

SCHEDULE FOR PREPARATION OF COUNTRY PROGRAMME FOR PARAGUAY,
1977-81, FOR PRESENTATION TO THE GOVERNING COUNCIL, JANUARY 1977

- May-July 75 Prepare Position Paper and Basic Data.
- July 1975 Distribute Position and Basic Data to UNDP, CEPAL, ILPES, the Specialized Agencies and the Government for comments.
- ✓ 1 Oct. 1975 Receipt of comments on Position Paper.
- Oct-Dec. 75 Plan specific activities; review paper, incorporate comments and begin to prepare the Country Programme Document, in close cooperation with the Government.
- 1 March 1976 Complete draft of the Country Programme Document.
- 31 March 76 Distribute copies to UNDP, CEPAL, ILPES, the Specialized Agencies and the Government for comments.
- 5 May 1976 Receipt of comments on the draft Country Programme.
- 30 May 1976 Prepare the final version of the Country Programme.
- 30 June 1976 Distribute copies of the final version of the Country Programme to UNDP, CEPAL, ILPES, the Specialized Agencies and the Government.

PAR/72/004
PAR/75/002

CHAS. CO. - BOL

4 AUG 1975

del 22/10/75 Parag (6)
75 311/1 Parag

PAR/72/004 - Groundwater Development
in the Chaco
PAR/75/002 - Integrated Regional Development, Chaco


Miss Anstee
Mr. van Heerden
Mr. Krauss
Mr. Gemmell
Mr. Roberts

1. In the course of my visit to the Chaco yesterday, 8 July, I had occasion to meet Mr. M. Haupt, who mentioned an "indigena", currently working in Filadelfia with the Mennonite, who is prepared to work as a driller in the project for \$50,000 per month (Government contribution).
2. I asked Dr. Sosa to come this morning and requested him to consider the idea, together with the overall situation of the counterpart contribution, which I am to discuss with the Minister of Defense and possibly with the Minister of Finance later this week or next week.
3. I went on to discuss the other project (pasture and cattle) and informed Dr. Sosa that I was going to request the Minister of Defense to convene a meeting on Friday, 11 July, it was later agreed with the Minister of Defense to hold it on Tuesday, 15 July at 8 a.m. with the following:

<u>Ministry of Defense:</u>	Dr. Sosa;
<u>Ministry of Finance:</u>	The Minister of Finance;
<u>Cattle Fund:</u>	The President and Dr. Cano;
<u>IBR:</u>	The President and Dr. Ramirez;
<u>STP/ONP:</u>	Dr. Ceferino Rodriguez;
<u>Min. of Agriculture:</u>	Ing. Samudio;
<u>UNDP:</u>	Mr. Roberts (or Mr. Haupt), Mr. Jadue, Miss Lim, and myself.

4. The object of this meeting is to discuss the preparations required for the arrival of Messrs. Blackmon and Johnson, short-term consultants recruited by UNDP to draw up the large-scale integrated regional development project.
5. Completely separate and independent of my visit to the Chaco, I am putting on record a new thought, which includes a future trip to the Estancia "La Patria" by Col. Gemmell (to prepare for plans for a landing strip).

6. Another possible future consideration is the inclusion of an ideal pump for the upcoming integrated development project, which I understand is a "bomba eléctrica sumergible", produced by Compafía Sudamericana de Bomba (CSB) in Argentina, under licence from KSB, Germany. Apparently, the pump at present had by the current groundwater project (PAR/72/004) purchased two years ago might have cost US\$5.000 and might now cost US\$8.000. Mr. Haupt undertook to obtain details for my information. I also requested similar information from Mr. Aliaga and EFB this morning.



JLB/VL/act
9/7/75

Mrs. Carmen F. Korn, Acting Deputy Director
Europe, Latin America, and Interregional Projects
Branch.

4 August 1975

TE 311/1 PARAGUAY

Karl-Erik Hansson, Officer-in-Charge
Centre for Natural Resources, Energy and Transport

Second Country Programme - Paraguay

With reference to your memorandum of 8 July 1975, the following are our comments on the above country programme:

1. There is some prospect that economically exploitable mineral deposits may exist in Paraguay. A visit by Mr. Donald Robertson, Interregional Adviser, is scheduled for September and we recommend that he hold discussions with the Government and if necessary, formulate detailed proposals.
2. The first country programme included a project -- Integral Transport Survey -- which is concerned with all modes of transport and the preparation of a national transport plan and the identification of investment projects as well as future national transport policy. The second country programme will have to take the recommendations of this project into account and we recommend that suitable provision be made from the IPF for this.
3. The project Study of the Navigability of the Paraguay River Phase II was included in the country programme for 1972-76 with the UNDP contribution being distributed to the IPFs of Argentina, Paraguay and 'Regional'. Since this project is no longer regional no funds will be available from that IPF and the Governments of Paraguay and Argentina may wish to include this project in their second country programmes. The project document has been revised and will be discussed with all concerned during the visit by our technical adviser, Mr. L. Sancha to South America.

In the consulting engineer's final report for Phase I it was recommended that the management of the A.N.N.P., the Paraguayan Ports and River Administration, be reorganized and that this reorganization be the subject of a special study. We feel that this study would be a suitable project for the second UNDP country programme.

The project Groundwater Development in the Chaco is likely to terminate in 1977. The results obtained so far are encouraging and indicate that enough quality groundwater is available in western Chaco to support cattle rearing and some cultivation. The Government has indicated great interest in extending this project beyond 1977 and discussions were held during the visit of our technical adviser, Mr. U. Golani. The costing of alternative extension for one year would be \$262,000, for two years \$687,000, and for two years with an additional drilling machine and other equipment the costing was estimated at \$1,128,000. This might be taken into consideration in the second country programme.

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34 VANNEEDEN YOUR 33 PAR/72/003 URBAN DEVELOPMENT, REVIEW
CONCERNING LOW PRIORITY THIS FIELD, PROPOSED VISIT EVER
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TE 311/1 PAR *AW*

15 July 1975

Dear José Luis,

We have noted that the Second Country Programme for Paraguay is due for submission to the UNDP Governing Council in June 1976. As in the past, we wish to offer the full co-operation of the United Nations in your efforts to assist the Government in preparing the most effective programme of UNDP assistance, consistent with national social and economic development priorities and objectives, and we feel that short-term missions by U.N. interregional advisers, technical advisers or other staff from the Headquarters will be our best means to assist.

If you and the Government so request, we are in a position to offer such services for assistance in the preparation of the over-all country programme, including adjustment of priorities among project proposals. As you know, development planning is one of the fields of competence of the United Nations, and we have provided advisory missions of this type to a number of countries to help in the preparation of their first country programmes.

Given the UNDP emphasis on in-depth sectoral studies and project proposals based upon them for the second programming cycle, the Government and your office may soon be giving attention to the selection of specific sectors requiring detailed analysis. Again, at your request, we can arrange short-term advisory missions to give sectoral advice and suggest project proposals within the U.N. fields of competence which are selected for special attention in the country which your office serves. In view of the wide range of substantive fields within our terms of reference, you may also determine that a multidisciplinary mission consisting of more than one adviser will be required.

Mr. José Luis Bustamante
Resident Representative of the
United Nations Development Programme
in Paraguay
Casilla de Correo 1107
Asunción, Paraguay

cc. Mr. Convers

Mr. van Heerden

Mr. Valdés

In some cases, there may be a U.N. expert assigned to a specific project in your country who, in your opinion and that of the Government, could carry out the necessary work on the sector for country programming purposes. In such an event, after discussion with the expert in question and your consultation with the Government, I would appreciate your informing us and requesting our concurrence for his utilization in this manner, since this may have implications for the Work Plan of his project.

It should also be recalled that regional advisers and other staff members of the U.N. Economic Commission for Latin America may have special knowledge of the country served by your office and the specific sectors of concern or may be appropriate for an over-all country programming mission. If you know of such personnel, it would be appropriate to make a direct request to the Economic Commission for Latin America for their services. We ourselves will be writing to the Commission to share information on programming activities.

Besides project proposals which result from U.N. short-term advisory missions, you may expect to receive from UN/OTC some project proposals in U.N. fields of activity which are not the subject of sectoral advisory missions but which our substantive offices consider to be important for inclusion in the Second Country Programme.

In general, we expect that U.N. advisory missions for country programming purposes will be financed from country IPFs.

We hope that the experience of the first programming cycle has brought you also to the view that the above propositions represent the most useful form of assistance which the United Nations can provide during the preparation of the Second Country Programme.

Yours sincerely,

Carmen F. Korn
Acting Deputy Director
Europe, Latin America and
Interregional Projects Branch
Office of Technical Co-operation

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30 BUSTAMANTE RE PROJECT PAR/72/003 URBAN DEVELOPMENT PLAN IN
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L.G.Kerenyi/FR

Miss Daysi Moncada,
Recruitment Officer, TARS

17 October 1974

TE 341/1 PARA⁵

Carmen F. Korn, Chief
Human Resources Projects Section, ELAIPB/OTC

PARAGUAY - Estudios de Población y Empleo.
(Project request: PAR/74/P01).

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1. The above-mentioned project request, which is still under revision by the offices concerned, includes a four man-month Demographer post.

2. Please find enclosed in that respect a P.13 form each for Mr. Adrián Cartín and Mr. Aquiles Arellano who have expressed interest in the post.

3. I should appreciate your having the two candidatures reviewed so that by the time approval of this request is obtained, and if they are found suitable for the post, their candidature may be processed without delay.

4. The review may also be utilized whether the candidates in question would not be suitable for other possible vacancies in the field of their competence.

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17 October 1974

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A E R O G R A M M E V I A P O U C H

ASUNCION (PARAGUAY)

_____ BUSTAMANTE. PLEASED INFORM SPECIAL TECHNICAL ADVISER IGNACIO PEREZ SALGADO SCHEDULED ARRIVE ASUNCION 13 NOVEMBER ASSIST GOVERNMENT DRAFT PROJECT DOCUMENT PROPOSED PUBLIC ADMINISTRATION PROJECT PAR/74/014. YOUR 138 OF 17 SEPTEMBER 1974 REFERS. GRATEFUL YOUR MAKING HOTEL RESERVATION UNTIL 13 NOVEMBER. PEREZ SALGADO WILL CABLE YOU FLIGHT ARRIVAL INFORMATION WHEN DETERMINED

CARMEN KORN

and cc. Mr. Perez Salgado

Ladislav Kerényi
for
Carmen F. Korn, Chief, HRPS/ELAIPB/OTC