FILE COPY TO BE RETURNED TO REPORTS DESK CIRCULATING COPY

DOCUMENT OF INTERNATIONAL DEVELOPMENT ASSOCIATION

Not For Public Use

Report No. P-1728-NEP

REPORT AND RECOMMENDATION

OF THE

PRESIDENT

TO THE

EXECUTIVE DIRECTORS

ON A

PROPOSED CREDIT

TO THE

KINGDOM OF NEPAL

FOR

KULEKHANI HYDROELECTRIC PROJECT

November 25, 1975

This report was prepared for official use only by the Bank Group. It may not be published, quoted or cited without Bank Group authorization. The Bank Group does not accept responsibility for the accuracy or completeness of the report responsibility for the accuracy or completeness of the report.

CURRENCY EQUIVALENTS

Before October 9, 1975

Currency Unit	=	Nepalese Rupee (NR)
US\$1	=	NRs 10.56
NR 1	=	US\$0.095
ND - 1 000	_	11CC04 70

NRs 1,000 = US\$94.70 NRs 1,000,000 = US\$94,697

After October 9, 1975

US\$1 = NRs 12.50 NR 1 = US\$0.0800 NRs 1,000 = US\$80.00 NRs 1,000,000 = US\$80,000

FISCAL YEAR

Nepal Fiscal Year - July 16 to July 15

INTERNATIONAL DEVELOPMENT ASSOCIATION

REPORT AND RECOMMENDATION OF THE PRESIDENT TO THE EXECUTIVE DIRECTORS ON A PROPOSED CREDIT TO THE KINGDOM OF NEPAL FOR KULEKHANI HYDROELECTRIC PROJECT

I submit the following report and recommendation on a proposed development credit to the Kingdom of Nepal for the equivalent of \$26 million on standard IDA terms to help finance a project to meet rapidly growing demand for power in Central Nepal, which is the center of economic activity. The Overseas Economic Cooperation Fund of Japan (OECF) has approved in principle a loan of approximately US\$10.0 million equivalent for a term of 30 years including ten years grace period with interest at 2.75% per annum towards the financing of the proposed project; the Kuwait Fund for Arab Economic Development (the Kuwait Fund) has approved in principle a loan of approximately US\$17.5 million equivalent for a term of 32 years including 7 years grace period with interest at 3% per annum; and UNDP has approved a grant of US\$3.0 million equivalent.

PART I - THE ECONOMY

- 2. The most recent economic report entitled "A Review of Major Issues Related to Nepal's Development Prospects" (Report No. 677a-NEP) was distributed to the Executive Directors on June 10, 1975. The principal findings and conclusions of that report are summarized below. Country data are shown in Annex I.
- 3. Nepal has been classified by the United Nations as one of the least-developed countries in the world. Its per capita income in 1974 was estimated at \$90-100 per year and the literacy rate at about 14%. Serious efforts toward development have been underway only since the 1960s. Development expenditures have increased rapidly from NRs 232 million in 1964/65 to NRs 930 million in 1974/75. About half of expenditures for development has been financed with external assistance, notably from India, the United States and the People's Republic of China. About 80% has been in the form of grants.
- Nepal's economic growth over the last nine years has been slow. From 1965-67 to 1972-74, the average annual rate of growth of GDP was only 2.2% in real terms. During the same period population increased at a rate of over 2%. There was, therefore, hardly any improvement in GDP per capita. Agriculture accounts for about two thirds of GDP and for 80% of export earnings and provides employment to 94% of the population. Foodgrain production has grown at less than 1% annually since the mid-1960's. If present trends in the growth of population and foodgrain production continue, Nepal may have a foodgrain deficit by the turn of the decade. Nepal is currently exporting over 200,000 tons of rice a year, accounting for about 60% of export earnings. Some progress was achieved in the manufacturing sector which, however, accounts for less than 3% of GDP.

- 5. This slow growth was largely due to the priority given to development of infrastructure over the directly producing sectors. This priority was probably an inescapable necessity. When the country began to come out of its isolation in 1951, it had no transportation facilities and hardly any trained people to man an administration oriented towards economic development. At least one generation was needed to build a minimal physical and administrative infrastructure without which a development policy is devoid of meaning. In that respect, substantial progress has been achieved.
- 6. In the past, only 20% of public sector investments was made in the directly producing sectors which largely benefited the Kathmandu Valley, and, to a lesser extent, the eastern Terai plains. The development of the Kathmandu Valley, where 4% of Nepal's population lives, has been a success story. New cultivation methods have been widely adopted and the farming community is enjoying an improved standard of living. With the Fifth Five-Year Plan (1975/76-1979/80), Nepal is now attempting to shift its order of priorities and to focus on the productive sectors and the development of its very substantial hydro-electric power potential. Half of planned development expenditures is tentatively allocated to these sectors. Largely because of absorptive capacity problems, the country may experience difficulties in redirecting its investments along this new and very pertinent course, especially in agriculture.
- Nepal's development is likely to be impaired by the recent changes in world economic conditions. The country has to import practically all capital and manufactured consumer goods. World price increases are, therefore, greatly affecting Nepal, at a time when export prospects are not too encouraging. As the country is landlocked, it depends on India for most of its imports, but India has developed shortages of its own. This has forced Nepal to import from distant places which involves very high freight. and transit costs through India, particularly for bulky commodities such as cement. So far, the trade deficit has been more than offset by invisible earnings such as tourism. For the last ten years, balance of payments surpluses amounted to about \$10 million a year, and foreign exchange reserves were at the very comfortable level of \$139 million in November 1974 (more than 12 months of imports). However, and largely because of changes in world prices in late 1974, Nepal's foreign exchange reserves declined to \$94 million by September 1975. This decline may continue at a rate of \$20-25 million a year, unless Nepal succeeds in obtaining increased foreign assistance (see paragraph 12).
- 8. If imports have to be curtailed, this would not only directly affect economic activity but also the potential for domestic resource mobilization, as nearly two-thirds of tax and non-tax revenue is collected on external transactions. Revenue potentials from other tax sources are limited, given the poverty of the country and the low degree of monetization of the economy. For years to come, dynamic export growth is likely to be one of the few potential avenues for increasing resource mobilization. Export potentials lie mostly in the development of agriculture, tourism and hydropower.

- 9. On October 9, 1975 the Nepalese Rupee was devalued against the U.S. dollar from NRs 10.56 to NRs 12.50 to the dollar. Rates for other foreign currencies will be established daily by the Nepal Rastra (Central) Bank on the basis of the parity rates between the U.S. dollar and such currencies. The parity rate with the Indian Rupee remains unchanged. This selective devaluation was addressed to the problems of increasing earnings of convertible foreign exchange and reducing the demand for such exchange, encouraging labor-intensive investments, reducing the diversion of trade through unofficial channels, restoring the profitability of jute exports and increasing revenues in Hill areas by enhancing the rupee value of pensions and remittances received mainly by retired Gurkhas who had served abroad. While it is difficult to fully assess the impact of the devaluation, there can be little doubt that it was a step in the right direction.
- 10. In April 1975, substantial changes were made in the pricing of resources to consumers and investors. Consumer subsidies on basic commodities, such as rice and sugar which in the recent past were growing rapidly, have been almost entirely rescinded. A major reform of the interest rate structure was introduced in April 1975 with a view to increasing mobilization of private savings and rationalizing resource allocation. This welcome and timely reform entails an increase of the two-year fixed savings deposit rate from 9-3/4 to 16% per annum. Lending rates of commercial banks have been raised to the level of 15-18% per annum and those of financial institutions to 10-16%. These rates may be compared roughly to the current rate of inflation in Kathmandu of about 20% a year.
- Development expenditures, including foreign assistance, for the 11. Fifth Plan (1975/76-1979/80) are estimated at about \$670 million, i.e. twice as much in real terms as during the previous plan (1970/71-1974/75). plan is ambitious compared to the likely availability of resources and to the country's implementation capacity. Substantial additional foreign assistance above the present level would be required. Current expenditures are likely to increase sharply on account of rapidly growing expenditures in social sectors, especially in education, increased maintenance and management cost of previous investments, and additional administrative costs required to decentralize Government (HMG) services. As in the past, increase of HMG's recurrent expenditures is likely to outstrip growth of revenue so that the budget surplus is likely to fall sharply, possibly to a third of its current level in real terms. In view of this, we have scheduled an economic mission to visit Nepal in January to review the public sector investment program and the related resource requirements.
- 12. In summary, on the one hand, the extreme poverty of the country points to its limited capacity to generate resources; on the other hand, urgent development needs and the expected gradual improvement in the country's absorptive capacity will lead to an increasing demand for foreign exchange. Consequently, Nepal's requirements for foreign assistance on soft terms will rise rapidly. There is also a clear need for some local cost financing, as most projects with high development priority have a larger domestic cost component than can be mobilized from internal sources.

13. So far, Nepal's external debt has been very low. As mentioned in paragraph 3, the bulk of foreign aid has been in the form of grants. As of December 1974 foreign debt, which was all contracted with countries other than India, amounted to only \$106.2 million of which \$71.0 million remained undisbursed. This low utilization is largely due to the fact that three quarters of foreign loans have been contracted after mid-1970. Consequently, debt service was about \$1.5 million in 1974 or equivalent to 4% of exports of goods and services to countries other than India. IDA's share in the debt service was negligible. However, future assistance may increasingly take the form of loans, albeit soft. In view of the accelerated development efforts, external public debt is expected to rise and, based on the trend in recent years, may well reach \$250 million by 1980, of which approximately two thirds could be in IDA credits. The debt service ratio by 1980 is, however forecast to remain below 10%, of which the Bank Group share would be less than 1%.

PART II - BANK GROUP OPERATIONS IN NEPAL

- The first IDA credit to Nepal in the amount of \$1.7 million equivalent was made in FY70 for a telecommunications project. This was followed by credits for a highways project (\$2.5 million), a tourism project (\$3.2 million), an irrigation project (\$6 million), a second telecommunications project (\$5.5 million), a water supply and sewerage project (\$7.8 million), and a settlement project (\$6.0 million). The proposed credit would bring the total amount of IDA assistance to Nepal to \$58.7 million equivalent net of cancellations. No Bank loan has been made to Nepal. IFC made its first investment in Nepal (\$3.2 million) in a hotel project in Kathmandu in FY75. Annex II contains a summary statement of Bank Group operations as of October 31, 1975 and notes on the execution of ongoing IDA projects. It shows certain delays in the implementation of these projects, particularly during the initial periods. These delays are largely due to Nepal's limited technical and managerial capabilities. In order to assist Nepal in coping with this constraint, considerable technical assistance is being given in the form of inputs of staff time in Washington, from our Resident Mission in Kathmandu, and during frequent missions to Nepal. As a result, tangible improvements in the rate of disbursements are being realized. During FY75 \$1.7 million were disbursed, compared to \$2.6 million disbursed during the previous five years. In the first four months of the current fiscal year \$1.1 million were disbursed.
- 15. Bank Group lending to Nepal has so far been at a modest level compared to the country's needs for, and total receipts of, external assistance. This is due to the country's limited absorptive capacity, affecting the rate of project preparation and implementation. The Bank has, therefore, agreed with HMG to assist it in project preparation, particularly by acting as Executing Agency for a number of technical assistance projects in the UNDP Five-Year Program, now under consideration.

- 16. Bank Group objectives in Nepal reflect the country's needs: (a) to place major emphasis upon directly productive sectors, particularly agriculture and increasing food production; and (b) to continue assistance for the development of complementary infrastructure including feeder roads to support other development expenditure, facilities to expedite communications (particularly between the Hills and the Terai), and additional hydroelectric capacity to meet the predicted increase in demand for energy for agricultural and industrial development.
- 17. Preparation work is being carried out for a number of projects, including a rural development project, a second irrigation project, a DFC project and a feeder roads project. In view of the institutional constraints and shortage of trained personnel in Nepal, technical assistance and training would be important elements in the proposed project as well as in most future projects.

PART III - POWER IN NEPAL

- 18. Nepal has a very large undeveloped hydro-electric power potential. Estimated potential sources exceed 80,000 MW. Total installed capacity is 54.2 MW, out of which only 33.4 MW is hydro-electric power, 17.0 MW diesel, and 3.8 MW steam. Publicly owned plant account for 46.0 MW, or about 85%; the remaining 8.2 MW are captive plants. Electricity reaches only about 3% of the population. Total electric power generation in 1973/74 was 120 GWh, or 10 kWh per capita, compared to 20 kWh in Bangladesh and 120 kWh in India. Actual per capita consumption was only 7 kWh. The sector has a labor force of about 2,370, representing about 0.05% of the country's total, and creates about 0.2% of GDP.
- 19. The Electricity Department of the Ministry of Water and Power (ED) is responsible for the planning and construction of new generation and transmission facilities as well as licensing, enforcing safety measures, and controlling privately owned utilities. ED provides power in the Pokhara area and in about fifteen cities along the southern border with India. Power generation and distribution, in the Central System (the Kathmandu Valley and the Narayani Zone), is the responsibility of the Nepal Electricity Corporation (NEC), established in 1962. In the Eastern Terai, power generation and transmission is entrusted to the Eastern Electricity Corporation (EEC), established in October 1974. The Butwal Power Company operates in the area of the city of Butwal.
- 20. The Central System operated by NEC is the largest and most developed electricity supply system in Nepal, accounting for 73% of Nepal's installed capacity. Power is supplied by five hydro and four diesel stations with a total capacity of 31.6 MW and 8.3 MW respectively. The second most important area is the Kosi Zone around the city of Biratnagar, with present total installed capacity of 6.1 MW. Power in this area is supplied mainly by diesel and thermal units supplemented by a micro hydro plant at Dhankuta $(2 \times 120 \text{ KW})$ operated by ED and supplemented by power exchange with India.

- 21. In the Fifth Five-Year Plan, the Government's basic strategy for development of the sector is to further utilize hydroelectric resources to meet the increasing power demand, to extend electric services gradually to new areas in the country, and to bring about regional balance in the production and distribution of electric power.
- 22. ED's future expansion program for the Central System includes completion in 1976/77 of the Gandak Hydro Project (15 MW) now being constructed by India, and construction of the Devighat Hydro Project (14 MW), with technical and financial assistance to be provided from India. The Kulekhani project (60 MW), for which a development credit is proposed, would be completed in 1981/82. The associated transmission lines and substations would be expanded. NEC is also negotiating with ADB for a loan to extend the proposed Gandak-Hetauda transmission line from Bharatpur to Pokhara. This would link Pokhara to the central system and result in a major market expansion for NEC. This expansion would result in a higher demand level for power than has been used in justifying the proposed project.

PART IV - THE PROJECT

23. The proposed project is based on a feasibility report prepared by Nippon Koei, HMG's Consultants, financed by the Japanese Government, and on the findings of an appraisal mission which visited Nepal in November/December 1974. Negotiations were held in Washington during October/November 1975. The Government of Nepal was represented by a delegation led by Mr. A.B. Rajbhandary, Secretary, Ministry of Water and Power. A credit and project summary is attached as Annex III.

Project Description

24. The Project, located about 30 km southwest of Kathmandu, would entail the construction of a 107 m high rock-fill dam. The powerhouse, would be located underground containing two 30 MW generating units. A 66 KV double circuit transmission line branch 200 m in length would be required to connect with the existing line between Kathmandu and Birganj. Two 35 MVA transformers would also be needed at the existing substation at Kathmandu. The Project would provide 60 MW of dependable peaking capacity and generate 165 GWh of primary energy and 46 GWh of secondary energy annually.

Organization and Implementation

25. Upon completion of construction and installation of the generating units, the Electricity Department would transfer the new plant to NEC for operation. NEC has an authorized capital of NRs 300 million in shares of NRs 100 each. NEC's Board of Directors includes an Executive Chairman (the General Manager) and five other members: the Chief Engineer of ED and

representatives of the Ministry of Water and Power, the Ministry of Industry and Commerce, the Ministry of Finance, and the Kathmandu Town Council. Under the General Manager, there are four executive positions for Planning and Generation, Transmission and Distribution, Administration and Commercial, and Finance and Economic Analysis. NEC also has a branch office at Hetauda which is responsible for the operations in the Narayani Zone.

The existing management of four managers and twenty-seven engineers, most of whom are graduates of Indian Universities, is competent. Together with an additional 268 technical staff and 963 others, the total of 1,262 employees is excessive for a utility which has a present capacity of only 30 MW and about 56,000 consumers. HMG and NEC recognize that the number of staff is excessive and will endeavor to make use of redundant staff in operating the expanding facilities.

Cost and Financing Plan

- 27. The total construction cost is estimated at US\$68.0 million equivalent of which US\$56.5 million equivalent would be in foreign exchange and US\$11.5 million equivalent in local cost. UNDP has approved a grant of US\$3.0 million to finance technical assistance to ED in engineering, detailed design, procurement, and supervision of construction. OECF has approved in principle a loan of 3 billion Yen (approximately US\$10.0 million equivalent) to finance the foreign exchange cost of electro-mechanical equipment, associated transmission line and switchyard facilities. The Kuwait Fund has approved in principle a loan of KD 5 million (approximately US\$17.5 million equivalent) 1/ towards the foreign exchange cost of preliminary works, hydro-mechanical equipment and civil works. The draft loan agreement was negotiated between HMG and Kuwait Fund in October 1975. The proposed credit of US\$26.0 million would finance the bulk of the remaining foreign exchange costs of civil works. Civil works financing would be on parallel basis, with IDA financing the foreign exchange costs of the main dam and spillway (estimated at US\$27.9 million, including contingencies) and the Kuwait Fund financing the foreign exchange cost of civil works other than the main dam and spillway. balance of foreign exchange cost and local cost would be covered by HMG out of its own resources. Effectiveness of the loan agreement between HMG and OECF and the loan agreement between HMG and the Kuwait Fund would be a condition of effectiveness of the proposed credit agreement.
- 28. The Electricity Department would transfer the plant to NEC at cost less the amounts that NEC contributed during construction, and NEC would assume a corresponding rupee debt to the Government, in an amount estimated to be equivalent to US\$59.4 million. The rupee equivalent of the proposed credit would be repayable by NEC over 25 years with interest at 8-1/2% per annum, and the balance of the debt over 25 years at 6% interest per annum.

^{1/} US\$15.9 million equivalent is included in the financing plan and the remaining US\$1.6 million equivalent would be available as additional contingencies.

Procurement and Disbursement

29. Procurement under the proposed credit would be on the basis of international competitive bidding following IDA guidelines, while procurement under the Kuwait Fund loan would follow Kuwait Fund procedures. In the event that all bidders prequalified under IDA procedures are also prequalified under Kuwait Fund procedures, bids would be invited for the two packages together. Procurement guidelines established by OECF will be utilized for items financed by the OECF on the basis of LDC untied procurement (procurement from Japan and less developed countries). Disbursements from the proposed credit would be made against the foreign exchange cost of the main dam and spillway. Preliminary and resettlement works will be carried out by HMG's own task force, supplemented by local contractors.

Tariffs and Finances

30. One of the objectives of the proposed credit is to improve NEC's financial performance. Current tariffs, set by HMG at an average of NRs 0.239 (US¢1.9) per kWh are low 1/ and are inadequate for producing an acceptable rate of return on NEC's assets. For example, in 1974/75 the rate of return was a negative 1.4%. The inadequate return has been due mainly to the low tariff, high system losses (approximately 33%), levy of a royalty of US\$\,\text{US}\$0.6 per kWh sold, and a high tax rate of 55% (now 60%) on the net income of NEC. During negotiations HMG indicated that, as a part of the Second Power Loan from ADB, HMG would employ a consultant for assistance in the reduction of system losses. They also indicated that the Government would waive the royalty. The Government plans steps to reduce its system losses to about 20% by 1980/81, obviating need for larger tariff increases. During negotiations it was agreed that tariffs would be increased to produce a rate of return of 2.5% in 1975/76 (calculated as if the increase were in effect since the beginning of the fiscal year), rising to 4% in 1977/78 and to 6% by 1980/81 and subject to further review, with a view to reaching 8% as early as possible thereafter. This would require an average tariff of approximately US\$\&2.3 per kWh in 1975/76 (compared to the current US £1.9) rising to US £5.9 per kWh in 1980/81, which is comparable to tariffs in neighboring countries. The increase required to meet the 1975/76 rate of return target would be a condition of effectiveness of the credit agreement. No dividends would be declared until the plant has been commissioned, by which time cash generation should have increased sufficiently to permit payment of dividends.

Benefits and Justification

31. Electrical energy now reaches only about 3% of the population in Nepal. Demand for electrical energy has been growing and in the Central

^{1/} The tariff for domestic users in Nepal is also about US¢1.9 per kWH. This compares with US¢8.3 per kWH in Burma, US¢4 in Bangladesh and US¢6.25 in the neighboring State of Uttar Pradesh in India.

System the average annual rate of growth has been about 22% over the past 10 years, but the average per capita consumption is still extremely low (paragraph 18). Existing generating capacity even with considerable high cost diesel generation is insufficient to meet demand. Shortages are anticipated and load curtailment will be necessary during the next few years. Such shortages could have serious detrimental impact on industry, tourism and agricultural development. Though the present consumption is mainly in the domestic sector, the major component of the future growth in demand is expected to be in the agricultural, industrial and commercial sectors. About 12% of the project's total generating capacity would be required for the Chitwan Valley Irrigation Project 1/ alone. In addition, by 1983/84 energy consumption by industrial and commercial users is expected to increase significantly accounting for almost half the total sales. The proposed project is a crucial element in NEC's system expansion program to meet the forecast load requirements.

- 32. The project would contribute 60 MW in dependable peaking power, 165 Gwh in primary energy and 45 Gwh in secondary energy annually. When fully utilized it would replace use of energy in one form or another equivalent to about 65,000 tons of oil per annum saving approximately US\$8.0 million in scarce foreign exchange.
- 33. Hydropower is Nepal's only known conventional energy source of major economic significance. The proposed project is a major step in exploiting this resource. The project would help to train Nepalese engineers and technicians in handling of a modern hydroelectric plant and facilities and build up staff for undertaking future projects.
- 34. The project is the least cost solution for discount rates up to 13% when compared with other realistic alternatives which are thermal. No other alternative hydro schemes have been sufficiently investigated for completion to meet growing demand in the next few years. The rate of return on project investments would be 10.7% based on projected tariff increases. This return does not take into consideration the benefits that could accrue from the potential created for two additional power stations which could be built downstream of the Rapti River, utilizing the regulated flow from the Kulekhani reservoir. Other additional benefits would be the possibility of irrigating about 10,000 hectares, fish production from the reservoir and recreation benefits.

An important irrigation scheme to provide perennial water to increase production of paddy, corn, mustard, and wheat over an area of 11,100 ha in the Terai, presently under construction with financial support of ADB through its loan of \$8.0 million equivalent.

35. About 235 houses in the reservoir area will be inundated. It was agreed during negotiations that HMG would submit to the Association, no later than March 31, 1977, a detailed plan for the resettlement of their 1,200 inhabitants. No adverse ecological effects are anticipated. However, the Consultants would examine the environmental, health and ecological consequences of the project during field investigations, which must be completed prior to final design.

PART V - LEGAL INSTRUMENTS AND AUTHORITY

- 36. The draft Development Credit Agreement between the Kingdom of Nepal and the Association, the Recommendation of the Committee provided for in Article V, Section 1 (d) of the Articles of Agreement and the text of a resolution approving the proposed credit are being distributed to the Executive Directors separately.
- 37. The special features described in paragraphs 28, 30 and 35 of this report are reflected in Sections 5.04, 5.02 and 3.03 of the draft credit agreement, respectively.
- 38. Additional conditions of effectiveness are as follows:
 - (i) Effectiveness of the loan agreements between HMG and Kuwait Fund, and between HMG and OECF of Japan;
 - (ii) Appropriate revision to tariffs to produce a rate of return on net fixed assets in operation of 2.5% in 1975/76 (calculated as if the revisions were in effect for the whole fiscal year).
- 39. I am satisfied that the proposed credit would comply with the Articles of Agreement of the Association.

PART VI - RECOMMENDATION

40. I recommend that the Executive Directors approve the proposed credit.

Robert S. McNamara President

Attachments November 25, 1975

Column C		CTHOUSAND SQUARE KM.)	.00	:	140.4	190 4.3	3780.5	180.4
1.00 1.00	1.00 1.00	NA (MID-VR, MILLIDA)	~;		12.0	115.6	534.1	35.2
10.00 In All the state of the s	1916	1 316,	6.5	615.0	65.0	61.6	45.0 45.0	2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
110	110	PITA (1/38)	6.09	80 ° u	0.04	100.0	0.011	1,50. n
1.0 1.0	10 10 10 10 10 10 10 10	HY THE RATE PER THOUSAND BITH RATE PER THOUSAND SMEALLIY RATE (THOU) CCTANCY AT BITH (YRS) CCTANCY AT BITH (YRS)	50.0 (8 57.0 (8 57.0 (8 57.0 (8	25.0 /a 23.0 /a 41.0 /a	14.0 2.9	92.0 (a 21.0 (a 97.0 (a	34.0/a 15.0/a 130.0/a 50.0/a b	34.0 (4.5 13.0 (4.5 14.5.0 (6.5 55.0 (6.5 55.0 (6.5 55.0 (6.5)
10.0 1.0	10.0 1.0	N GROWIH MATE (%) (4) PULATION (% OF TOTAL)		5::	3.0 *	5.0	20.02	85 PC C
10 10 10 10 10 10 10 10	10	TEGRE (PERCENT) A VEARS A VEARS SAND OVER AND OVER AND OVER AND OVER AND OVER	4.6	5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5. 5.5	56.0* 3.0*	53.0 33.0 8 8.0 8 8.0	4 N. C.	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00
100.00 1	130.0.4 (190.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	DEPENDENCY RATIO (S) ANYING* TAS (CUMULATIVE, THOU) (X OF MARRIED ADMEN)		el - કુ:	1.2*	五 5.1 175.0 .:-	গ ::	2) (
150.00 1	10.00 10.0	NI BOR FORCE (THOUSAND) TOE IN AGRICULTURE (\$)		900.0 Cc	1,500.0* %1.0*	થ	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	37 0 * (05n) 0 * 19
10.00 0.170 0.00	10.0 10.0	14 STRINGS RECED AND TO SEE THEORE RECED AND TO SEE OF POPULATION 20X OF POPULATION AND TO SEE OF POPULATION AND OF POPU	1::::	::::	::::	fff:	55.0 53.0 53.0 75.0 75.0 75.0	3.5 ° ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5 ° 5
10.00 20.0	10.0 0.00	TOW OF LAND DAWERSHIP TOP TOE OF DAWERS BY SMALLEST TOK DAWERS		·::	::	111	::	6.18 6.4
10.0	10.0	40 VUTGITION TO PER VUTGITION (GAMA) PER DAY (T) TO PER DAY (T)	72000.0 7000.70 51.0 51.0	99777.0 (d 6750.0 (d 93.0 93.0 11.0	111111111	0.000 0.000 0.0051 0.0571 0.00 0.00 0.01	6110.0 5110.0 1620.0 51.0 51.0	0.0555 0.001 0.001 0.111 0.111 0.111 0.111 0.111 0.111
1.0 2.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 39.0 39	1.0 2.0 2.0 1.0 1.0 2.0 1.0	E WOLLHEWT RATIO (6) * SCHOLL EWE DAY DED * ACHOLL SAY SCHOLL * ACHOLL *		31.0 7.0 10.0 11.0	34.0 10.0	71.0 12.0 12.0 13.0	79.0 28.0 12.0 36.0 (8	다. 6.15 6.17 6.17 6.18
1.0	119.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	PER RODM (AVERAGE) MARIELINGS WITHOUT MARIE CETTINGS MIL DAELLINGS MIL DAELLINGS MIL DAELLINGS	20.0 52.0 50.08	1: 1: 1: 1:	1: :::	1.6 2) 0.44 0.46 90 0.40	* : : :	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
THE ALL TO ATTURE TO ATTURE THE ATTORNEY OF ENVIRONMENTALL TREPEARIDER, AND ATTURE ATTORNEY OF WAITONEY ATTORNEY OF WAITONEY ATTORNEY OF WAITONEY ATTORNEY OF WAITONEY OF WAIT	THE THE FORTURE OF THE	EIVERS (PER THOU BOD) CLOSS (PER THOU BOD) CLOSS (PER THOU BOD) (GEVER PER CAP)			.0.6		5 0 0 6 0	0° 0 0° 10 0° 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(r) paperten yanness (augustern) for all control ergence er ergence er ergence ergence ergence er ergence er ergence ergence er ergence er ergence ergence ergence er ergence er ergence er ergence ergence ergence er ergence ergence ergence ergence	(*) PROTECT STATES AT SETTING TO NOTE TO SETTING SETTI	+ TABLCATES 1972 OF 19	1 Hitt 0 110	. 0476#	100	KING ACCOUNT OF IDY WEIGHTS, AND NATIONAL POPUL	ENVIRONMENTS DISTRIBUTION	IL TEMPERATURE,
GRAYS OF COURT PROFICE AND STARRY OF ANITHING SHORT AND STARRY OF STAR	GRAYS OF COURT PROFICE AND STARLS OF AND AND STARLS OF ANTIAL SECRET AND AND STARLS OF ANTIAL SECRET AND	PER CONTIA ESSINATES AND SANK ATLAS. GE NUMBER OF LIVE DAUGN IN MER NORMAL! REPODUC!	EASTON ACTH	NA TICE OF THE TARKET THE CHARLES	FOR A NOTE OF A	OTELY STANDARDS INTELS AS ESTA SERCH SERVICE CR OF 60 GRANS CR OF 80 GRANS CRANS OF ALINA ANDAROS ARF SOM	CREDUISEMENT SLISHED BY US PROVIDE FOR A OF TOTAL PROT I AND PULSE F E ANIMAL PROT EWHAT LOWER I	S) FOR ALL COMPACT OF THIS OF THE STATE FIN FER DAY, AND RADIEN, OF WHICH FIN, THESE FIN, THESE HAN INGSE OF 75
41,441701104. GH (c) PERCENTICE PARTILED OF CORRESPONDING PROPRIET TO PERCENTICE TO P	**ALLANITORIANA AND THE PROPERTY OF SCHOOL AGE AND RETAILE TO BE EACH COUNTRY. **ALLANITORIANA MADDOM: ALLANITOR AGE AND RETAILE TO BE A DETAILED WAS SCHOOL AGE AND RETAILED TO THE STATEMENT. **ALLANITORIANA MADDOM: ALLANITORIANA AND AGE AND AG	ATION GROWTH RATES ARE IS IN 1960 AND 1970, AND TY ESTIMATE - FOR THE PE TY YEAR.	FD4 THE DE D + FD8 THE ERIOD 1960	CADES HOST TO THE HOST	3	1849 OF TOTAL PR 1978IN AS AN AVE 1840 IN THE THI 1887ED AS AN A	PAGE FOR THE RD WORLD FOOL	GRAME OF ANIMAL MORIC, FROPOSED SURVEY, DEX OF
ERCH COUNTY. BESS FOURDED THUND DIABLION under 15 and 65 and over to total labor forces; (2 Estimates) 1y; (2 Definition under 15 and 65 and over to total labor forces; (2 Estimates) 1y; (2 Definition not available); (2 1966) BESS FOURDED ADVANCED	EECH COUNTY. BEST FOURDED THUND DIABLION under 15 and 65 and over to total labor force; (2 Estimate; 1y); (4 Definition under 15 and 65 and over to total labor force; (2 Estimate; 1y); (4 Department of the control	O OF POPULATION UNDER 11 LATION OF ACES 15 THROUG RATIO, AND 10 LABON FOR OR FCONDMIC DEPENDENCY 5	5 AND 65 AN GH 69 POP A RCE OF AGES RATTO.	D OVER TO SE DEPEND- 15 THROUGH	: :	LINHTRITION. PERNTAGE EMPOLL POLLATION OF 9CH	ED DF CORREST	DNDING FFNET FOR
1950; Intracezzaniu to 1955 (g. 1954–56); (d. Pofinition unknown; (g. Data for capital and main cities); 1270; Intracezzaniu to 1955; (d. 1954–56); (d. Pofinition unknown; (g. Data for capital and main cities); 1270; Intracezzaniu to 1955 (m. 1957); (d. 1954–56); (d. 1954–195); (d. 1955–195); (d. 1955–1	1950; MAT METERRING TO 1969 OR 1951 NOT	REFERENCE STANDARDS REPR TREMENTS FOR NORMAL ACTI	RESENT PHYS	TOLOGICAL EALTH,		CH COUNTRY.		
1279 DIT SETTEMBRICH ON 150 BATE WOTHER POLICIAIN UNDER 15 and 65 and over to total labor force; (2 Estimate) (4 1965-70 satismate) (5 Personnal in government services only; (2 Definition not swallable) (2 1966) (5 1970-70 Satismate) (6 1970-70 Satismate) (7 1970-70 Satismate) (8 Estimates) (9 Esti	1270: DATA METERIALION 1969 MAY BAY BERN POTRIVION MENT PROFIT DATA STATEMENT OF DATA STATEMENT OF PARTICION MADE IS NOT GOVERN TO ANALYSE. TO ANALYSE STATEMENT OF PARTICION MADE IN THE PARTICION ANALYSE STATEMENT. MENT PROFIT STATEMENT OF 1860 MAY 171 MAY BAY BOTHOUTH TO ANALYSE STATEMENT. MATERIALINO TO 1860 MAY 171 MAY BAY BOTHOUTH TO ANALYSE STATEMENT. MATERIALINO TO 1860 MAY 171 MAY BEAN POTRIVINE TO ANALYSE STATEMENT. MATERIALINO TO 1860 MAY 171 MAY BEAN POTRIVINE TO ANALYSE AT ANALYSE AT 181 MAY 171 CONTAIN ANALYSE AT 171 MAY 171		70 1969 대 19 스 1965,	2 1964-66;	EEN FOOTMOTED /d Definition	umbones; 🛵 De	3	and main cittes;
MAST RECORD TO 1860 OR 1971 MAY NOT REEM POOTFOURD (A Estimate, D. 1966-70; L. Registered registered for work; (2 10 years and over, akilly to read and write in either takin or nonclatin characters; (2 ppged water inside. 1970; DATA REFERENCY OF 1866-70; (2 Registered regi	MENT RECEIVE STATES. MAY REPRESENT TO 1860 OR 1971 BATE NOT RECEIVED FOOTHORDS. A RELIABLE AND TO 1860 OR 1971 BATE NOT RECEIVED FOOTHORDS. A RELIABLE AND TO 1860 OR 1971 BATE NOT RECEIVED FOOTHORDS. MAY RELIABLE AND TO 1860 OR 1971 BATE NOT RECEIVED FOOTHORDS. MAY RELIABLE AND TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A RELIABLE AND TO FORE A BATE RECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY RESERVE TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY REPRESENTED TO 1860 OR 1971 BATE DECEIVED FOOTHORDS. A MAY REPRESENTED FOOTHORD FOOTHORDS. A MAY REPRESENTED FOOT		TO 1969 HAVE ! imete; _b l n government !	Of HEEN FOOT Matho of popu	NOTED lation under 15 ; E Definiti	and 65 and over to on not available;		9
Little in this property is an analysis of the property of the	### Annual of the first and th		inate. Management	e e e e e e e e e e e e e e e e e e e				
1970; DATE RETEXERING TO 195 ON 1971 WARK NOT NEED PROTECTION. A Bellander, D. 1956-70; C. Rainto of population under 15 and 60 and over to labor force it age group 15-59; D.	MAINTENANTIAL OF LANGE AND TOTAL MAINTENANT DECORATION OF A CONTRACT OF	4	(b) 1965-70; ther Latin or	L Mays Mor B 2. Regist non-Latin ch	ern roundren ered applicants aracters; 2	for work; /d 10 Piped water inside	years and over	, ability to read and
1970; DATH REPERING TO 1969 OR 1971 MAY NOT REDE FOOTHORD. (2) 1965-671; (2) Excited 17 seasons provided as a seasons of the sea	1970: INTO REPRESENTING TO 1969 OR 1971 MAY NOT RESP POUTNOTED (2. 1967-7): (2. Excellent) Contracts are provinces; (2. 1963); (3. 1965-67); (3. Ratio of population under 15. 1966-67); (3. Ratio of population under 15. 1966-67); (3. Ratio of population under 15. 1966-67); (4. Ratio of population under 15. 1966-67); (5. Ratio of population under 15. 1966-67); (5. Ratio of population under 1966-67); (5. Ratio of populatio of population under 1966-67); (5. Ratio of population under 1	মুবার বা	TO 1969 OR 197 (2) 1965-70; a of labor for consus. The consus. The consus cut assifted only even as houses if over based c	1 HAVE NOT B 2 Ratio ve in age gr difference is on the basi twes; 2 n one percen	pEN POOTNOTED of population un oup 15-59, IEED due to changes of their main the galactered applit the sample date of	ider 15 and 60 and 1 report gives a fi in the definition activities. This cause for work; 1971, definition	over to labor f. gure of 180.4 m of a worker. Il led to the excli- Z 1967-68, ho unknown.	1010n hase group 15-59; 1011on hased on 1971 n the 1971 census, per- maton of several useholds;
he part forty years, Turkey's econocy has grown at a respectable gate, starting from a very mail beas. In so doing the base has been a set of some control of the stallar to these which is now founding. As now found to the stallar to these which is now facility. Assng others, these findland increasing output from the productive sectors, spring the stallar to these which per teachers are setting to the stallar to the stallar to the setting and sent to pportunitives it we reform and importing those distributions are distributed through property from the stallar production and importing through distribution.	he past forty years, turkey's ecocoay has grown at a respectable pace, starting from a very mail base. In an duting the years, foundated objectives and faced problems and constraints which, to a considerable degree, are quite stallar to those thich as now facility. Anny others, these findland increasing output from the productive sectors, agriculture and influency; secel. If Aport substitutions diversifying and increasing output from the productive sectors, agriculture and influency; secel. By Aport substitutions, day for any face of an appropriate face of an appropriate faces and increasing output from the productive sectors is approxing enough the face of a face of	1970: DATA REFERRING 7 28 1965-70; 6 and 65 and 65 years and or 21 Including as census taken	TO 1969 OR 197 The Excludes 1 aver to labor ver, excludes seint nurse statut they or that they or that they or	1 HAVE NOT B 7 seastern pr force 15 year unemployed; s and michity	SEN FOOTNOTED owtness; Cc 1: A selfstered in Registered es; K 1964-6	963; <u>(d. 1965-67</u> <u>(f. 1964-June 1</u> only; <u>(f. Dispo</u> 6; <u>(l. Persons</u> s	, Ze Ratio o; 97h, 86 percent sable income of ix years old and	F population under 15 being IUDs; <u>(R</u> 15 households; i over sho tell the
	RG Movember 24, 1975	he past forty years, turkey's has formulated objectives is now facing. Among others & Import substitutions; diversent topportunities; land and and	a economy has and faced pro s, these inclu breifying and form; and impr	grown at a blems and co de increasing increasing e owing income	respectable pace nstraints which, g output from the xports; mobilizis distribution.	, starting from a to a considerable productive sectong resources; impr	very small base, degree, are qui	. In so doing the lee shallar to those which and industry; accel- , health, training and

NEPAL

ECONOMIC INDICATORS

GNP PER CAPITA in 1974: US \$90-100

GROSS NATIONAL PRODUCT	IN 1972/73	3	ANNUAL RATE OF GROWTH (% constant
	US \$ Mln.	<u></u> \$	<pre>prices) Approximately 2.2 (1965-67 to</pre>
GNP at Market Prices Gross Domestic Investme	1,070	100.0	1972-74)
Gross National Saving	• •	• •	
Current Account Balance Exports of Goods, NFS	• •	• •	
Imports of Goods, NFS	• •	••	
OUTPUT, LABOR FORCE AND PRODUCTIVITY IN 1972/73			
	Value US \$ Mln.		
Agriculture	730	68.0	
Industry Services	95 245	9.0 23.0	
Total/Average	1,070	100.0	
GOVERNMENT FINANCE			
		-	tral Government

	Central Government		
	(Rs Mln.)	% of GDP	
	1973/74	1972/73	
Current Receipts	730	4.6	
Current Expenditure	<u>498</u>	<u>3.3</u>	
Current Surplus	232	1.3	
Capital Expenditures	811	5.4	
External Assistance (net)	320	1.8	

Calculated by the same conversion technique as used in the 1974 World Atlas. All other conversions to dollars in this table are at the average exchange rate prevailing during the period covered.

COUNTRY DATA - NEPAL

MONEY, CREDIT and	PRI CES		<u>1965</u> (Mi	<u>1971</u> llion Rs o	1972 outstanding r	<u>1973</u> nid-July)	1974
Money and Quasi Bank Credit to I Bank Credit to I	Aublic Sect		554 -149 136	1,055 - 103 320	1,240 - 39 400	1,493 117 459	1,850 251 652
Money and Quasi	Money as %	of GDP	8.0	11.1	11.9	13.2	13.7
TRANSACTIONS IN CO	NVERTIBLE (CURRENCIES	<u>.</u> 1/				
	(US	\$ Millions	5)				
Receipts	1972 29.9	1973 37. 8	1974 40.3				
Exports Invisibles	8.8 21.1	14.8 23.4	12.3 28.0				
Payments	25.1	28.3	25.9				
Imports Invisibles	12.2 13.9	18.7 9.6	16.1 9.8	EXTERNAL	DEBT, DECEM	BER 31, 19	, market
Surplus	4.8	9.5	14.4	Non-Gu	Debt, incl. aranteed Pri	vate Debt	• •
Gross Official R	eserves				Outstanding	- •	d 35.2
July 1973 Jul	<u>y 1974</u> ions US \$)	Sept. 1975	<u>.</u>	DEBT SER	VICE RATIO f	or 1974 2/	
	135.7	94.0		About	1.5%		
RATE OF EXCHANGE			IBRD/I	DA LENDIN	G, OCTOBER 9	1975	
Up to February 20, US \$ 1.00 = NR				• •	- ••	IBRD	IDA
NR 1.00 = US \$				ding and	Disbursed	-	5.1
Since February 20, US \$ 1.00 = NR NR 1.00 = US \$	10.56		Undist Outste		l. Undisburs	ed -	27.6 3/ 32.7
Since October 9, 1 US \$ 1.00 = NR NR 1.00 = US \$	12.50						

^{1/} Since substantial parts of Nepal's foreign trade are unrecorded, there is no overall balance of payments available. This table is a balance of payments with countries other than India and represents about 10% of Nepal's foreign trade.

^{2/} Ratio of Debt Service to Exports of Goods and Services.
3/ Net of cancellations.

STATUS OF BANK GROUP OPERATIONS IN NEPAL

A. STATEMENT OF IDA CREDITS (as at October 31, 1975) $\frac{a}{a}$

Credit			Amo		Million cancellation)
No.	Year	Borrower	Purpose 1	<u>IDA</u>	Undisbursed
166-NEP	1969	Kingdom of Nepal	Telecommu- nications	1.7	0.3
223-NEP	1970	Kingdom of Nepal	Highways	2.5	1.0
291-NEP	1972	Kingdom of Nepal	Tourism	3.2	2.8
373-NEP	1973	Kingdom of Nepal	Irrigation	6.0	4.9
397-NEP	1973	Kingdom of Nepal	Telecommu- nications	5.5	5.5
470-NEP	1974	Kingdom of Nepal	Water Supply and Sewerag	7.8 e	6.8
505-NEP	1975	Kingdom of Nepal	Settlement	<u>6.0</u>	6.0
		Total Outstanding		32.7 /b	
		Total Undisbursed			27.3

B. STATEMENT OF IFC INVESTMENT (as at October 31, 1975)

Year	Obligor	Type of Business		-	Million Total
1975	Soaltee Hotel (Pvt) Ltd.	Hotel	2.70	0.48	3.18
	Total commitments now h	neld by IFC	2.70	0.48	3.18
	Total Undisbursed		2.70	0.48	3.18

[/]a No Bank loans have been made to Nepal.

 $[\]underline{/b}$ Prior to exchange adjustments.

c. PROJECTS IN EXECUTION $\frac{1}{}$

Credit No. 166

Telecommunications Project US\$1.7 million Credit of
November 10, 1969; Effective Date: February 26, 1970;
Closing Date: July 31, 1974 - Revised Closing Date:
September 30, 1976

After initial delays in making the credit effective, delays in signing an agreement with India for some of the complementary aid provisions and delays in taking procurement action, this project is now proceeding satisfactorily. All contracts have been placed and completion is expected by mid-1976.

Credit No. 223

Highway Project US\$2.5 million Credit of December 21,

1970; Effective Date: February 3, 1971; Closing Date:

June 30, 1975 - Revised Closing Date: December 31, 1976

With a delay of about eighteen months, the last of the five project road bridges is nearing completion and all are expected to be open early 1976. The delay was principally due to land acquisition difficulties and a national shortage of cement and fuel. Three of the five porter suspension bridges are open, with the remaining two to be opened in 1976. All project road maintenance equipment has been received and is now part of the Road Department fleet. Equipment workshop construction has been slow due to contractual difficulties stemming from price escalation; however, workshop construction should be completed first half 1976. Bid prices, although above appraisal estimates, are within contingencies. Total project cost is approximately 11% above appraisal estimate. In view of the effect of general inflation on the benefits, this is not likely to affect the rate of return. The project is expected to be completed by mid-1976.

Credit No. 291

Tourism Project US\$3.2 million (net of cancellation)

Credit of March 22, 1972; Effective Date: November 9,

1972; Closing Date: September 30, 1975 - Revised Closing Date: December 31, 1977

Due to delays in appointing qualified architectural, engineering and project management consultants, and repeated changes in scope proposed by the sponsors of the subprojects, the project is two years behind schedule. Construction of the Yak and Yeti subproject is underway and is expected to be completed by the end of 1976. On the other hand, it was not possible to reach a firm agreement with the sponsors on an appropriate revision of the Annapurna subproject, and \$1.0 million of the Credit was cancelled from the original

These notes are designed to inform the Executive Directors regarding the projects, in execution and in particular to report any problems which are being encountered, and the action being taken. They should be read in this sense and with the understanding that they do not purport to present a balanced evaluation of strengths and weaknesses in project execution.

allocation (\$2.88 million) for that subproject. Agreement with the Government is being finalized for the reallocation of the remaining \$1.88 million to meet increased costs of the Yak and Yeti subproject and to finance a feasibility study for a major hotel in Kathmandu.

Credit No. 373

Birganj Irrigation Project US\$6.0 million Credit of
April 18, 1973; Effective Date: July 9, 1973;
Closing Date: December 31, 1978

Implementation of the project was initially delayed by Covernment's delay in appointing consultants for detailed engineering and construction supervision, slow field surveys and procurement difficulties. Approximately 30% of the contracts under the project have now been awarded. After a slow start present progress is satisfactory. Cost overruns are being met by reducing lower priority items. The project remains viable in view of increase in agricultural commodity prices and is expected to be completed by mid-1978.

Credit No. 397

Telecommunications Project II US\$5.5 million Credit of
June 20, 1973; Effective Date: September 11, 1973
Closing Date: June 30, 1980

Procurement under this Credit is more than a year behind schedule because of delay in appointing an expert to assist with preparation of bidding documents. UK Government has recently provided consultants for this purpose and procurement is expected to start soon. In June 1975 HMG introduced an important institutional change by converting the Nepal Telecommunications Board into an independent Corporation. This is expected to facilitate decision making within the institution.

Credit No. 470

Water Supply and Sewerage Project US\$7.8 million Credit
of May 8, 1974; Effective Date: June 26, 1974
Closing Date: June 30, 1978

The Water Supply and Sewerage Board was established and work on the project started with minor delay. Project implementation is now proceeding satisfactorily with approximately 20% of the contracts awarded. Because of recent price escalations, large cost overruns are expected which will be partially met by financing the technical assistance component of the project through UNDP grants. In 1976 when the major tender prices are known, the Government will decide whether to finance the remaining cost overruns or reduce the scope of the project. The project is expected to be completed by June 1978.

Credit No. 505

Settlement Project US\$6.0 million Credit of August 14,

1974; Effective Date: February 20, 1975; Closing

Date: July 15, 1982

Project implementation is more than a year behind schedule due to delays in signing and making the credit effective. Subsequent delays were also encountered in preparing bidding documents which required more intensive supervision and assistance by Association staff; procurement procedures are now being speeded up. Bids for various types of equipment have been received and are now being evaluated by the Government.

NEPAL - KULEKHANI HYDROELECTRIC PROJECT

CREDIT AND PROJECT SUMMARY

Borrower:

His Majesty's Government of Nepal

Executing Agency:

The Electricity Department of the Ministry

of Water and Power

Beneficiary:

Nepal Electricity Corporation

Terms:

Standard

Terms to Beneficiary:

25 years with interest at 8-1/2% per annum

Project Description:

The project consists of:

(1) a rock-fill dam of 107 m in height;

(2) an intake structure;

(3) a headrace tunnel;

(4) a surge tank;

(5) a penstock;

(6) an underground powerhouse containing two 30 MW turbo-generating units;

(7) a tailrace tunnel;

(8) associated transmission and substation facilities.

ANNEX III Page 2 of 3 pages

1. Preliminary Works	Project Costs:	_	(I:	n US\$ Mill	ion)
2. Resettlement		Ì	Foreign	Local	<u>Total</u>
3. Civil Works 22.5 4.5 27.0		_	s 0.5		
4. Equipment 9.0 1.2 10.2			-		
Services 2.7 0.3 3.0					
Services 2.7 0.3 3.0 6. General Expenses - 1.0 1.0 7. Taxes and Duties - 0.2 0.2 8. Contingencies Physical 2.9 0.6 3.5 Price 18.9 2.8 21.7 TOTAL PROJECT COST 56.5 11.5 68.0 Financing Plan: (In US\$ Million) Foreign Local Total OECF Loan (Electromechanical Equipment and Transmission and Substation Facilities) 10.0 - 10.0 IDA Credit (Civil Works for main dam and spillway) 26.0 - 26.0 Kuwait Fund Loan (Metal Works and Civil Works other than main dam and spillway) 15.9 - 15.9 UNDP Grant (Engineering Services) 2.7 0.3 3.0 HMG 1.9 11.2 13.1 TOTAL 56.5 11.5 68.0 Estimated Disbursements: Fiscal Year Annual (Us\$ 000's) 1977 3,700 3,700 15.300 1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500			9.0	1.2	10.2
6. General Expenses			2.7	0.3	3.0
7. Taxes and Duties			_		
S. Contingencies Physical 2.9 0.6 3.5 Price 18.9 2.8 21.7					
Physical 2.9 0.6 3.5 Price 18.9 2.8 21.7					
Price 18.9 2.8 21.7 TOTAL PROJECT COST 56.5 11.5 68.0 Financing Plan: CIN US\$ Million Foreign Local Total Foreign Local Local Foreign Local Total Foreign Local Total Foreign Local Total Foreign Local Foreign Local			2.9	0.6	3.5
TOTAL PROJECT COST 56.5 11.5 68.0					
CIN US\$ Million Foreign Local Total					
OECF Loan (Electro- mechanical Equip- ment and Trans- mission and Sub- station Facilities) 10.0 - 10.0 IDA Credit (Civil Works for main dam and spillway) 26.0 - 26.0 Kuwait Fund Loan (Metal Works and Civil Works other than main dam and spillway) 15.9 - 15.9 UNDP Grant (Engi- neering Services) 2.7 0.3 3.0 HMG 1.9 11.2 13.1 TOTAL 56.5 11.5 68.0 Estimated Disbursements: Fiscal Year Annual Cumulative (US\$ 000's) 1977 3,700 3,700 1978 3,600 7,300 1979 8,000 15,300 1979 8,000 15,300 1980 8,200 23,500		TOTAL PROJECT COST	56.5	11.5	68.0
OECF Loan (Electro-mechanical Equip-ment and Trans-mission and Sub-station Facilities) 10.0 - 10.0	Financing Plan:	_	(I1	n US\$ Mill	Lion)
mechanical Equip- ment and Trans- mission and Sub- station Facilities) 10.0 - 10.0 IDA Credit (Civil Works for main dam and spillway) 26.0 - 26.0 Kuwait Fund Loan (Metal Works and Civil Works other than main dam and spillway) 15.9 - 15.9 UNDP Grant (Engi- neering Services) 2.7 0.3 3.0 HMG 1.9 11.2 13.1 TOTAL 56.5 11.5 68.0 Estimated Disbursements: Fiscal Year Annual (US\$ 000's) 1977 3,700 1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500		<u> </u>	Foreign	Local	<u>Total</u>
UNDP Grant (Engineering Services) 2.7 0.3 3.0 HMG 1.9 11.2 13.1 TOTAL 56.5 11.5 68.0 Estimated Disbursements: Fiscal Year Annual (US\$ 000's) 1977 3,700 3,700 1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500		mechanical Equip- ment and Trans- mission and Sub- station Facilities IDA Credit (Civil Works for main dam and spillway) Kuwait Fund Loan (Metal Works and Civil Works other		-	
neering Services 2.7 0.3 3.0 1.9 11.2 13.1 1.0 1.9 11.2 13.1 1.0			15.9		15.9
HMG 1.9 11.2 13.1 TOTAL 56.5 11.5 68.0 Estimated Disbursements: Fiscal Year Annual Cumulative (US\$ 000's) 1977 3,700 3,700 1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500			2 7	n 3	3 0
TOTAL 56.5 11.5 68.0 Estimated Disbursements: Fiscal Year Annual (US\$ 000's) 1977 3,700 3,700 1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500		•			
Estimated Disbursements: Fiscal Year Annual Cumulative (US\$ 000's) 1977 3,700 3,700 1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500		nnG	1.9	11,2	13.1
1977 3,700 3,700 1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500		TOTAL	56.5	11.5	<u>68.0</u>
1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500	Estimated Disbursements:	Fiscal Year			
1978 3,600 7,300 1979 8,000 15,300 1980 8,200 23,500		1977	3,700		3,700
1980 8,200 23,500	•	1978			7,300
1980 8,200 23,500		1979	8,000		15,300
		1980			
		1981	2,500		26,000

Procurement and

Disbursement Arrangements: Civil works contract would be awarded on the

basis of international competitive bidding. The proposed credit would be disbursed against 100% of foreign exchange component of civil

works financed by IDA.

Consulting Services: Nippon Koei Co., Ltd. of Japan has been

retained as the Consultants to provide services for field investigation, detailed design, preparation of specifications and tender documents, procurement and construction supervision of the project, with the Bank as the Executing

Agency of UNDP technical assistance.

Rate of Return: 10.7%.

Appraisal Report: Report No. 833-NEP, dated November 25, 1975.

		•	



