

## Major Works Undertaken by ITECO Nepal (P) Ltd.

| S.N. | Project Description  | Client  | Specific Jobs Performed & Volume of Works  | Contract Value | Date of Start | Date of Completion |
|------|--|---|--|----------------|---------------|--------------------|
| 1    | Salleri Chialsa Small Hydel Project (Phase II), Solukhumbu District                        | Directorate for Development Cooperation and Humanitarian Aid (DEH), Federal Government of Switzerland | Detailed narrative design and construction of 400 kW rural electrification project aiming at electrification of villages, district headquarter and supplying power to different small scale industries and also to Tibetan Carpet Factory mainly for the carpet dye plant. The services provided were complete designing and project execution on a turnkey basis and also included design and construction supervision of the dye house and equipment installation for a electrified dye plant. | 1,800,000      | Oct-82        | Oct-85             |
| 2    | Micro Hydel Project, Ekang Khola, Bhandar, Surke Khola and Thado Khola, Ramechhap District | Private Parties   | Preliminary survey and design to install a new water powered mill or improve existing mill to produce electricity.   | 60,000         | Jun-85        | Aug-85             |
| 3    | Jogimara Majhimtar Limestone Quarry Project, Chitwan                                       | Food and Agricultural Organization of the United Nations (FAO)  | Feasibility study for the transport of limestone and the quarry exploitation, geological and topographical survey, preliminary design of the quarry exploitation system (rails, conveyor belts, roads) design of the Trishuli River Crossing (road bridges, ropeway, suspended conveyor belt). Economic and Financial Analysis of different  | 125,000        | Jun-85        | Oct-85             |
| 4    | Bhairavkund Small Hydropower Project (200 kW), Tatopani, Sindupalchowk District            | ITECO, Switzerland  | A 200 kW small hydro power station utilising a natural fall for supplying power to a very important trade point, through which a large volume of trade between Nepal and China takes place.  | 120,000        | May-86        | Aug-86             |
| 5    | State of Experience Study of Existing Small Hydro Project, Solukhumbu District             | ITECO, Switzerland  | The aim of the study was to document relevant experience in the area of design, operation, maintenance and management of small hydel projects, currently in operation in Nepal with the view of helping Salleri-Chialsa Small Hydel Project to formulate its own organization set up and tariff  | 220,000        | Jun-86        | Aug-86             |
| 6    | Wool Dye House Construction, Solukhumbu District   | ITECO, Switzerland  | Construction of a carpet wool dye house in Solukhumbu District.  | 70,000         | Nov-86        | Feb-87             |
| 7    | Bibliography of Hill/rural Roads and Bridges in Nepal                                      | International Centre for Integrated Mountain Development,   | Preparation of Detailed bibliography of hill/rural roads and bridges in Nepal.   | 25,000         | Nov-86        | Apr-87             |

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| 8    | Conceptual Input Study of Salleri Chialsa Hydel Project, Solukhumbu District                  | Directorate for Development Cooperating and Humanitarian Aid (DEH), Federal Government of Switzerland | Study into possible approaches to institutional structures in order to address the problems of high operating costs, poor reliability and electricity utilization and the low socio-economic benefits produced by isolated electricity producing systems and recommend the most suitable institutional structures as well as the viable tariff rates and structures for operation and maintenance of this Small Hydel Project. | 100,000        | Dec-86        | Feb-87             |
| 9    | Flood Disaster Appraisal Project, Sindhupalchowk District                                     | Swiss Development Cooperation (SDC)   | Flood Disaster Appraisal includes assessment of damages along Arniko Highway Corridor occurred due to devastating flood event of 1987.   | 100,000        | Jun-87        | Nov-87             |
| 10   | Charnawati Rehabilitation Project (Phase I), Sindhupalchowk District                          | Swiss Development Cooperation (SDC)   | Construction of 20 m span open Baily Bridge. Planning and general support in management of Project Logistics/Procurement, Site Supervision and overall administration in road rehabilitation, approach road, river control works and landslide stabilization for road protection.  | 1,400,000      | Nov-87        | Sep-88             |
| 11   | Charnawati Rehabilitation Project, Design in Alternative Realignment, Sindhupalchowk District | Swiss Development Cooperation (SDC)   | Study for alternative alignment in the Charnawati valley to avoid risks due to triggered landslides.   | 100,000        | Dec-87        | Jan-88             |
| 12   | High Tension Line Design, Salleri Chialsa Small Hydel Project, Solukhumbu District            | ITECO, Switzerland  | 11 kV High tension line to Phaplu, Chialsa, Salleri and Khorla load centres (total about 7 km).  | 180,000        | Jan-88        | Apr-88             |
| 13   | Drilling Operations for Charnawati Rehabilitation Project, Sindhupalchowk District            | Swiss Development Cooperation (SDC)   | The project consists of monitoring of the two most critical sites Kothey (km 75 Arniko highway) and Kalimati (Km 43 of Lamosangu-Jiri Road).   | 1,200,000      | Jan-88        | Mar-88             |
| 14   | Geophysical Survey, Sindhupalchowk - Dolkha District  | Swiss Development Cooperation (SDC)   | The Project consists of various geotechnical investigations along Arniko and Lamosangu-Jiri Roads.   | 80,000         | Feb-88        | May-88             |
| 15   | Geophysical Survey, Sindhupalchowk - Dolkha District  | Swiss Development Cooperation (SDC)   | Planning, supervision and execution of 85 km of Arniko Highway and 110 km of Lamosangu-Jiri Road Ground control surveys for the purpose of aerial mapping of the areas.  | 1,700,000      | Apr-88        | Oct-89             |

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| 16   | Arniko Highway Rehabilitation Project, Sindhupalchowk District                                       | Swiss Development Cooperation (SDC)   | Detailed engineering geological survey and inventory of Arniko Highway (km 30 to km 114, chinese border). Inventory maps were prepared. Pavement and structures conditions, existing geological and hydrological conditions and existing vegetative covers were evaluated. Benkelman beam tests, sampling of pavement materials and core drilling in selected landslide areas were executed on the basis of preliminary inventory surveys. | 2,000,000      | Apr-88        | Feb-90             |
| 17   | Survey of 36 Drinking Water Schemes in the IHDP Area, Sindhupalchowk - Dolkha District               | Integrated Hill Development Project (HMG/SDC)   | The project was to evaluate the water supply schemes during handing over phase of IHDP.  | 88,000         | Apr-88        | Jul-88             |
| 18   | Evaluation of IHDP Drinking Water Schemes, Sindhupalchowk - Dolkha District                          | Integrated Hill Development Project (HMG/SDC)   | Evaluation of drinking 32 water schemes constructed under IHDP financing.  | 100,000        | Aug-88        | Sep-88             |
| 19   | Survey of 4 Drinking Water Schemes in the SDLP Area, Sindhupalchowk - Dolkha District                | Integrated Hill Development Project (HMG/SDC)   | The project included evaluation of emergency projects related to drinking water and irrigation during termination stage of Sindhupalchowk - Dolakha landslide project.   | 220,000        | Aug-88        | Oct-88             |
| 20   | Landslide Surveys, Sindhupalchowk - Dolkha District  | Swiss Development Cooperation (SDC/N)   | The project consisted of various landslide surveys along Arniko and Lamosangu-Jiri road following the devastating flood event of 1987.   | 180,000        | Oct-88        | Nov-88             |
| 21   | Arniko Highway Rehabilitation Project/Landslide Monitoring Surveys, Sindhupalchowk - Dolkha District | AHRP/SDC  | The project consisted of monitoring of landslides along Lamosangu - Jiri road and Arniko Highway.  | 510,734        | Oct-88        | Jun-92             |
| 22   | Charnawati Rehabilitation Project (Phase II), Sindhupalchowk   | Swiss Development Cooperation (SDC/N)   | The Project incorporates new technological application including anchor retaining walls for landslide, subsurface drilled drains for drainage works and application of tetrapols (CABS) for river training and application of bio-engineering in stabilisation of landslide.   | 3,200,000      | Oct-88        | Sep-89             |
| 23   | Salleri-Chialsa Small Hydel Project Design/Construction (Phase II), Solukhumbu District              | Directorate for Development Cooperation and Humanitarian Aid (DEH), Federal Government of Switzerland | The project included design and construction of 400 kW small hydropower project under turn-key arrangement.  | 1,800,000      | Jan-89        | Aug-89             |

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| 24   | Detailed Engineering Survey and Design of Gorkhe - Manebhanjyang Road, Ilam                         | HMG/DOR   | The project consisted of detailed survey and design of Gorkhe-Manebhanjyang road (12 km).   | 63,000         | Mar-89        | Jul-89             |
| 25   | Detailed Engineering Survey and Design of MRM-Bhajani Bhansar Road, Kailali                         | HMG/DOR   | Detailed engineering survey and design of MRM-Bhajani Bhansar Road.   | 66,000         | Mar-89        | Jul-89             |
| 26   | Detailed Engineering Survey and Design of Siddha Vikas Marg, Kaski District                         | HMG/DOR   | Detailed engineering survey and design of Siddha Vikas Marg.  | 43,200         | Mar-89        | Jul-89             |
| 27   | Status Survey of Drinking Water Supply Schemes in IHDP Area, Dolakha - Sindhupalchowk               | Integrated Hill Development Project (HMG/SDC/N) | Evaluation of drinking water projects undertaken during IHDP period.  | 503,000        | Apr-89        | Sep-89             |
| 28   | Hetauda-Kathmandu Ropeway Rehabilitation Project  | HMG/MOWT  | The project consists of preparation of Hetauda-Kathmandu Ropeway including costing for the implementation.  | 40,000         | Sep-91        | Oct-91             |
| 29   | Charnawati Rehabilitation Programme (CHRP), Phase III, Dolakha District                             | Swiss Development Cooperation (SDC)             | The project was implemented as a normal project under client-consultant-contractor model using FIDIC model and consisted of further rehabilitation measure to provide definite solution at Charnawati Crossing. | 6,000,000      | Oct-89        | Nov-91             |
| 30   | River Training Projects (Karnali River - 30 km), Bardiya District                                   | HMG/DOI   | Survey and design of river training work along 30 km length of Karnali river.   | 109,700        | Mar-90        | Jul-90             |
| 31   | River Training Projects (Tinau River - 47 km), Butwal District                                      | HMG/DOI   | Survey and design of river training works along 47 km length of Tinau river.  | 160,000        | Mar-90        | Jul-90             |
| 32   | Feasibility Study and Design of Baitadi - Darchula Road Project (BDRP), Baitadi - Darchula District | HMG/DOR, Design Section                         | The project consisted of review of existing alignment, socio-economic, feasibility study and detailed design of 20 km stretch etc.  | 850,000        | Mar-90        | Feb-91             |
| 33   | River Training Projects (Babai River - 42 km), Banke - Bardiya District                             | HMG/DOI   | The project consisted of river training works along 42 km length of Babai River.  | 144,725        | Mar-90        | Jul-90             |
| 34   | Detailed Engineering Survey and Design of Chitwan Banpath (9 km), Chitwan                           | HMG/DOR   | The project consisted of detailed engineering survey and design of a part of Chitwan - Banpath  | 260,000        | Mar-90        | Jun-90             |
| 35   | Detailed Engineering Survey and Design of Chaurjhari - Jajarkot (4 km), Jajarkot - Rukum District   | HMG/DOR   | The project consisted of detailed engineering survey and design of a part of Chaurjhari - Jajarkot road (4 km).   | 260,000        | Mar-90        | Jun-90             |
| 36   | Road Flood Rehabilitation Project (RFRP), Arniko Highway Rehabilitation, Sindhupalchowk             | HMG/DOR   | Landslide stabilization, road improvement and river protection works along km 62-87 of Arniko Highway.  | 4,000,000      | Jul-90        | Oct-93             |
| 37   | Bhalubang-Pyuthan Road Assessment, Pyuthan District   | HMG/DOR, Design Section                         | The project consisted of geotechnical assessment of Bhalubang - Pyuthan road.   | 25,000         | Dec-90        | Jan-91             |

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| 38   | Salleri Electricity Utilization Project (Phase II), Solukhumbu District  | ITECO Switzerland           | The project consisted of detailed engineering survey and design and erection of HT and LT lines  | 200,000        | Aug-91        | 1992               |
| 39   | Road Feasibility Study and Engineering Design for Rapti Development Project, Dang - Rolpa District   | USAID/Nepal                 | Feasibility assessment and engineering design for improvement of an existing 30 kilometer tractorable track from Ghorahi to Holeri to motorable standard and construction of a 45 km mule track from Kapurkot to Jinebang in the Rapti Development area. These roads were recommended for implementation by the Rapti Project Mid Term Evaluation Teams. | 1,350,000      | Sep-91        | Dec-91             |
| 40   | Charnawati Area Maintenance, Sindhupalchowk District   | SDC/N                       | The project consisted of maintenance of the works at Charnawati area by local consultant.  | 1,605,000      | Dec-91        | Jun-93             |
| 41   | Detailed Engineering Survey and Design for Second Road Improvement Project<br>a) Section 1:Gaighat-Okhaldhunga-Salleri<br>b) Section 2:Tulsipur-Sallyan<br>Sagarmatha - Rapti Zone | HMG/DOR                     | The project consisted of detailed engineering survey and design of SRIP roads: Gaighat-Okhaldhunga and Tulsipur-Salyan roads including the 198 m length tunnel between ch 13+159 and ch. 13+357 along right bank of Sunkoshi just after Karkuss VDC at 232 to 253 masl.  | 20,000,000     | Jan-92        | Oct-93             |
| 42   | Road Flood Rehabilitation Project, Arniko Highway Rehabilitation, Sindhupalchowk District  | HMG/DOR                     | The project consisted of rehabilitation of 10 most critical stretches along Arniko Highway (km 62 - km 90)   | 9,500,000      | Jan-92        | Dec-93             |
| 43   | Road Flood Rehabilitation Project, Thankot - Naubise Road Rehabilitation, Kathmandu-Dhading District   | HMG/DOR                     | The project consisted of rehabilitation of 16 critical sites along Thankot - Naubise Road.   | 6,162,142      | Mar-92        | Mar-94             |
| 44   | Karnali Multipurpose Hydropower Project (Bridging Studies), Kailali District   | Himalayan Power Consultants | The project was related to the Karnali Multipurpose Hydropower Project, environmental aspects to bridge the lacking information.   | 350,000        | Mar-92        | Jun-92             |
| 45   | Adhoc Study for Preparation of an Implementation Plan for Environmental Measures in Bhutan, Phase I  | FAO, Rome                   | The project consisted of geotechnical studies, design and trial implementation of environmental measures along Lateral highway and Bartsam feeder roads - 99 km.   | US\$ 46,000    | Mar-92        | Oct-92             |
| 46   | Study of New and Renewable Energy Resources, all over Nepal  | UNDP/Nepal                  | The project included study on alternative forms of new and renewable energy resources.   | 750,000        | Nov-92        | Nov-93             |

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| 47   | Masterplan Study For Water Resources Development of Upper Karnali & Mahakali River Basins, Chameliya, Seti, Bheri, Lohare (Darchula, Bajhang, Surkhet, Dailekha) | JICA   | The study included Geotechnical works and Masterplan study for water resources development of upper Karnali and Mahakali river catchments.                                    | 2,500,000      | Jan-93        | Mar-93             |
| 48   | Arniko Highway Maintenance Project, Phase I, Package 2, Sindhupalchowk District  | AHMP/SDC   | The project consisted of detailed survey, investigation, design and preparation of reports and documentation for road corridor works between km 30 - km 57 of Arniko Highway. | 15,588,000     | Feb-93        | Jan-96             |
| 49   | Adhoc Study for Preparation of an Implementation Plan for Environmental Measures in Bhutan , Phase II  | FAO, Rome  | The project consisted of design of stabilization measures along Lateral highway and Bartsam feeder roads of Bhutan - 150km.   | 350,000        | Mar-93        | Sep-93             |
| 50   | ICIMOD - NORAD MMHP Project, Lamjung District  | ICIMOD   | The project consisted of preparation of video documentary on status of MMHP and review of manufacturing technologies.   | 1,000,000      | Aug-93        | Nov-93             |
| 51   | Prithvi Highway Rehabilitation Project, Dhading District   | Scott Wilson Kirkpatrick                                     | The project consists of rehabilitation of 40 km length of Prithvi highway following disaster during monsoon 1993.   | 4,500,000      | Sep-93        | Jul-94             |
| 52   | Tribhuvan Highway Rehabilitation Project, Makawanpur District  | DOR/KfW  | The project consisted of rehabilitation of TRP including Bhainse and Trikhandi bridge and 10 other critical spots along Bhainse-Hetauda Section.                              | 8,000,000      | Sep-93        | Dec-94             |
| 53   | Evaluation of Town Development Fund Board (TDFB), various places   | KfW, Germany   | The project consisted of evaluation of TDFB's projects at 20 different municipalities of Nepal.   | 180,000        | July 1994     | Sep-94             |
| 54   | Preappraisal of Rural Infrastructure in Dhading, Gorkha and Lamjung District   | KfW, Germany   | The project consisted of pre-appraisal study of rural infrastructures in Dhading, Gorkha and Lamjung including green roads.   | 432,000        | Sep-94        | Dec-94             |
| 55   | Hazard Mitigation Project, Sindhupalchowk District   | Swiss Government National Service of Hydrology & Meteorology | The project consisted of identification and study of instabilities in the water catchment area of Bhotekoshi river along Arniko Highway.                                      | 2,100,000      | Sep-94        | Jul-95             |
| 56   | RMP - Resealing Training of Dhangadhi - Godawari Road, Dhangadhi District  | RMP/DOR  | The project consists of resealing training for Road Maintenance Project under ODA finance for Dhangadhi-Godawari road.  | 3,996,000      | Apr-95        | Oct-96             |
| 57   | Detail Engineering Design & Soil Investigation of Jalad Bridge, Dhanusha   | HMG/DOR  | The Project consists of Jalad bridge of double span of 60 m.  | 445,000        | Feb-96        | Jul-96             |
| 58   | Detail Engineering Design & Soil Investigation of Nara Dhutaha Bridge,   | HMG/DOR  | The project consists of Nara Dhutaha bridge of single span bridge of 22 m.  | 415,000        | Feb-96        | Jul-96             |

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| 59   | Detail Engineering Design and Soil Investigation of Rapti Bridge, Chitwan District   | HMG/DOR  | The project consists of 300 m length of RCC bridge having 9 spans.  | 879,000                        | Dec-95        | Jun-96             |
| 60   | Detail Engineering Design and Soil Investigation of Barharwa Bridge, Rautahat District   | HMG/DOR  | The project consists of Barharwa bridge of 150 m length having 4 spans.   | 329,000                        | Mar-95        | Jul-95             |
| 61   | Detailed Feasibility Study of Sallyan-Musikot Road, Sallyan - Rukum District   | HMG/DOR  | The project consists of detailed feasibility study and review of alignment of 60 km roads of Kharibot - Musikot Sector. The study included social-economic  | 340,000                        | Apr-96        | Aug-96             |
| 62   | Economic Feasibility Assessment & Detailed Engineering Design of Ghorahi - Holeri Road and Kapurkot -Jinabang Mule track in Rapti, Dang - Rolpa District | USAID/Nepal                                      | The project consists of 30 km Motorable road from Ghorahi to Holeri and 37 km of Mule track from Kapurkot to Jinabang. The study included socio-economic studies.   | 350,000                        | Sep-91        | Dec-91             |
| 63   | Feasibility study and Design of Rehabilitation of Malekhu- Dhadingbesi Road, Dhading District  | DOR/KfW  | The project consisted of Feasibility Study and Design of Malekhu - Dhadingbesi road (21 km).  | 40,000,000                     | Jan-96        | Jul-96             |
| 64   | Detailed Feasibility Study of Tawa Khola Irrigation Sub-Project, Udayapur District   | HMG/DOI/DIO Udayapur                             | Detailed Feasibility Study included socio-economic studies as well.   | 330,000                        | May-94        | Aug-95             |
| 65   | Feasibility Study of Tadi Small Hydropower Project, Nuwakot District   | NEA,Rural Electrification & Small HP Directorate | Field investigation, site selection survey and socio-economical evaluation of Tadi SHP Project.   | 650,000                        | Mar-95        | Sep-95             |
| 66   | Kailash Pandhero Water Supply Scheme, Makwanpur District   | ITECO AG, Switzerland                            | Detailed Survey Design and Construction of Water Supply Scheme for ward no. 7 of Bhainse VDC.   | 400,000                        | Apr-93        | Jun-93             |
| 67   | Inventory Study - Micro Hydropower Project in Okhaldhunga District   | WECS   | Identification of most feasible potential microhydropower sites in Okhaldhunga district. The study included socio-economic aspects.   | 250,000                        | Mar-95        | Jul-95             |
| 68   | Detailed Study of Treatment Plant for Birendranagar Water Supply Project, Surkhet District   | HMG/DWSS   | Review of Existing systems, Design of new Water Treatment Plants.   | 139,000                        | Mar-95        | Sep-95             |
| 69   | Detail Survey and Design of District Road, Sunsari - Jhapa District  | DOR/HMG  | Detailed Survey and Design of district roads along Tarhara - Pakali, Hasposa - Chatara, Inarwa - Buderu, and Jhapa, Bajinathpur-Salakpur Road.  | 1,000,000                      | Apr-97        | Jul-97             |
| 70   | Software Development and Training on Pavement and Retaining Wall Design  | TBW Consulting Engineers Austria                 | Software Development and Training on Pavement and Retaining wall Design to Sr. engineers of   | 110,000                        | Oct-95        | Nov-95             |
| 71   | Detailed Feasibility Study and Design of Samari Bridge, Bagjhora Crossing and Bhainse-Hetauda Road (14 km) Project (RSBB), Makawanpur District           | KfW, Germany                                     | Feasibility study, Detailed Design of the replacement of a very old Samari bridge at Bagjhora Crossing - a problematic area of debris flows and slides, Bhainse-Hetauda Roads and Construction Supervision. | SFr. 486,281 (NRs. 19,504,730) | May-95        | Mar-96             |

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| 72   | Detailed Study of Treatment Plant and Distribution pipeline network for Pithuwa Water Supply Project., Chitwan District | DWSS/Chitwan                              | Survey, investigation and detailed design of the treatment plant and network analysis of the pipeline.   | 250,000        | Apr-96        | Jun-96             |
| 73   | Energy Resource and Consumption Profile of the Far Western Development Region   | WECS                                      | Preparation of energy resources and consumption profile, preparation of an autile of the secondary rate by resource and by sector and design of a detailed methodology for the preparation of energy | 564,200        | Feb-96        | Jul-96             |
| 74   | Tangting Micro Hydropower Village Electrification Project, Kaski District   | Annapurna Conservation Area Project / ADB | Detailed investigation, survey, design, construction supervision supply of all components, installation, distribution and operation of the micro-hydropower plant (27 kW) and training of operators. | 2,700,000      | Aug-95        | Nov-96             |
| 75   | Damak - Chisapani District Road Survey, Jhapa District  | DOR/HMG                                   | Survey and Design of 35 km district road   | 415,000        | Feb-97        | Jun-97             |
| 76   | Design and Supervision of Resealing Training Contract, Dhangadhi District   | DOR/HMG                                   | Survey, evaluation and quantification of pavement works from Dhangadhi to Godawari including   | 4,000,000      | Mar-95        | Feb-97             |
| 77   | Annual Surface Distress Survey and Road Roughness Survey on Strategic Road Network, all over Nepal                      | DOR/HMG                                   | Measurement of roughness of road using bump indicators and assessment of state of road pavement by visual inspection throughout all  | 985,000        | Mar-97        | Jul-97             |
| 78   | Road Feasibility Study Project, Rolpa, Baitadi, Dhangadi District   | DOR/HMG                                   | Feasibility study of 60 km road along Sulichour-Liwang, Shribhwar-Purachaudi and Budar Mill - Dobato road. The study included socio-economic   | 715,000        | Apr-97        | Jul-97             |
| 79   | Bridge Inventory Study, all over Nepal  | RMP/DOR                                   | Preparation of Inventory of Bridges  | 600,000        | Mar-95        | Aug-95             |
| 80   | Higher Education Project, TU, Kathmandu District  | Tribhuvan University                      | Institutional Building Design  | 2,859,180      | Jun-97        | Dec-97             |
| 81   | Indrawati Hydropower Project, Sindhupalchowk District   | NADCO                                     | Review of Feasibility Study  | 130,000        | Aug-97        | Oct-97             |
| 82   | Baglung District Micro Hydel Project, Baglung District  | REDP/UNDP                                 | Detailed Design of Micro Hydroelectric Power Project   | 227,200        | Jun-97        | Sep-97             |
| 83   | Tanahun Micro Hydro Project, Tanahun District   | REDP/UNDP                                 | Detailed Survey and Design of Baidi - 30 kW, Kau Shivapur - 40 kW  | 208,400        | Oct-97        | Feb-98             |
| 84   | Molung Khola Small hydropower Project, Okhaldhunga  | SHP/NEA                                   | Detailed Engineering Design, 1200 kW, Okhaldhunga  | 1,100,000      | Nov-96        | Jun-97             |

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| 85   | Bridge Remedial Works, Kathmandu District  | RMP/BU/DOR                  | Detailed Survey and Design of Remedial Works for Bridges Bishnumati Bridges at Gongabun and Nayabazar, Dhobikhola Bridges at Chabahil Bijulibazaar and Bagmati Bridge at Sinamangal, Dhobi Khola bridges at Armadi Arch Bridge at Baglung. | 1,100,000      | Apr-98        | Jul-98             |
| 86   | Arniko Highway Project, Phase II, Package 1, Sindhupalchowk District   | AHP, DOR/SDC                | Detailed Survey, Investigation, Design and Contract Documentation for Road and off-road works along Section 3 of Arniko Highway (Km 57 - Km 88). The project also consisted of Monitoring of Landslides at km 50+500, 51+800 and 74+000.   | 11,048,910     | Mar-95        | Feb-96             |
| 87   | Hill Agriculture Development Project. SINKALAMA Irrigation Programme (Loan No. 721 NEP (SF)).  | HMG/MOI/DOI                 | The project consisted of preparation of manual for survey, design and construction of small hill irrigation systems in Sindhupalchow, Kavrepalanchow, Lalitpur and Makwanpur.  | 4,000,000.00   | Jan-90        | Feb-92             |
| 88   | Road Maintenance Rehabilitation Project Second Year Periodic Maintenance, Banke/Bardia/Surkhet District                              | DOR/HMG / IDA               | Design and Construction Supervision of 114 km road along Nepalgunj - Guleria, Chisapani- Surkhet Highway.  | 31,800,000     | Aug-96        | Jun-99             |
| 89   | RMRP - Strategic Highway Roads Rehabilitation Programme, Mugling - Narayanghat Tansen Syangja District                               | DOR/HMG / IDA               | Survey, design and construction supervision  | 19,500,000     | Jan-97        | Jun-99             |
| 90   | RMRP - Strategic Feeder Roads Rehabilitation Programme, Birgunj - Kalaiya, Tansen - Tamghas, Nepalgunj - Bhagauda                    | DOR/HMG / IDA               | Survey, design and construction supervision  | 33,300,000     | Jan-97        | Jun-99             |
| 91   | Detailed Design and Construction Supervision of Samari Bridge, Bagjhora Crossing and Bhainse-Hetauda Road (RSBB), Makwanpur District | KfW, Germany/DOR            | Detailed design and construction supervision of Samari Bridge and Bagjhora Crossing; Pavement of off-road structures of 11 km Bhainse - Hetauda Road   | 1,630,000(Sfr) | May-96        | Dec-98             |
| 92   | Feasibility Study and Environmental Impact Assessment of Likhu-Khola Medium Hydropower Project, Okhaldhunga                          | Nepal Electricity Authority | Feasibility Study of 51 MW Likhu Khola Medium Hydropower Project, Environmental Impact Assessment Study, 46 km access road survey, Geotech and seismic study. The study included   | 14,083,784     | Jul-97        | Dec-98             |

## Major Works Undertaken by ITECO Nepal (P) Ltd.

| S.N. | Project Description  | Client  | Specific Jobs Performed & Volume of Works   | Contract Value | Date of Start | Date of Completion |
|------|--|---|---|----------------|---------------|--------------------|
| 93   | Design and Construction Supervision of Road Pavement on the RMP, Resealing Contrac, Package-12 along km 854+000 - km 878+000 (Bhada-Bhurigaun) Section of Mahendra Highway, Bardiya District | DOR/HMG / IDA   | Detail design and Construction Supervision of Road Resealing and Pavement Works with DBSD on the RMP, Resealing Contrac, Package - 12 along km 854+000 - km 878+000 (Bhada-Bhurigaun) Section of Mahendra Highway.  | 8,100,000      | Jul-98        | Jun-99             |
| 94   | Bayarghari Trail Suspension Bridge Project, Syangjha District  | SBD/DOR   | Design, effective supervision and execution of fabrication, galvanization and camp, trasportation and civil construction work of the pedestrian foot  | 5,350,000      | Feb-94        | Nov-94             |
| 95   | Consulting Services for 2nd Phase Detailed Engineering for Stormwater Drainage with Pavement in Damak Municipality, Jhapa District   | TDF / KfW   | Engineering field survey and detailed design of strom water drainage system of Damak Municipality Phase 2   | 532,650        | Jul-99        | Jan-00             |
| 96   | Road Maintenance and Development Project (RMDP), Rehabilitation Component. Tansen - Syangja, Tansen - Ridi - Tamghas, Lumbini - Taulihawa  | DoR/HMG / IDA   | Consultancy Services to update Economic Feasibility, Engineering Design and carry out Social and Enviornmental Assessment.  | 2,494,428      | Mar-99        | Jun-99             |
| 97   | Upgrading of the Malekhu-Dhading Besi Road, Rehabilitation of the Thopal Khola Bridge, Dhading - Chitwan District  | KfW, Germany  | Design and Construction Supervision and Rehabilitation and new construction of Trisuli Bridge, Thopal Khola Bridge and Upgrading of   | 10,610,000     | Sep-98        | Jun-02             |
| 98   | Development of Technical Audit Capacity of Chief Examiner Section (DTAC), MOPPW  | Ministry of Physical Planning and Works, RMDP DOR/HMGN /IDA | To Develop a Technical Audit Capacity at the Chief Technical Examiner Section (CTES) of MOWT and conduct of semi annual third party technical audit and financial review of RMDP activities of four new projects under the development programs of DoR/HMGN | 10,250,000     | May-00        | Feb. 2003          |
| 99   | Strengthening Project Implementation Practices Project   | HMG/Asian Development Bank (TA 3306)                        | Review and compilation of existing regulation, preparation of Directive and Introduce Modern Project Management Methods through conducting different workshop and training with all stakeholders  | 9,300,000      | Aug-00        | Mar-02             |
| 100  | Situation Analysis and Strategy Planning for Strom and Waste Water Management of Biratnagar Sub-Metropolitan City, Morang District   | TDF / KfW   | Field survey of existing strom and waste water drainage systems, status evaluation and palnning and design. Investigation of appropriate management methodology of the Project.   | 1,300,000      | Jul-99        | Mar-02             |
| 101  | Sunkoshi Small Hydropower Project, Sundhupalchowk District   | Sanima Hydropower (P) Ltd.                                  | Feasibility study of 2.6 MW Small Hydropower including detail topographic survey, geological and hydrological investigation, initial environmental examination, detail engineering design, construction planning and financial analysis                     | 1,003,600      | May-00        | June, 2001         |

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| S.N. | Project Description   | Client                                   | Specific Jobs Performed & Volume of Works   | Contract Value | Date of Start | Date of Completion |
|------|---|--|---|----------------|---------------|--------------------|
| 102  | Lab Building and Allied Works, Kaski District   | Higher Education Project                 | Detailed design and construction management of Lab and Allied Works of Prithvi Narayan Campus   | 2,573,788      | Jan-99        | Jun-00             |
| 103  | Detailed Engineering Survey, Soil Investigation and Detailed Design of  | DOR/HMG                                  | Detailed engineering survey, soil investigation and detailed design   | 423,350        | May-99        | Sep-99             |
| 104  | Basic Design Study on the Project for Improvement of Kathmandu Water Supply facilities  | JICA                                     | Basic Design Study on the Project for Improvement of Kathmandu Water Supply facilities  | 752,200        | Nov-00        | Dec-00             |
| 105  | Detailed Engineering for storm water drainage system in Hattigaunda, Dihigaun, Baguwa neighbourhoods in Bidur Municipality.   | TDF/ KfW                                 | Field survey of existing storm and waste water drainage systems and detail engineering design of drainage system.   | 260,000        | Apr-00        | Dec-00             |
| 106  | Prefeasibility study of Drainage/sewerage projects in Tansen, Tamghas, Baglung, Kusma, Sandikharka, Damauli and Putalibazar.  | DWSS                                     | Field survey and design of storm water drainage and sewerage system and preparation of cost estimate.   | 634,000        | Jan-01        | Apr-01             |
| 107  | Feasibility Study of New International Airport at Lumbini   | Civil Aviation Authority of Nepal (CAAN) | Review of air transport system and preliminary design of airport. Second International Airport Project.<br>Air traffic Air traffic study and layout plan based on ICAO framework. Determination of cost, preparation of plan for approach and landing aids.   | 2,596,000      | Jul-99        | Jul-00             |
| 108  | Design and Supervision of Maintenance, Rehabilitation and Improvement of Rural Roads in Kapilvastu district.                  | HMG/IDA                                  | Prepare the detailed designs, cost estimates and bid documents, supervision of the works ensuring the desired quality based on environmental friendly green road concept involving user's group. Technical and managerial assistance to the DDC. Ensure the roads selected for rehabilitation or minor upgrading on priority basis. | 700,000        | Dec-00        | Jun-02             |
| 109  | Survey, design, cost estimate, supervision of maintenance, rehabilitation and improvement of rural roads in Dhading district. | HMG/IDA                                  | Prepare the detailed designs, cost estimates and bid documents, supervision of the works ensuring the desired quality based on environmental friendly green road concept involving user's group. Technical and managerial assistance to the DDC. Ensure the roads selected for rehabilitation or minor upgrading on priority basis. | 680,000        | Apr-01        | Jun-02             |

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| S.N. | Project Description  | Client   | Specific Jobs Performed & Volume of Works   | Contract Value | Date of Start | Date of Completion |
|------|--|--|---|----------------|---------------|--------------------|
| 110  | District Roads Support Programme (DRSP)  | HMG/SDC  | Produce reports, plans, estimates and support DDC technical staffs in studies and surveys. Introduce simple techniques and systems to use local resources and technology for road maintenance, rehabilitations and construction operations in an effective, efficient way using environmental friendly green road concept involving the user's group of | 6,500,000      | Jul-99        | Ongoing            |
| 111  | Initial Environmental Examination of Rural Electrification Schemes Project           | NEA/Environmental Division   | Initial environmental examination studies of seven districts and rural electrification scheme (package - 2) monitoring and evaluation of Ramechhap, Sindhuli, Mohattari Sarlahi, Rautahat, Parsa and Dhading districts.   | 1,181,163      | Dec-00        | Apr-04             |
| 112  | District Transport Master Plan (DTMP)  | DDC, Bhaktapur   | Preparation of District Transport Master Plan to guide the spatial arrangement of rural settlement to as well as towns, markets and services center of district.  | 153,853        | Jun-01        | Feb-02             |
| 113  | Small Towns Water Supply and Sanitation Sector Project (Packages Trijuga and Fikkal) | DWSS / ADB   | Detailed engineering design and construction supervision of Fikkal, Ilam and Trijuga, Udayapur (Design Completed: Nov. 2003, Implementation: Ongoing)   | 8,108,513      | Jul-01        | Ongoing            |
| 114  | Upper Sagarmatha Agricultural Development Project                                    | Department of Agriculture and Cooperatives / ADB, USADP                        | Construction supervision of Okhaldhunga - Phaplu and Jayaramghat - Halesi - Diktel Environmental - Friendly Roads   | 26,758,061     | Oct-01        | Jun-02             |
| 115  | Pancheshwar Multipurpose Project   | Nepal - India Joint Project Office - Pancheshwar                               | Study of infrastructure facilities for Pancheshwar Multipurpose Project.  | 2,031,465      | Sep-01        | Jun-02             |
| 116  | 5 -10 MW Screening of Small Hydropower Projects                                      | Department of Electricity Development  | Screening Study of 50 SHP Projects on 5-10 MW Small Hydropower Projects in Koshi, Gandaki and Karnali river basins of Nepal   | 2,486,000      | Jan-01        | Feb-02             |
| 117  | Bagmati Area Sewerage Project, Updated Master Plan                                   | High Powered Committee for Implementation and Monitoring of Bagmati Area, BASP | Feasibility Study and Detailed Engineering Design to Update Master Plan for Bagmati Area Sewerage Project   | 1,122,000      | May-02        | May-03             |
| 118  | Dhobi Khola Corridor Improvement Project (Package - 1)                               | Kathmandu Valley Mapping Programme (KVMP)                                      | Planning and Engineering Design of Macro-Infrastructure Facilities of Dhobi Khola Corridor Improvement Project  | 646,470        | May-02        | Oct-02             |

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| S.N. | Project Description   | Client   | Specific Jobs Performed & Volume of Works   | Contract Value | Date of Start | Date of Completion |
|------|---|--|---|----------------|---------------|--------------------|
| 119  | Department of Education, Thimphu School planning and Building project<br>Topographical Survey of School Sites in                    | RGOB   | Department of Education, Thimphu School planning and Building project<br>Topographical survey of School Sites   | 7,520,000      | Jul-02        | Mar-03             |
| 120  | Human Resource Development Programme Package No. 55 Semi-Skilled Computer Training Programme., Ilam, Mechi                          | Human Resource Development Programme under Ministry of Science and Technology HMG, Nepal, Singh Durbar | 100 People were trained on Computer Operator Semi - Skilled Level at Ilam district, Mechi Zone.   | 589,208        | Jul-02        | Oct-02             |
| 121  | The Basic Study for Rural Electrifications through Small hydropower Development in Rural Hilly Area in Nepal, All Regions in Nepal. | Japan International Cooperation Agency (JICA)  | The study included basic study for rural electrification through development of small hydropower in remote hilly areas of Nepal. The projects included schemes 100 kW - 2000 kW in areas that not be served by national grid during the   | 7,700,000      | Oct-02        | Feb-03             |
| 122  | Topographic Survey, Middle Marsyangdi Hydroelectric Project, Bhoteodar, Lamjung   | FICHTNER JV, Germany   | A topographic survey to acquire the necessary data for the design work for 600 ha within the future reservoir, tunnel alignment and survey 15 ha at the new powerhouse site of the Middle Marsyangdi  | 4,000,000      | Aug-99        | Jan-00             |
| 123  | Reconstruction and Rehabilitation of Flood Damages along the Strategic Road Network - Arniko Highway (Km 38 to km 86)               | Department of Roads in Association with Swiss Agency for Development Cooperation                       | Detailed survey and rehabilitation for the repair of damaged sections of the listed sites such that the traffic flow is assured in Arniko Highway by making the interventions on time and such a manner that further damage can be prevented safeguarding the road assets and earlier investments.  | 1,500,000      | Mar-03        | Nov-2003           |
| 124  | Geotechnical Investigation at Kalidaha Landslide Section of Nayapul - Kirne Road, Dolakha District                                  | Himal Power Limited  | The project is conceived for undertaking the geotechnical investigation of Kalidaha Landslide at km 4+000 in Nayapul to Kirne road. The road is a part of Lamasangu - Ramechhap Feeder Road. The road was constructed as an access road to Khimti Hydropower.   | 1,200,000      | Mar-03        | April 2003         |
| 125  | Rural Access Program (RAP), Hilepani - Jayaramghat - Diktel Environment Friendly Road   | Department for International Development (DFID)  | Verification of the detailed design, survey and design of the new alignment using environment friendly concept, preparation of Users' Groups for construction, construction of two environment friendly roads namely Hilepani - Jayaramghat and Jayaramghat - Halesi - Diktel and recommendation for payment as well as submission of project final report and As Built Drawings. | 198,000,000    | Feb-03        | Oct-04             |

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| S.N. | Project Description   | Client   | Specific Jobs Performed & Volume of Works  | Contract Value | Date of Start | Date of Completion |
|------|---|--|--|----------------|---------------|--------------------|
| 126  | Topographic Survey, Middle Marsyangdi Hydroelectric Extension Project, Bhoteodar, Lamjung                   | FICHTNER JV, Germany   | The Middle Marsyangdi extension Hydroelectric Power Project is being undertaken by NEA with FICHTNER JV as engineering Consultant. The project required upgrading of capacity of 15 MW which required further extension topographical and  | 1,000,000      | Feb-03        | Apr-03             |
| 127  | Small Towns Water Supply and Sanitation Sector Project - Package No. - 11 (Bardibas, Kamalamai and Surunga) | Department of Water Supply and Sewerage / ADB  | The project consists of feasibility study, detailed engineering design and construction supervision of small towns water supply and Sanitation projects in towns of Kamalamai, Bardibas and Surunga. The project also consisted training to the users beneficiaries and management issued as well as technical trainings.(Design Completed: June 2004, Implementation: Ongoing)  | 15,150,000     | Nov-02        | Ongoing            |
| 128  | Road Network Development Project (RNDP), Eastern and Central Regions of Nepal                               | Ministry of Physical Planning and Works, RNDP, DOR/ADB                               | The project consists of detailed engineering design and construction supervision of different roads of eastern and central regions of Nepal. Pauwa Bhanjyang-Phidim (24km), Damak-Gaurigunj (22km), Urlabari-Bardanga (28km), Biratnagar-Rangeli-Bardanga (39km), Hile-Basantapur (26km), Basantapur-Chainpur-Khandbari (96km), Dolalghat-Chautara (25km), Border (Kakarvitta) (6km) and Belbari-Chauraha (East-West Highway) (140km)                                  | 220,000,000    | Aug-03        | Ongoing            |
| 129  | RMDP, Silgadhi - Sanfebagar Road Project (66 km)  | Ministry of Physical Planning and Works, RMDP, DOR/IDA (Cre No. NP-3293)             | The project consists of upgrading the gravelled road to sealed standards in the municipality areas, construction supervision of road surface by re-gravelling and overlaying in gravel works and review of design and cost estimation of project.. Total road length is 66.600 km long for spot improvement and  | 14,017,320     | Jul-03        | Ongoing            |
| 130  | Kamerotar Land Pooling Project, Madyapur Municipality   | Ministry of Physical Planning and Works, Kathmandu Valley Town Development Committee | The project consists of detailed topographic survey, cadastral survey, survey of existing socio-cultural feature, socio-economic survey, land pooling and preparation of existing land use, landscape maps and architectural planning and preparation of well developed land use plan for residence purpose, infrastructural planning (includes 150 km road, 150 km drainage and water supply facilities, electricity and telephone), preparation of cost estimate and | 472,890        | May-03        | Dec-03             |

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| S.N. | Project Description  | Client  | Specific Jobs Performed & Volume of Works   | Contract Value | Date of Start | Date of Completion |
|------|--|---|---|----------------|---------------|--------------------|
| 131  | RMRP, Tansen - Tamghas Road Project (75 km)  | Ministry of Physical Planning and Works, RMDP, DOR/IDA (Cre No. NP-3293)              | Construction and upgrading of feeder roads, including resettlement assistance, environmental management and monitoring and technical assistance for design, project coordination and construction supervision. Rehabilitation of selected strategic highways and feeder roads, periodic maintenance of strategic roads and policy reform and institutional strengthening and training.          | 13,090,292     | Nov-03        | Ongoing            |
| 132  | Strategic Environment Assessment (SEA) of National Water Plan  | Water and Energy Commission Secretariat (WECS) Ministry of Water Resources, HMG Nepal | The National Water Plan (NWP) is being prepared by Water and Energy Commission Secretariat (WECS) in support of the World Bank, based on approved "Water Resource Strategic, Nepal 2002" for rational utilization of country's water resources. A rigorous environmental assessment of the plan, using the SEA tool, is being carried out to ensure environmental soundness and sustainability. | US\$ 31,646.00 | Feb-03        | Jul-03             |
| 133  | Situation Analysis and Strategy Planning for Storm Water Management of Malangawa Municipality (K2G-006-F), Bara District | TDF / KfW   | Design and detail engineering for core area drainage rehabilitation and extension in Malangawa Municipality.  | 500000.00      | Sep-03        | Sep-04             |
| 134  | Institutional Strengthening and Training under Road Maintenance and Development Project                                  | DOR/Kathmandu   | Institutional Strengthening for Department of Road  | 180,000,000    | 2001          | 2004               |
| 135  | Narayanghat-Mugling Highway under Maintenance and Development Project, Road Rehabilitation Component                     | Departments of Road, Kathmandu  | Conduct a walkover survey to assess the condition of damaged sites, damaged sites from geotechnical, engineering geological and hydrological/river engineering point of view, survey of cross section, remedial/mitigation works, quantity estimates for rehabilitation, prepare documentation brief narrative report, design and submit to DoR   | 2,500,000      | Nov. 2003     | Apr-04             |
| 136  | Forest Hydrological Research in Hoopa Valley   | Hoopa Valley Tribal Council   | Monitoring and evaluation of forest and road management practices, Gathering of baseline data for GIS model.  | US\$ 50,000.00 | May-00        | Sep-00             |
| 137  | Drainage and Sewerage Project in Sindhuli/Bhaktapur/Ramechhap Towns  | DWSS/HMG Nepal  | Engineering field survey and detailed design of storm water drainage system of Sindhuli/Bhaktapur/Ramechhap   | 400,000.00     | Mar-04        | Sep-04             |

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| S.N. | Project Description  | Client   | Specific Jobs Performed & Volume of Works  | Contract Value | Date of Start | Date of Completion |
|------|--|--|--|----------------|---------------|--------------------|
| 138  | Road Corridor Environment Improvement Study of (a) Prithvi Rajmarg (Naubise-Mugling 84 Km) and (b) Birgunj-Kalaiya (12 Km) Road, Department of Roads, Geo-Environment Unit   | DoR, Geo-environment Division  | Road Corridor Environment Improvement Study of (a) Prithvi Rajmarg (Naubise-Mugling 84 Km) and (b) Birgunj-Kalaiya (12 Km) Road, Department of Roads, Geo-Environment Unit   | 202,200.00     | Jul-04        | Ongoing            |
| 139  | Transport Connectivity Sector Project TA NEP-4347 <b>Candidate Feeder Roads:</b> Road Upgrading, Phidim - Taplejung (86 km), Okhaldhunga - Diktel (60km), Sunkoshi - Okhaldhunga (17 km), Tamakoshi-Manthali - Khurkot (69 km), Baglung-Beni-Jomsom (96 km) <b>Road Improvement/Widening:</b> Kathmandu-Suryabinayak (10 km), Bhaktapur - Changunaryan (6 km), New Construction: Okhaldhuna - Salleri (47km), Besishar - Chame (65 km), Chayngthapu - Gopetar-Myanglung (160 km), Ramechhap - Okhaldhunga (140 km), Ring Road Tinpile - Okharpauwa - Kolpu (25 km), <b>North South Road:</b> Widening/Upgrading Syaprubesi - Trishuli - Galchhi (80 km), New Construction Jomsom - Mustang 115 km) | DoR/ADB  | Prepare 10 years transport connectivity Programme, Focus on technically feasible, economically viable and socially and environmentally sound, recommend to Government measures to be strengthened to manage and operate the road network safely and efficiently. Proposed methods to strengthen local contractors capabilities to improve and maintain roads. (Total length of Roads 972 km) Foreign Consultant US \$ 3,37,000 and Local US\$ 63,000 | 45,00,000.00   | Nov-04        | Ongoing            |
| 140  | Hazard Mitigation in the Northern Sun Koshi and Bhotte Koshi Water Catchment Areas (HMWA), Nepal   | Swiss National Committee for IDNDR (UN) / Swiss National Hydrological and Geological Survey/ SDC Nepal/ HMGN | Research work on the fragile thick quaternary deposits of Bhotekoshi and Upper Sunkoshi catchment areas on geological and hazard mapping and surveying specific instabilities damaging farmland and threatening the Arniko Highway and Sunkoshi Hydroelectric Plant. Design of small scale engineering and bioengineering measures for controlling the instabilities.  | 21,31,567.00   | Sep-94        | Jan-97             |