



**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND PUBLIC WORKS**

***ROADS DEPARTMENT***

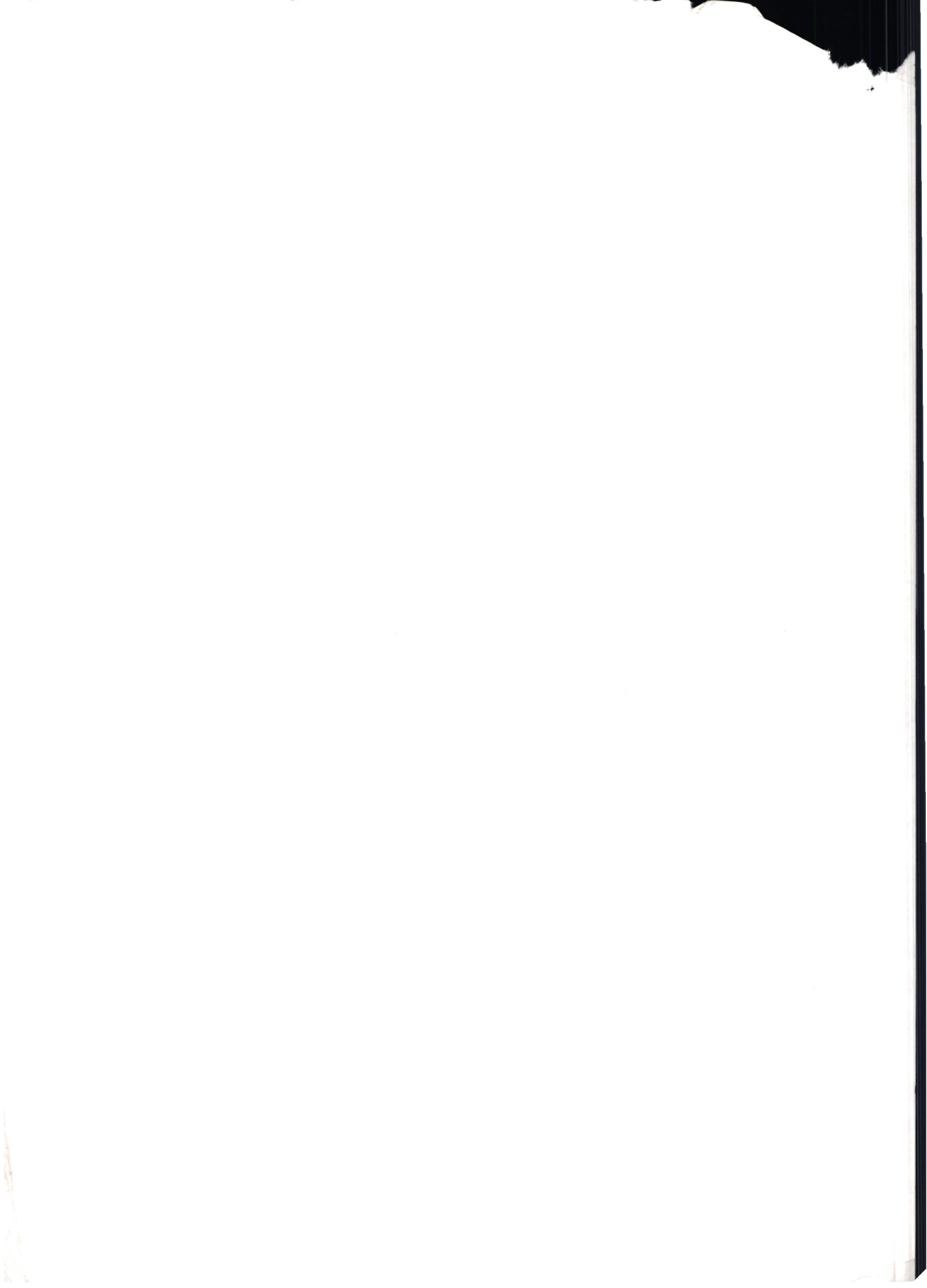


**STATUS OF ONGOING ROAD ACTIVITIES**

*16<sup>th</sup> APRIL, 2004*

Chief Engineer (Roads)  
Ministry of Roads, Public Works & Housing  
P.O Box 30260  
**NAIROBI**

Permanent Secretary  
Ministry of Roads, Public Works & Housing  
P.O Box 30260  
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## **ROADS DEPARTMENT**

### **1.0 GENERAL**

Kenya's Road Network is estimated at 150,600 Km and consists of about 63,000 Km of the classified road system and 87,600 Km of unclassified road system.

The Ministry of Roads, Public Works and Housing is responsible for all policy matters relating to all the roads in the country (the 150,600 Km) and for the management (development, operation, maintenance and rehabilitation) of the classified road system (the 63,000 Km). Further details of the classified road network are given in the table below.

**Table 1.1: Classified Road Network**

| <b>ROAD CLASS</b>             | <b>LENGTH BY SURFACE TYPE<br/>(KM)</b> |                 |                 | <b>TOTAL</b>    |
|-------------------------------|----------------------------------------|-----------------|-----------------|-----------------|
|                               | <b>BITUMEN</b>                         | <b>GRAVEL</b>   | <b>EARTH</b>    |                 |
| International Trunk Roads (A) | 2,886.0                                | 716.8           | 152.0           | 3,754.8         |
| National Roads (B)            | 1,432.9                                | 841.6           | 524.2           | 2,798.7         |
| Primary Roads (C)             | 2,487.2                                | 3,208.7         | 1,972.3         | 7,668.2         |
| Secondary Roads (D)           | 1,166.8                                | 6,483.7         | 3,565.4         | 11,215.9        |
| Minor Roads (E)               | 750.5                                  | 7,206.2         | 18,592.4        | 26,549.1        |
| Special Purpose Roads         | 213.5                                  | 8,724.3         | 2,366.2         | 11,304.0        |
| <b>All classes</b>            | <b>8,936.9</b>                         | <b>27,181.3</b> | <b>27,172.5</b> | <b>63,290.7</b> |

Source: Strategic plan for the Roads Sector

The Roads Department is headed by a Chief Engineer (Roads) who reports to the Permanent Secretary through the Engineer in Chief. The department is responsible for planning, design, construction, improvement, operation and maintenance of all classified roads in the country. The department has 7 branches; each headed by a Chief Superintending Engineer. The branches are: -

1. Planning Branch
2. Design Branch
3. Bridges Branch
4. Construction Branch
5. Roads Maintenance Branch
6. Technical Administration Branch
7. Technical Compliance

The main objectives of the Department are briefly described herebelow: -

- To provide or facilitate provision of basic access to all production, marketing and consumption centres through cost-effective, efficient and sustainable road construction and maintenance;
- To minimise vehicle operating costs (hence transport costs) on major transport corridors and heavily trafficked feeder roads by upgrading them to bitumen standards where necessary and through the rehabilitation and reconstruction of the existing and deteriorated road sections;
- To open and upgrade to bitumen or gravel standards roads to areas with potential for increased socio-economic development; and
- To promote road safety in the use of roads through design and installation of road signs, furniture and markings.

## **2.0 FUNCTIONS**

Following the establishment of the Kenya Roads Board, the functions of the Roads Department cover the management of classes A, B and C of the classified road network. These functions include the development, (planning, design, construction) operation and maintenance of the classified road network. The functions are described briefly herebelow.

## **2.1 Planning.**

- Overall planning and programming of long and short term road projects
- Monitoring on-going projects/programmes and preparing appropriate reports
- Review and analysis of national road policy for efficient utilisation of existing infrastructure
- Liaison with Government Ministries, organisations and Development partners on planning and implementation of road projects
- Providing policy and planning guidance on roads
- Ensuring that environmental and social concerns are integrated in roadwork's
- Ensuring routine maintenance of roads is carried out in a manner benign to road development
- Formulation and preparation of environmental manuals, standards and guidelines for the road sector
- Providing policy and planning guidelines for road safety
- Co-ordination of extra-ordinary activities such as emergency road repairs and disaster response; and liaison with other gook departments, NGO's and other agencies on environmental/social programmes

## **2.2 Design**

- Survey, design and tender documentation for road projects
- Formulation and preparation of standards and design manuals

- Dealing with matters related to road reserves and control of access to all classified roads
- Management of drawing office and survey and photogrammetry unit
- Maintaining the register of road engineering consultants and contractors
- Liaison with the road design consultants, Materials Branch and other organisations and agencies on matters related to road design

### **2.3 Bridges**

- The design of bridges; updating of bridge design manuals and specifications; preparation and sustenance of bridge inventory and condition survey
- Supervision of construction and maintenance of bridges
- Preparation of bridges programmes, Budget and progress reports

### **2.4 Construction.**

- Administration of roadwork's contracts both major improvements and rehabilitation of roads
- Preparation of estimates and contract documents for resealing and recarpeting of classified bitumen roads
- Preparation of monthly and quarterly reports
- Preparation of final construction reports
- Liaison with donors on all donor funded Construction projects

- Liaison with Government Departments for smooth running of projects
- Processing of contractor's and consultants payments

## **2.5 Maintenance**

- Maintenance of all class A, B, & C roads (Paved & Unpaved)
- Overall planning, budgeting and co-ordination of the activities of the maintenance (A, B, C Roads)
- Setting objectives & monitoring the performance class on the maintenance of A, B & C roads
- Preparation of estimates and contract documents for small scale maintenance contracts
- Co-ordinating Donor/GOK funding allocation for roads 2000 Programme
- Promoting strategic objectives of the roads 2000 programme
- Liaison with GOK Ministries and departments, other organizations and agencies of feeder roads

## **2.6 Technical administration**

- General Administration and Supervision of cleanliness in the department
- Co-ordination of Accident Reports and briefs
- Liaison with the relevant Government Ministries, departments, organizations and agencies (including donors) for professional and Technical training for officers in the department
- Overall co-ordination of Parliamentary Questions

- Co-ordination of Axle Load Enforcement
- Co-ordination of Personnel (including staff disciplinary) and Supplies Matters in the department
- Co-ordination of the Management Information System
- Attending Ministerial Advisory and Surcharge Committees among others.

## **2.7 Technical Compliance**

- Ensure that all projects are being implemented as per signed contracts.
- Check evaluation of claims by Chief Project Engineers before they are forwarded to Chief Supt./ Engineer (Construction).
- Check Tender Documents to ensure they are complete in all aspects.
- Check the quality and quantity of work done by Direct Labour Units to ensure there is value for money.
- Ensure that programmes approved by District Roads Committees are followed and that there is value for money for the works that are executed by District Roads Engineers.

## **3.0 CONDITION OF THE CLASSIFIED ROADS**

The last detailed and networked road condition survey was done way back in 1986 and its results cannot be valid today. However in 1995, it was estimated that 57% of the classified road network was in a good condition and was therefore maintainable. The balance (43%) was in a poor condition and required rehabilitation before it could be put in the maintenance regime.



Since then, some effort has been made to improve the situation but the effects of the El Nino induced rains diminished the impact of the efforts. It is therefore estimated that the condition of the classified road network is not very different from what it was in 1995 i.e. 57% good, 43% poor.

A detailed and networked road condition survey is being done now with funding from the World Bank. The survey will on completion provides a better picture of the condition of the network.

The poor condition of the classified road network is as a result of many constraints. Key among these constraints is inadequate funding, inappropriate institutional framework for road maintenance and overloading by Heavy Commercial Vehicles.

#### **4.0 CONSTRAINTS TO IMPROVED ROAD MAINTENANCE**

As implied in section 3.0 above, the major constraints to improved road maintenance can be grouped into two main areas viz. inadequate funding and inappropriate institutional framework.

##### **4.1 Funding Constraint**

The GOK with the assistance of the World Bank undertook a study of Expenditure and Funding Needs in the Roads Sector (October 1994) which indicated as follows: -

- i) The total maintenance expenditure required annually for 57% of the classified road network, which was in a maintainable condition, based on the most economically attractive practice, was about Ksh. 6.16 billion. (1994 prices)
- ii) A further Kshs. 35 billion (1994 prices) was required for the reconstruction and rehabilitation of roads, which were no longer in maintainable condition, (the 43%). Assuming that the rehabilitation could be done in 5 years, about Kshs. 7 billion was required annually for the next 5 years.

The actual expenditure on road maintenance has been well below the required amount. As a result, the Department has not been able to deliver road maintenance at the required level. The Department has also not been able to reduce significantly the portion of the network that is in poor condition.

## **4.2 Institutional Constraints**

The constraints that are related to the current institutional framework include overloading by Heavy Goods Vehicles, inappropriate utilisation of staff, inadequate staff motivation/training and inappropriate delivery methods.

### **i) Overloading**

The damage caused by overloaded goods vehicles to our relatively flexible roads has been a cause of great concern to government for many years. The weighbridge stations established in the 1970s accomplished little towards diminishing the problem. New mobile weighbridge units were acquired and the Traffic Act was amended in the early 1980s in order to make the axle load control function more effective. However, when enforcement under the new Act started in 1986, it was soon suspended due to administrative problems and pressure from external governments. The enforcement was re-started in 1989 but on a reduced scale and transporters were able to easily avoid the mobile weighbridge units. Full time enforcement was re-started in 1994 but the effect on overloading was minimal until about two years ago.

### **ii) Staff Utilisation/Motivation**

For many years prior to 1984, the government had, in its permanent establishment, a workforce ranging in number between 1,000 and 2,000 for road maintenance. This consisted of professionals and sub-professional staff, technical and administrative personnel as well as some higher grades of the artisan cadres. However, there was also a cadre of works-paid staff who were temporary employees to be taken on from time to time to undertake specific tasks. The works-paid

staff did not enjoy benefits designated to permanent staff such as pensions. The advantage of the system was that the Roads Department remained in full control of employment and discipline of the workforce through its provincial set up.

The works-paid establishment remained steady at 9,000 to 10,000 people in the whole country. While there may have been pockets of overstaffing, the staffing levels were generally appropriate to the funding levels available. In 1984 the works-paid staff were absorbed into the permanent establishment of the Road Department. The department therefore lost its control in terms of employment, dismissal and discipline while its ability to manage its workforce was seriously impaired.

The Department's ability to remunerate and motivate the larger permanent staff adequately was also affected by the increase in numbers since the staff emolument allocations did not increase proportionately.

### **iii) Delivery Methods**

For many years, most of the routine maintenance on our roads was done in-house by force account units. By 1992 conventional in-house (force account) units had become extremely expensive and inefficient as resource support supplies dried up, leaving substantial units and quantities of personnel idle when fuel, materials and spare parts became unavailable. Opportunities then existed for expanding the use of contractors into areas that hitherto had been the preserve of the in-house organisations.

As regards periodic maintenance, most of the work was done through contracts and was therefore not affected in the same way as the routine maintenance. However the diminishing funds available for roadwork's meant that the department could not perform the periodic maintenance at the level required to sustain the road network.

In the recent past, the government's inability to pay contractors promptly for work done has resulted into huge unpaid bills and in

some cases into contractual claims. The unpaid bills have in turn served to reduce the budget available for road works for subsequent years even further.

## **5.0 INSTITUTIONAL REFORM**

To address the institutional framework constraint, the Government with the assistance of the European Union, undertook the Road Sector Institutional Study (1995-1998). The objective of the Study was to propose an institutional framework within which the management of Kenya's road network will most effectively be undertaken. The study report proposed the following key aspects of the institutional framework.

- ◆ Separation of policy formulation from service delivery
- ◆ Promotion of transparency and accountability in all activities
- ◆ Promotion of businesslike management in delivery of roadwork's

To achieve these attributes, the study also proposed the formation of a Roads Board and the transformation of the current Roads Department into an autonomous Road Agency.

As a result, the Kenya Roads Board (KRB) was established by an Act of Parliament in December 1999 and the Board was launched in July 2000.

Other reform measures geared towards improved road management include: -

- ◆ Improved Prioritisation of road maintenance works
- ◆ More use of contractors in the delivery of maintenance works
- ◆ Staff rationalisation within the government wide Public Service Reform exercise.

To redress the overloading problem, the following measures have been taken

- (i) Axle Load Controls are being undertaken on a 24 hour basis
- (ii) The Axle Load Enforcement Unit impounds overloaded vehicles. The vehicle owners and drivers are then charged in a court of law where fines are imposed. Excess cargo is then off-loaded before the vehicles are allowed to proceed on their journeys
- (iii) An Axle Load Monitoring Unit has been established to monitor the state of overloading and to increase effectiveness of weigh-bridge stations
- (iv) Co-ordination of weighbridge operations between Kenya and Uganda has commenced
- (v) The cabinet approved the privatization of the Axle Load control function in principle and the Ministry in consultation with the Attorney General is in the process of amending the Traffic Act to provide the legal framework.

## **5.0 ONGOING ROAD PROJECTS**

Roads Department has several ongoing road projects under Construction, Maintenance and Planning Branches. These projects and their status are described in the following appendices.

- Appendix 1: Road Construction and Bridges
- Appendix 2: Road Design
- Appendix 3: Northern Corridor Road Transport Improvement Project
- Appendix 4: Nairobi and Mombasa Bypasses
- Appendix 5: Road Maintenance

**APPENDIX 1:**

**ROAD  
CONSTRUCTION  
AND BRIDGES**

**DEVELOPMENT AND  
FUEL LEVY BUDGETS**

CONSTRUCTION

**MINISTRY OF ROADS, PUBLIC WORKS & HOUSING  
DEVELOPMENT PROJECTS, 2003-2004**

| Serial No | Project Name                                     | Budgetary Allocation Ksh | Total Project Cost Ksh. | Financier (GOK/ Donor) | Project Status                               | Procure- ment Date                    | Project commence- ment Date             | Action Officer               | Remarks                                                                                                                                                                                                |
|-----------|--------------------------------------------------|--------------------------|-------------------------|------------------------|----------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1         | Nanyuki-Nyahururu                                | 5,000,000                | Under Procurement       | GOK                    | Procurement of consultancy services underway | May, 2004                             | June, 2004                              | CSE (D)                      | Prequalification of consultants completed. TOR issued to Consultants, Technical and Financial proposals to be brought back by mid March 2004                                                           |
| 2         | Nairobi-Msa Road Rehabilitation (IDA).           | 130,000,000              |                         | IDA/GOK                | Project Complete                             |                                       |                                         |                              |                                                                                                                                                                                                        |
| 3         | Northern Corridor Transport Improvement Project  | 495,000,000              | Approx US\$ 218 million | GOK/IDA                |                                              |                                       |                                         |                              |                                                                                                                                                                                                        |
| (a)       | Maji ya Chumvi - Miritini (A109)                 |                          |                         | GOK/IDA                | Design completed.                            | To be known after formal negotiations | To be known after procurement completed | Project Technical Team (PTT) | Project Preparation ongoing. Formal Project Appraisal completed 26 <sup>th</sup> February 2003. Presentation to WB Board and negotiations due April 2004. Procurement to commence after Board Approval |
| (b)       | Sultan Hamud-Machakos Turnoff (A109)             |                          |                         | GOK/IDA                | Design completed.                            | -do-                                  | -do-                                    | -do-                         | Advertisement for pre-qualification of contractors done                                                                                                                                                |
| (c)       | Machakos Turnoff-Athi River-Embakasi (A109/A104) |                          |                         | GOK/IDA                | Design in progress                           | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                                   |
| (d)       | Lanet-Nakuru—Njoro Turnoff (A104)                |                          |                         | GOK/IDA                | Design in progress                           | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                                   |
| (e)       | Njoro Turnoff-Mau Summit-Timboroa (A104)         |                          |                         | GOK/IDA                | Design Completed                             | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                                   |
| (f)       | Mau Summit-Kericho-Kisumu (B1)                   |                          |                         | GOK/IDA                | Design in progress                           | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                                   |
| (g)       | Airport North Road Dual Carriageway              |                          |                         | GOK/IDA                | TOR for Design and build has been prepared   | -do-                                  | -do-                                    | -do-                         | Advertisement for pre-qualification of consultants done                                                                                                                                                |

| Serial No | Project Name                        | Budgetary Allocation Ksh | Total Project Cost Ksh.   | Financier (GOK/ Donor) | Project Status                     | Procurement Date | Project commencement Date | Action Officer | Remarks                                                                                   |
|-----------|-------------------------------------|--------------------------|---------------------------|------------------------|------------------------------------|------------------|---------------------------|----------------|-------------------------------------------------------------------------------------------|
| (h)       | Road Condition and Inventory Survey |                          | US\$ 1.16 mill.           | GOK/IDA                | Fieldworks ongoing                 |                  | Jun-01                    | CSE (P)        | Fieldworks covered most district and trunk roads                                          |
| 4         | Malindi-Garsen-Bura                 | 10,000,000               |                           | GOK                    | Complete                           | 2002             | 13-Aug-02                 |                | Malindi - Garsen Section Complete. Funds to be re-allocated                               |
| 5         | Thika-Garissa                       | 10,000,000               |                           | GOK                    | Complete                           |                  |                           |                | Complete. Final Accounts                                                                  |
| 6         | Sultant Hamud-Mitto-Andei (EDF)     | 1,800,000,000            | 4,600,000.00              | EDF/EEC/G OK           | Construction Ongoing               | 13-12-2002       | 4-Apr-03                  | CSE (C)        | First 27 km from Sultan Hamud to be officially opened on 1 <sup>st</sup> May 2004         |
| 7         | Machakos-Wote-Mkindu                | 335,000,000              | Accounts under Evaluation | Kuwait/ GOK            | Completed 10/12/2003               |                  |                           | CSE (C)        | Final Accounts under Evaluation                                                           |
| 8         | Machakos-Wote-Makindu               | 100,000,000              |                           | OPEC/ GOK              | -do-                               |                  |                           | -do-           |                                                                                           |
| 9         | Wote-Makindu                        | 160,000,000              | Under design review       | OPEC/ GOK              | Under design review                | 15-7-03          | June, 2004                | CSE (D)        | Consultant is undertaking design and construction supervision                             |
| 10        | Wote Makindu                        | 75,000,000               |                           | BADEA/ GOK             | -do-                               |                  | -do-                      | CSE (D)        | -do-                                                                                      |
| 11        | Narok-Amala                         | 264,000,000              |                           | FRG/GOK                | Project Complete                   |                  |                           | CSE (C)        | Complete and taken over                                                                   |
| 12 (i)    | Emaili - Oliotokitok                |                          | US\$ 200,000              | GOK/ BADEA             | Draft Final Report completed.      |                  | 3-Sep-02                  | CSE (P)        | Draft Final Economic Feasibility Report awaiting approval                                 |
| 12 (ii)   | Dundori - OI Kalou Njabini          |                          | US\$ 200,000              | GOK/ BADEA             | Ongoing                            |                  | 30-Sep-02                 | CSE (P)        | Treasury countersigned contract agreement on 31st December 2003                           |
| 13        | Garsen-Lamu                         | 364,000,000              | 728,000,000.00            | FRG/GOK                | Substantially complete             | Jun-02           | 13/8/2002                 | CSE (C)        | Substantial completion inspection scheduled February 2004                                 |
| 14        | Embu-Kianjokoma                     | 9,000,000                | Under Procurement         | GOK                    | Procurement of consultant underway | May, 2004        | June, 2004                | CSE (D)        | Prequalification of consultant completed & TOR to be issued by 27 <sup>th</sup> Feb. 2004 |
| 15        | Ruiru-Isiolo                        | 40,000,000               |                           | GOK                    | Under design                       | May, 2004        | June, 2004                | CSE (D)        | Under design in house                                                                     |



|     | Project Name                                     | Ksh.        | (UNU Donor) | Project Status                                              | Start Date                            | Completion Date                | Action Officer | Remarks                                                                                    |
|-----|--------------------------------------------------|-------------|-------------|-------------------------------------------------------------|---------------------------------------|--------------------------------|----------------|--------------------------------------------------------------------------------------------|
| 16  | Kangonde-Kitui-Kibwezi                           |             | GOK         | Consultancy annulled                                        |                                       |                                |                |                                                                                            |
| (a) | Kangonde-Kitui (B)                               | 20,000,000  |             | Under Design                                                | May-04                                | 1-Jun-04                       | CSE (D)        | Under Design in-house                                                                      |
|     | (b) Kitui - Kibwezi                              | -           |             | TOR under Preparation                                       | To be known after formal negotiations | To be known after procurement. |                | Procurement to commence after the procedures are completed                                 |
| 17  | Kithimani-Makutano                               | 5,000,000   | GOK         | Procurement of consultant under-way                         | May, 2004                             | June, 2004                     | CSE (D)        | Prequalification of consultants completed & TOR under preparation                          |
| 18  | Improvement of Rural Infrastructure in Mt. Kenya |             | FRG/GOK     |                                                             | May 2001                              | June 2004                      | CSE (D)        | TOR's for Design to be ready by 27 <sup>th</sup> Feb. 2004                                 |
| 19  | Meru-Githongo-Chogoria                           | 50,000,000  | -do-        | TOR under preparation                                       | May, 2004                             | June 2004                      | CSE (D)        | Being undertaken under the Mount Kenya Rural Roads Infrastructure project financed by KfW. |
| 20  | Marimba-Nkubu-Mitunguu                           | 50,000,000  | -do-        | TOR under Preparation                                       | May 2004                              | June 2004                      | CSE (D)        | Being undertaken under the Mount Kenya Rural Roads Infrastructure project financed by KfW. |
| 21  | Rehabilitation Athi Ikutha Bridge                | 440,000,000 | Japan/GOK   | Ongoing                                                     | Oct-03                                | Dec-03                         | CSE (B)        | Works on schedule                                                                          |
| 22  | Kisii-Chemosit Rd                                | 400,000,000 | GOK         | Ongoing                                                     | 2/10/2001                             | 3-Oct-02                       | CSE(C)         | Expected completion Sept 2004                                                              |
| 23  | Keroka- Nyangusu                                 | 200,000,000 | GOK         |                                                             | 17-Oct-03                             | March, 2004                    | CSE (D)        | Performance Bond returned to await Design by end February 2004                             |
| 24  | Ndori-Owimbi                                     | 195,000,000 | GOK         | Consultant being financed for design review and supervision | May, 2004                             | June, 2004                     | CSE(D)         | Document to be issued to contractors in March 2004                                         |
| 25  | Rangala-Siaya-Bondo-Migori Owimbi-Luanda-Kotieno | 50,000,000  | GOK         | Advertised for consultants                                  | May, 2004                             | June, 2004                     | CSE (D)        | TOR's under preparation                                                                    |
| 26  | Kendu-Bay-H/Bay-Mbita                            | 50,000,000  | GOK         | -do-                                                        | May, 2004                             | June, 2004                     | CSE (D)        | -do-                                                                                       |

*Development Projects*

| Serial No | Project Name                                 | Budgetary Allocation Ksh | Total Project Cost Ksh. | Financier (GOK/ Donor) | Project Status                             | Procurement Date | Project commencement Date | Action Officer | Remarks                                                                                                                           |
|-----------|----------------------------------------------|--------------------------|-------------------------|------------------------|--------------------------------------------|------------------|---------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 27        | Kiminiini-Kapenguria                         | 12,400,000               |                         | GOK                    | Complete                                   |                  |                           | CSE (C)        | Allocation is to meet pending debt                                                                                                |
| 28        | Emali-Oloitokitok (Consultancy)              | 12,000,000               |                         | BADEA                  |                                            |                  |                           |                | See separate projects under Planning                                                                                              |
| 29        | Namanga-Amboseli (KWS)                       | 51,800,000               |                         | GOK                    |                                            | 2002/2003        |                           |                | Awarded by KWS in 2002/2003 FY                                                                                                    |
| 30        | Amboseli-Makutano                            | 22,400,000               |                         | GOK                    |                                            | -do-             |                           |                | -do-                                                                                                                              |
| 31        | Kimana Gate (KWS)                            | 22,400,000               |                         | GOK                    |                                            | -do-             |                           |                | -do-                                                                                                                              |
| 32        | Oloitokitok-Tsavo (KWS)                      | 43,400,000               |                         | GOK                    |                                            | -do-             |                           |                | -do-                                                                                                                              |
| 33        | Mai-Mahiu-Naivasha-Lanet                     | 300,000,000              |                         | EDF/EEC                | Under tender documentation                 | 28th June, 2004  | 1st Jan 2005              | CSE(D)         | Program agreed with EU. Loan effectiveness is in Sept 2004                                                                        |
| 34        | Mai-Mahiu-Narok                              | 185,000,00               |                         | France                 | Procurement of consultant underway         | March, 2004      | April, 2004               | CSE(D)         | Consultant will do design, tender evaluation & Supervision                                                                        |
| 35        | Mai-Mahiu-Narok (kfw)                        | 100,000,000              |                         | FRG                    | -do-                                       |                  | 1-Jun-04                  | -do-           | -do-                                                                                                                              |
| 36        | Ziwa-Kitale                                  | 5,000,000                | 5,000,000.00            | GOK                    | Complete                                   |                  |                           |                | Allocation is to meet pending addendum being processed                                                                            |
| 37        | Ziwa-Moi's Bridge                            | 10,000,000               |                         | GOK                    | Not yet awarded. Tenders received Dec 2002 |                  |                           |                | Design being reviewed for possible re-tender                                                                                      |
| 38        | Kipsigak-Serem - Shamakhokho                 | 900,000,000              | 1,200,000 mill          | China                  | Not started                                | Aug-03           | 1-Oct-03                  | CSE (C)        | Not started pending provision of electricity on site.                                                                             |
| 39        | Gambogi-Serem Jepron                         | 2,000,000                | 314,000,000.00          | GOK/ China             | Suspended                                  | Aug-96           | 15-Nov-96                 |                | Works suspended due to lack of local counterpart funds. 5km not done                                                              |
| 40        | Mayoni-Port Victoria (Bumala- Port Victoria) | 40,000,000               | Under Procurement       | GOK                    | Procurement of consultant underway         | May-04           | 1-Jun-04                  | CSE(D)         | Consultant to bring financial proposal for design review and supervision by 27th of Feb 2004                                      |
| 41        | Busonga-Siaya                                | 35,000,000               | Under Procurement       | GOK                    | Procurement of consultant underway         | May,2004         | June,2004                 | CSE(D)         | Consultant to bring financial proposal for design review and supervision by 27th Feb 2004                                         |
| 42        | Mumias-Busia                                 | 20,000,000               |                         | GOK                    |                                            | 22-Jul-93        | 3-Jan-94                  |                |                                                                                                                                   |
| 43        | Processional Way                             | 150,000,000              | Under Procurement       | GOK                    | Design documentation finalized             | 28th April, 2004 | May,2004                  | CSE(D)         | Design and documentation finalised. Documents are with MDC for clearance to be issued to prequalified contractor by 25th Feb 2004 |

*Development Projects*

| Serial No | Project Name                                      | Budgetary Allocation Ksh | Total Project Cost Ksh. | Financier (GOK/ Donor) | Project Status                        | Procurement Date | Project commencement Date | Action Officer | Remarks                                                                            |
|-----------|---------------------------------------------------|--------------------------|-------------------------|------------------------|---------------------------------------|------------------|---------------------------|----------------|------------------------------------------------------------------------------------|
| 44        | Research & Lab. Materials                         | 4,000,000                |                         | GOK                    | Being used for material investigation |                  |                           | CSE(D)         | Funds utilized throughout the year as need arises                                  |
| 45        | Consultancy and Design                            | 50,000,000               |                         | GOK                    | Various projects are being procured   | May, 2004        | June, 2004                | CSE(D)         | Various projects are under procurement.                                            |
| 46        | Planning & Feasibility studies                    | 5,000,000                |                         | GOK                    |                                       |                  |                           | CSE (P)        | Various in-house feasibility studies                                               |
| 47        | Traffic Survey and Investigation                  | 5,000,000                |                         | GOK                    |                                       |                  |                           | CSE (P)        | -do-                                                                               |
| 48        | Consultancy fees, Preliminary Survey and Planning | 5,000,000                |                         | GOK                    | Being used for survey activities      |                  |                           | CSE(D)         | Funds utilized throughout the year as need arises                                  |
| 49        | Kericho-Sotik                                     | 12,400,00                |                         | GOK                    | Complete                              |                  |                           | CSE(C)         | Allocation is to meet pending debt due to contractor                               |
| 50        | Demarcation of Road Reserve                       | 24,320,000               |                         | GOK                    |                                       |                  |                           | PSE(M)         | Survey of camps and demolition of structures                                       |
| 51        | Port Charges & Levies                             | 35,000,000               |                         |                        |                                       |                  |                           | PSE(M)         | Funds re-allocated to Nairobi Bypass works                                         |
| 52        | Road 2000 (STABEX)                                | 230,000,000              | 900,000,000.00          | EDF                    | Ongoing                               | 1999             | 1999                      | CSE (M)        | Phase 1 improvement of 55 km roads to complete by June 2004complete                |
| 53        | Road 2000 (SIDA)                                  | 200,000,000              | SKr 60 mill.            | SIDA/ GOK              | Ongoing                               | 2003             | Sep-03                    | CSE (M)        | Selected 17.5 km roads in Nyeri & Kirinyaga District. To complete June 2004        |
| 54        | Roads 2000                                        | 168,000,000              | DM 15 mill.             | FRG/GOK                | Not started                           |                  | Proposed Jul 2004         | CSE (M)        | Consultant for spot improvement works in two implementation regions being procured |
| 55        | District Rural Rehabilitation                     | 353,000,000              | UA 20 mill              | ADF                    | Not started                           |                  | Proposed Jul 2004         | CSE(M)         | Consultant for spot improvement works in 5 districts being procured                |

**MINISTRY OF ROADS PUBLIC WORKS AND HOUSING  
GOK/FUEL LEVY PROJECTS 2003 - 2004**

| Sub Item No. | Road Name                                   | Budgetary Allocation | Total Project Cost | Financier     | Project Status                | Procurement Date | Commencement | Action Officer | REMARKS                                                                                 |
|--------------|---------------------------------------------|----------------------|--------------------|---------------|-------------------------------|------------------|--------------|----------------|-----------------------------------------------------------------------------------------|
| 56           | Ruaka - Ndenderu - Limuru and Limuru-Tigoni | 1,000,000.00         | 639,252,994.00     | GOK/Fuel Levy | substantially complete        |                  | Jul-01       | CSE (C)        | Final accounts                                                                          |
| 57           | Raini - Kiambu & Githunguri - Ndumburi      | 7,300,000.00         | 293,699,520.00     | GOK/Fuel Levy | substantially complete        | 29-Jun-00        | 19-Oct-00    | CSE (C)        | Release 1st and 2nd retention monies                                                    |
| 58           | Rironi - Mai Mahitu                         | 900,000.00           | 85,289,347.50      | GOK/Fuel Levy | substantially complete        |                  | Mar-01       | CSE (C)        | Claims under evaluation                                                                 |
| 59           | Magumu - Njabini                            | 114,800,000.00       | 839,073,170.10     | GOK/Fuel Levy | on-going                      | 29-Jun-00        | 2-Sep-00     | CSE (C)        | Estimated output 15 mil per month x 75% to allow for rains, omit 100mil works FY 2004/5 |
| 60           | Muranga-Kangema                             | 9,300,000.00         | 372,181,998.00     | GOK/Fuel Levy | substantially complete        |                  | Oct-00       | CSE (C)        | Release 2nd half retention, final inspection due on 10/04/04                            |
| 61           | Kangema - Nyeri                             | 10,200,000.00        | 406,921,980.00     | GOK/Fuel Levy | substantially complete        |                  | Oct-00       | CSE (C)        | Release 2nd half retention, final inspection due on 10/04/04                            |
| 62           | Marua - Nyeri - Kiganjo - Marua             | 16,300,000.00        | 416,994,330.55     | GOK/Fuel Levy | substantially complete        |                  | 2-Sep-00     | CSE (C)        | Release 2nd half retention                                                              |
| 63           | Muranga - Sagana - Karatina                 | 66,800,000.00        | 486,858,820.00     |               | Ongoing                       | 3-Jan-03         | 14-Aug-03    | CSE (C)        | Ongoing                                                                                 |
| 64           | Thika - Gatanga                             | 30,000,000.00        |                    |               | Procured: no performance bond |                  |              | CSE(C)         | Award recommended for cancellation                                                      |

| Sub Item No. | Road Name                | Budgetary Allocation | Total Project Cost | Financier     | Project Status                                               | Procurement Date | Commencement    | Action Officer | REMARKS                                                   |
|--------------|--------------------------|----------------------|--------------------|---------------|--------------------------------------------------------------|------------------|-----------------|----------------|-----------------------------------------------------------|
| 65           | Nairobi - Thika          | 10,000,000           | Under Procurement  | Fuel Levy     | Prequalification, Design & Tender Documentation in Progress. | 14th May, 2004   | 15th June, 2004 | CSE(D)         | Under Procurement                                         |
| 66           | Kiambu - Ruiru - Kamiti  | 10,000,000           | Under Procurement  | Fuel Levy     | Prequalification, Design & Tender Documentation in Progress. | 14th May, 2004   | 15th June, 2004 | CSE(D)         | Procurement in Progress.                                  |
| 67           | Meru - Maua              | 69,000,000.00        | 565,515,776.00     | GOK/Fuel Levy | ongoing                                                      | May-03           | 10-Aug-03       | CSE (C)        | Estimated output 20mil per month x 75% to allow for rains |
| 68           | Thuchi River - Nkubu     | 20,000,000           | Under procurement. | Fuel Levy     | Prequalification, Design & Tender Documentation in Progress. | 14th May, 2004   | 15th June, 2004 | CSE(D)         | Under Procurement                                         |
| 69           | Masii - Kitui            | 10,000,000           | Under procurement. | Fuel Levy     | Prequalification, Design & Tender Documentation in Progress. | 14th May, 2004   | 15th June, 2004 | CSE(D)         | Under Procurement                                         |
| 70           | Machakos Turnoff - Masii | 10,000,000.00        | Under procurement  | Fuel levy     | Prequalification, Design & Tender Documentation in Progress. | 14th May, 2004   | 15th June, 2004 | CSE(D)         | Under Procurement                                         |
| 71           | Kalanga C- L/Hamaris     | 9,500,000.00         | 196,635,188.76     | GOK/Fuel Levy | Under Maintenance                                            |                  | Feb-95          | CSE (C)        | Release of 2nd half retention                             |
| 72           | Kalanga C- L/Hamaris     | 500,000.00           | 17,453,902.65      | GOK/Fuel Levy | substantially complete                                       |                  | Jan-93          | CSE (C)        | Cost overrun                                              |
| 73           | Ahero-Kisii              | 900,000.00           | 694,153,069.16     | GOK/Fuel Levy | Complete                                                     |                  | Apr-94          |                | Claims under evaluation                                   |

| Sub Item No. | Road Name                        | Budgetary Allocation | Total Project Cost | Financier     | Project Status | Procurement Date | Commencement | Action Officer | REMARKS                                                      |
|--------------|----------------------------------|----------------------|--------------------|---------------|----------------|------------------|--------------|----------------|--------------------------------------------------------------|
| 74           | Kisumu - Yala                    | 163,500,000.00       | 849,705,367.00     | GOK/Fuel Levy | on-going       | 29-Jun-00        | Nov-00       | CSE (C)        | estimated output 20mil per month x 75% to allow for rains    |
| 75           | Kisian - Bondo                   | 40,000,000.00        | 641,986,958.40     | GOK/Fuel Levy | Awarded        | 9-Oct-03         | Apr '04      | CSE (C)        | Contract documents in Treasury for counter-signature         |
| 76           | Bondo-Usenge                     | 40,000,000.00        | 647,624,460.00     | GOK/Fuel Levy | Awarded        | 23-Oct-03        | Apr '04      | CSE (C)        | Contract documents in Treasury for counter-signature         |
| 77           | Althi River-Namanga              | 17,300,000.00        | 675,709,578.80     | GOK/Fuel Levy | complete       |                  | Apr-94       | CSE (C)        | Final Accounts                                               |
| 78           | Saos - Tenges (Addendum IV & VI) | 52,300,000.00        | 246,570,449.98     | GOK/Fuel Levy | on-going       | 19-Dec-01        | Mar-02       | CSE (C)        | Returned recently by Treasury unsigned                       |
| 79           | Saos - Tenges (Addendum IV)      | 500,000.00           | 40,592,741.94      | GOK/Fuel Levy | complete       | 29-Apr-97        | 15-May-97    | CSE (C)        | Returned recently by Treasury unsigned                       |
| 80           | Sotik - Amala                    | 152,500,000.00       | 1,118,157,310.00   | GOK/Fuel Levy | on-going       | May-00           | 21-Nov-00    | CSE (C)        | Estimated output 35mil per month x 75% to allow for rains    |
| 81           | Kitalale - Endebeess             | 10,000,000.00        | 29,218,923.95      | GOK/Fuel Levy | complete       |                  | Dec-96       | CSE (C)        | final accounts (consultancy)                                 |
| 82           | Kisumu-Kakamega                  | 10,000,000.00        |                    | GOK/Fuel Levy | proposed       |                  |              | CSE (D)        | 90km rural road estimated cost 550mil for 30months           |
| 83           | Juja Road (Pangani - Outer Ring) | 140,000,000.00       | 382,364,161.00     | GOK/Fuel Levy | on-going       | 25-Sep-01        | 5-Mar-02     | CSE (C)        | estimated output at 20mil per month x 75% to allow for rains |
| 84           | Miritini - Saba Saba (A109)      | 41,000,000.00        | 293,372,466.20     | GOK/Fuel Levy | Complete       |                  |              | CSE (C)        | Cost overruns, release of retention.                         |

| Sub Item No. | Road Name                                  | Budgetary Allocation | Total Project Cost | Financier     | Project Status         | Procurement Date | Commencement | Action Officer | REMARKS                                          |
|--------------|--------------------------------------------|----------------------|--------------------|---------------|------------------------|------------------|--------------|----------------|--------------------------------------------------|
| 85           | Nyeri-Othaya Loop roads (E1681/ E550/ G58) | 171,524,000.00       | 239,620,200.00     | GOK/Fuel Levy | ongoing                |                  | Oct-03       | CSE (C)        | expected output 20mil per month                  |
| 86           | Karatina State Lodge (D451, D450)          | 72,900,000.00        | 416,752,920.00     | GOK/Fuel Levy | ongoing                |                  | Apr-03       | CSE (C)        | expected output 20mil per month                  |
| 87           | Uplands - Longonot Turn Off                | 15,000,000.00        | 340,185,690.00     | GOK/Fuel Levy | on-going               |                  | May-02       | CSE (C)        | expected output 20mil per month                  |
| 88           | Naivasha - Kirima - Ndunyu Njeru           | 15,000,000.00        | 458,894,028.00     | GOK/Fuel Levy | on-going               | 29-Jun-00        | Aug-01       | CSE (C)        | expected output 10mil per month                  |
| 89           | Muranga-Gitugi                             | 50,000,000.00        |                    | GOK/Fuel Levy | proposed               |                  |              | CSE (C)        | 22km rural road (5km bitumen), estimate 90mil    |
| 90           | Kagio-Baricho-Kerugoya/ Baricho-Kibrigwi   | 12,000,000.00        |                    | GOK/Fuel Levy | proposed               |                  |              | CSE (C)        |                                                  |
| 91           | Bachuma Gate - Maji ya Chumvi              | 4,000,000.00         | 601,850,000.00     | GOK/Fuel Levy | Substantially complete |                  | Aug-00       | CSE (C)        | release of 2nd half retention                    |
| 92           | Farm E817 - Kawiru                         | 45,000,000.00        | 217,201,546.50     | GOK/Fuel Levy | On-going               |                  | Apr-98       | CSE (C)        | Contractor on site to finish the remaining works |
| 93           | Lare - Mutuati                             | 4,300,000.00         | 74,967,818.60      | GOK/Fuel Levy | non-performing 50%     |                  | Jan-98       | CSE (C)        | complete FY 2003/4 and pay retention monies      |
| 94           | Katito-Kendu Bay (C19)                     | 1,700,000.00         |                    | GOK/Fuel Levy | proposed               |                  |              | CSE (C)        | Tenders being re-examined                        |

| Sub Item No. | Road Name                      | Budgetary Allocation | Total Project Cost | Financier     | Project Status         | Procurement Date | Commencement | Action Officer | REMARKS                                                             |
|--------------|--------------------------------|----------------------|--------------------|---------------|------------------------|------------------|--------------|----------------|---------------------------------------------------------------------|
| 95           | C55 Machege - Eldama Ravine    | 20,000,000.00        | 596,223,985.87     | GOK/Fuel Levy | on-going 95%           | 15-Jun-99        | 23-Aug-99    | CSE (C)        | complete Fy 2003/4 and pay retention monies                         |
| 96           | Chepliret - Moi University     | 14,800,000.00        | 187,256,000.00     | GOK/Fuel Levy | Complete               |                  | May-97       | CSE (C)        | release retention money                                             |
| 97           | Elementaita-Mau Narok          | 85,500,000.00        | 187,254,914.00     | GOK/Fuel Levy | nonperforming          |                  | Mar-98       | CSE (C)        | terminate                                                           |
| 98           | Kabarak Junction               | 104,800,000.00       | 21,919,468.78      | GOK/Fuel Levy | Substantially complete |                  | Feb-01       | CSE (C)        | release retention money                                             |
| 99           | Kakuma - Lokichogio            | 9,100,000.00         | 407,080,680.00     | GOK/Fuel Levy | Substantially complete |                  | Dec-96       | CSE (C)        | release retention money                                             |
| 100          | Mau Summit - Njoro - Mau Narok | 68,800,000.00        | 1,062,908,154.80   | GOK/Fuel Levy | VO terminated          |                  | Dec-96       | CSE (C)        | VO terminated, release retention                                    |
| 101          | Nabkoi-Kapsabet                | 900,000.00           | 628,000,000.00     | GOK/Fuel Levy | On-going               | 19-Aug-02        | 2-Jan-03     | CSE (C)        | expected output 25mil per month x 75% for rains, omit 128mil works  |
| 102          | Nakuru-Marigat                 | 7,200,000.00         | 480,217,975.16     | GOK/Fuel Levy | On-going               | 4-Jun-02         | Oct-02       | CSE (C)        | expected output 15mil per month x 75%, works of 60mil to be omitted |
| 103          | Sosiot - Sondu                 | 3,000,000.00         | 337,927,253.04     | GOK/Fuel Levy | Substantially complete |                  | Aug-97       | CSE (C)        | release retention money                                             |
| 104          | Timboroa - Mteitei - Songhor   | 4,900,000.00         | 802,408,929.00     | GOK/Fuel Levy | On-going               | 2-Apr-97         | 10-Jul-97    | CSE (C)        | expected output 15mil per month x 75%                               |
| 105          | Molo-Olengunone                | 2,700,000.00         |                    | GOK/Fuel Levy | proposed               |                  |              | CSE (C)        | Contractual debt                                                    |
| 106          | Mwatate-Taveta (A23)           | 400,000.00           | 143,242,277.00     | GOK/Fuel Levy | Substantially Complete |                  |              | CSE (C)        | release retention                                                   |



| Sub Item No. | Road Name                                          | Budgetary Allocation | Total Project Cost | Financier     | Project Status                   | Procurement Date | Commencement | Action Officer | REMARKS                                                                   |
|--------------|----------------------------------------------------|----------------------|--------------------|---------------|----------------------------------|------------------|--------------|----------------|---------------------------------------------------------------------------|
| 107          | Tarasa-Ngoo-Ngoroboni (E878)                       | 2,600,000.00         | 149,611,959.00     | GOK/Fuel Levy | Ongoing 90% , retention released |                  |              | CSE (C)        | release retention                                                         |
| 108          | Kavati -Bondoni (C94)                              | 14,000,000.00        | 63,912,453.20      | GOK/Fuel Levy | Substantially Complete           | 28-Jun-01        | 4-Oct-01     | CSE (C)        | Release retention                                                         |
| 109          | Kithimani-Makutano (C100)                          | 3,100,000.00         | 60,572,041.00      | GOK/Fuel Levy | Substantially Complete           |                  |              | CSE (C)        | release retention                                                         |
| 110          | Kima - Maseno                                      | 81,700,000.00        | 18,741,745.00      | GOK/Fuel Levy | Re-Measured                      |                  |              | CSE (C)        | Works being re-measured                                                   |
| 111          | Rodi Kopany-Rangwe C18                             | 87,300,000.00        | 73,296,685.00      | GOK/Fuel Levy | Suspended                        |                  |              | CSE (C)        | final accounts before termination                                         |
| 112          | Kapsowar - Maina - Chesoi - Chesongoch (D340) Road | 400,000.00           | 65,603,640.00      | GOK/Fuel Levy | Terminated                       |                  |              | CSE (C)        | release of retention                                                      |
| 113          | KCC-Ndanai-Gorgor C15/C14                          | 92,000,000.00        | 77,691,561.50      | GOK/Fuel Levy | Substantially Complete           |                  |              | CSE (C)        | release of retention                                                      |
| 114          | Kipsomba - Kimilili Farm (RAR35)/Maji Muzuri(C50)  | 95,300,000.00        | 156,383,615.00     | GOK/Fuel Levy | Substantially Complete           | 7 Mar 2001       |              | CSE (C)        | Final inspection done on 18/03/04<br>Release retention and clear payments |
| 115          | Londiani - Fortenan C34                            | 6,000,000.00         | 170,659,860.00     | GOK/Fuel Levy | on-going                         | 24 Apr 2002      |              | CSE (C)        |                                                                           |
| 116          | Londiani - Fortenan C35                            | 11,100,000.00        | 97,100,000.00      | GOK/Fuel Levy | terminated                       |                  |              | CSE (C)        | potential termination costs                                               |

GOK - Fuel Levy

| Sub Item No. | Road Name                                       | Budgetary Allocation            | Total Project Cost | Financier     | Project Status                                         | Procurement Date          | Commencement | Action Officer | REMARKS                                                            |
|--------------|-------------------------------------------------|---------------------------------|--------------------|---------------|--------------------------------------------------------|---------------------------|--------------|----------------|--------------------------------------------------------------------|
| 117          | Marigat - Muchongoi C51                         | 1,400,000.00                    | 277,287,671.10     | GOK/Fuel Levy | on-going 50%                                           | 30 Jun 2000               |              | CSE (C)        |                                                                    |
| 118          | Nanyuki - Doidoi (E760)                         | 100,000,000.00                  | 373,810,551.54     | GOK/Fuel Levy | on-going                                               | 13 Nov 2002               |              | CSE (C)        | expected output 15mil per month x 75% allowance for rains          |
| 119          | Buyofu - Mungatsi - Kimaeti - C32/D258          | 10,000,000.00                   | 166,400,028.00     | GOK/Fuel Levy | On-going                                               | 13 Oct 1998               |              | CSE (C)        | release retention                                                  |
| 120          | Busia - Malaba(C43) Structures                  | 10,000,000.00                   | 23,679,627.00      | GOK/Fuel Levy | On-going                                               | 6 Dec 1998                |              | CSE (C)        |                                                                    |
| 121          | Chwele-Sirisia-Lwakhakha C42/D277               | 10,000,000.00                   | 97,000,000.00      | GOK/Fuel Levy | Abandoned                                              | Abandoned                 |              | CSE (C)        | terminate and release retention                                    |
| 122          | Maili Tatu-Ndalu (Tiwani - West Pokot Boundary) | 10,000,000.00                   | 1,022,714,365.00   | GOK/Fuel Levy | Substantially complete                                 | 14 <sup>th</sup> Feb 2002 |              | CSE (C)        | Inspection done on 18/03/04, release retention                     |
| 123          | Migori-Muhuru Bay - (C13)                       | 4,200,000.00                    | -                  | GOK/Fuel Levy | Awarded                                                | 27-Nov-03                 | Apr '04      | CSE (C)        | Contract documents in Treasury for counter-signature               |
| 124          | Kakamega-Ingotse-Nambacha-Shihanda (C41/D266)   | 5,000,000.00                    |                    | GOK/Fuel Levy | proposed                                               | Proposed                  |              | CSE (C)        |                                                                    |
| 125          | Musanda-Butere-Sigomere                         | 10m                             | Under procurement. | Fuel Levy     | Prequalification and Tender Documentation in Progress. | 9th May, 2004             | July, 2004   | CSE(D)         | Under procurement                                                  |
| 126          | Ebuyangu - Ekeru                                | Within the Design Branch Budget | *                  | Fuel Levy     | Request for proposal stage.                            | May, 2004                 | June, 2004   | CSE(D)         | TOR to be issued by 1st March 2004 to the prequalified Consultants |

| Sub Item No. | Road Name                                                  | Budgetary Allocation | Total Project Cost | Financier     | Project Status                       | Procurement Date | Commencement | Action Officer | REMARKS                                               |
|--------------|------------------------------------------------------------|----------------------|--------------------|---------------|--------------------------------------|------------------|--------------|----------------|-------------------------------------------------------|
| 127          | Kenya University Foot Bridge On Road A2 Contract No.Rd.085 | 5,000,000.00         | 62,601,822.86      | GOK           | Substantially completed              | 27-Jul-01        | 27-Apr-01    | CSE (B)        | Release Of Retention Money Outstanding                |
| 128          | Valley Road Foot Bridge Off Road A104 Contract No.Rd.0403  | 5,000,000.00         | 19,297,311.54      | GOK           | Footings, piers, abutments completed | 26-Aug-03        | 16-Oct-02    | CSE (B)        | Cert. No1 For Kshs 1.9million Submitted Jan 2004      |
| 127          | Kamandura Bridge On Road A104 Contract No.Rd.0402          |                      | 8,641,560.00       | GOK           | 35% of repair works done             | 14-Dec-02        | 2-Oct-02     | CSE (B)        | Contractor not on site. Awaiting payment              |
| 130          | Habaswein Bridge Road B9 Garissa District                  | 5,000,000.00         | 20,000,000.00      | GOK           | Under procurement                    |                  |              | CSE (B)        | Design Ongoing For Completion Works On Superstructure |
| 131          | Irati Bridge Road C70 Maragwa District                     | 2,000,000.00         | 8,000,000.00       | GOK           | Under procurement                    |                  |              | CSE (B)        | Design ongoing. To procure in district                |
| 132          | Mirini Bridge                                              | 5,000,000.00         |                    | GOK/Fuel Levy | proposed                             |                  |              | CSE (B)        |                                                       |
| 133          | Ngong - Kiserian                                           | 5,000,000.00         | 217,265,687.52     | GOK/Fuel Levy | On-going 80%                         | Apr-00           | 4-Oct-01     | CSE (C)        | Substantial inspection scheduled for April '04        |
| 134          | Miritini Section & Nyali Brige                             | 5,000,000.00         | 64,855,584.00      | GOK/Fuel Levy | Complete                             |                  |              | CSE (B)        | final accounts                                        |
| 135          | Bura-Wundanyi-Mwakinungu-Sheleba (D538)                    | 10,000,000.00        | 235,815,450.00     | GOK/Fuel Levy | ongoing                              | 31 Nov 2002      | Dec-02       | CSE (C)        | Expected output 15mil per month x 75% allow for rains |

| Sub Item No. | Road Name                               | Budgetary Allocation | Total Project Cost | Financier     | Project Status                                       | Procurement Date | Commencement    | Action Officer | REMARKS                                               |
|--------------|-----------------------------------------|----------------------|--------------------|---------------|------------------------------------------------------|------------------|-----------------|----------------|-------------------------------------------------------|
| 136          | Ganze-Mariakani - Bamba (D549)          | 10,000,000.00        | 205,094,077.00     | GOK/Fuel Levy | ongoing                                              | 17-May-01        | 28-Aug-01       | CSE (C)        | To be completed within 2004-05 year.                  |
| 137          | Kanyakini-Mitunguu (E778)               | 5,000,000.00         | 183,533,459.00     | GOK/Fuel Levy | ongoing                                              | 19-Aug-02        | 2-Nov-02        | CSE (C)        | To be completed within 2004-05 year.                  |
| 138          | Mbakaini-Kalawa-Nunga Makalu            | 8,000,000.00         |                    | GOK/Fuel Levy | final accounts                                       |                  | Oct-02          | CSE (C)        | final accounts                                        |
| 139          | Kibugua-Itururu (D471)                  | 6,000,000.00         | 44,490,600.00      | GOK/Fuel Levy | substantially complete                               |                  |                 | CSE (C)        | release retention and clear outstanding payments      |
| 140          | Meru - Githongo - Marimba Project       | 5,000,000.00         |                    | GOK/Fuel Levy | proposed                                             |                  |                 | CSE (C)        | estimated cost 160mil                                 |
| 141          | Mathatani-Kaseve-Koi                    | 5,000,000            | Under procurement. | Fuel Levy     | Prequalification & Tender Documentation in Progress. | 18th May, 2004   | 15th June, 2004 | CSE(D)         | Procurement in Progress.                              |
| 142          | Koma - Mitaaboni - Kathiani             | 5,000,000.00         | Under procurement  | GOK/Fuel Levy | Prequalification & Tender Documentation in progress  | 18th May 2004    | 15th June 2004  | CSE (D)        | Procurement in progress                               |
| 143          | Mandera-Fino-Elwak (E847)               | 81,500,000.00        | 109,710,224.00     | GOK/Fuel Levy | substantially complete                               |                  |                 | CSE (C)        | Work progressing on VO                                |
| 144          | Kormur-Barweas, Kinyach-Arror-Cheptukoi | 5,601,000.00         | 450,384,855.00     | GOK/Fuel Levy | ongoing                                              | 20-May-02        | 13-Aug-02       | CSE (C)        | Expected output 15mil per month x 75% allow for rains |
| 145          | Chesoi - Maron - Chesegon (E352) Roads  | 1,900,000.00         | 200,000,000.00     | GOK/Fuel Levy | ongoing                                              |                  |                 | CSE (C)        | Expected output 15mil per month x 75% allow for rains |
| 146          | Olokwe-Waseges-Muchongoi                | 60,000,000.00        | 230,671,384.00     | GOK/Fuel Levy | ongoing 20%                                          |                  |                 | CSE (C)        |                                                       |

| Sub Item No. | Road Name                                   | Budgetary Allocation | Total Project Cost | Financier     | Project Status                | Procurement Date | Commencement | Action Officer | REMARKS                                                                                 |
|--------------|---------------------------------------------|----------------------|--------------------|---------------|-------------------------------|------------------|--------------|----------------|-----------------------------------------------------------------------------------------|
| 147          | Sururu -Likia -Pombo-olenguruone (Nakuru 1) | 5,000,000.00         | 285,852,243.00     | GOK/Fuel Levy | substantially complete        |                  |              | CSE (C)        | Final inspection done, final measurements awaiting addendum                             |
| 148          | Sururu -Likia -Pombo-olenguruone (Nakuru 2) | 5,000,000.00         | 285,852,243.00     | GOK/Fuel Levy | substantially complete        |                  |              | CSE (C)        |                                                                                         |
| 149          | Olenguruone - Kiptagich (D319)              | 21,700,000.00        | 695,858,449.00     | GOK/Fuel Levy | ongoing,                      |                  |              | CSE (C)        | Expected output 15mil per month x 75% allow for rains. VO to omit works being processed |
| 150          | Kaptagat-Kaptarakwa-L.Boinet                | 71,100,000.00        | 270,268,218.00     | GOK/Fuel Levy | complete                      |                  |              | CSE (C)        | Release retention                                                                       |
| 151          | Hajejes Drift - Timboroa D325               | 52,500,000.00        | 344,994,525.00     | GOK/Fuel Levy | substantially complete        |                  |              | CSE (C)        | scaled down, release retention                                                          |
| 152          | Chebole - Makimeny - Siongiroi D234         | 55,000,000.00        | 39,926,870.00      | GOK/Fuel Levy | complete                      |                  |              | CSE (C)        | Final accounts                                                                          |
| 153          | Kabimoi-Solian E1743                        | 25,000,000.00        | 74,739,413.00      | GOK/Fuel Levy | complete-release of retention |                  |              | CSE (C)        | Release retention                                                                       |
| 154          | Rumuruti - Nanyuki (D466/C76)               | 84,000,000.00        | 143,858,414.00     | GOK/Fuel Levy | substantially complete        |                  |              | CSE (C)        | Release retention                                                                       |

| Sub Item No. | Road Name                      | Budgetary Allocation | Total Project Cost | Financier     | Project Status                                       | Procurement Date | Commencement | Action Officer | REMARKS                                                        |
|--------------|--------------------------------|----------------------|--------------------|---------------|------------------------------------------------------|------------------|--------------|----------------|----------------------------------------------------------------|
| 155          | Namwele-Kaptama (D275)         | 82,199,000.00        | 135,468,989.00     | GOK/Fuel Levy | 95% complete                                         |                  |              | CSE (C)        | Release retention. VO for KShs 33m not approved                |
| 156          | Kiptagich-Silibwet (D319)(DMK) | 11,500,000.00        | 49,000,000.00      | GOK/Fuel Levy | 80% complete                                         | 25-Apr-96        | 6-Jun-96     | CSE (C)        | Final accounts. VO for KShs 28m not approved-To be terminated. |
| 157          | Oria - Pala - Magina           | 5,000,000            | Under procurement. | Fuel Levy     | Prequalification & Tender Documentation in Progress. | May, 2004        | June, 2004   | CSE(D)         | Procurement in Progress.                                       |
| 158          | Awasi - Katito                 | 5,000,000.00         | 170,000,000.00     | GOK/Fuel Levy | Proposed                                             |                  |              | CSE (C)        | Under procurement                                              |
| 159          | Bungoma-Bokoli-Kimilili        | 5,000,000.00         |                    | GOK/Fuel Levy | Documentation                                        |                  |              | CSE (C)        | proposed                                                       |
| 160          | Illasit - Okiloriji - Njukini  | 5m                   | Under procurement. | Fuel Levy     | Prequalification & Tender Documentation in Progress. | May, 2004        | June, 2004   | CSE(D)         | Procurement in Progress.                                       |
| 161          | Njiri- Makomboki               | 4.1 m                | Under procurement. | GOK/Fuel Levy | Documentation in Progress                            |                  |              | CSE (D)        |                                                                |

| Sub Item No. | Road Name                       | Budgetary Allocation | Total Project Cost | Financier | Project Status                                       | Procurement Date | Commencement    | Action Officer | REMARKS                  |
|--------------|---------------------------------|----------------------|--------------------|-----------|------------------------------------------------------|------------------|-----------------|----------------|--------------------------|
| 162          | Kainuthi - Othaya-Mumbuini      | 5m                   | Under procurement. | Fuel Levy | Prequalification & Tender Documentation in Progress. | 18th May, 2004   | 15th June, 2004 | CSE(D)         | Procurement in Progress. |
| 163          | Mukurweini - Nyakahura          | 5m                   | Under procurement. | Fuel Levy | Prequalification & Tender Documentation in Progress. | 18th May, 2004   | 15th June, 2004 | CSE(D)         | Procurement in Progress. |
| 164          | Mareira - Kariua                | 5m                   | Under procurement. | Fuel Levy | Procurement of a Consultancy services underway.      | 18th May, 2004   | 15th June, 2004 | CSE(D)         | Procurement in Progress. |
| 165          | Nanyuki - Matanya-Naro Moro     | 5m                   |                    | Fuel Levy | Documentation in Progress                            |                  |                 | CSE (D)        |                          |
| 166          | Lamuria - Ngobit - Wiyumiririe  | 5m                   |                    | Fuel Levy | Documentation in Progress                            | May 2004         | June 2004       | CSE (D)        |                          |
| 167          | Malii Sita - Ngenia             | 5m                   |                    | Fuel Levy |                                                      |                  |                 |                |                          |
| 168          | Kiburu - Kiangangae             | 5m                   | Under procurement. | Fuel Levy | Prequalification & Tender Documentation in Progress. | 18th May, 2004   | 15th June, 2004 | CSE(D)         | Procurement in Progress. |
| 169          | Kahaini - Mukarara              | 5m                   | Under procurement. | Fuel Levy | Prequalification & Tender Documentation in Progress. | 18th May, 2004   | 15th June, 2004 | CSE(D)         | Procurement in Progress. |
| 170          | Muiga-Endarasha-Watuka-Nairutia | 5m                   |                    | Fuel Levy | Documentation in Progress                            |                  |                 | CSE(D)         |                          |
| 171          | Bondo - Nango - Lihunda         | 5m                   | Under procurement. | Fuel Levy | Prequalification & Tender Documentation in Progress. | 18th May, 2004   | 15th June 2004  | CSE(D)         | Procurement in Progress. |
| 172          | Kombewa - Maseno                | 5m                   | Under procurement. | Fuel Levy | Documentation in Progress.                           |                  |                 | CSE(B)         | Proposed                 |

| Sub Item No. | Road Name                                                  | Budgetary Allocation | Total Project Cost | Financier | Project Status           | Procurement Date | Commencement             | Action Officer | REMARKS                                                                                                 |
|--------------|------------------------------------------------------------|----------------------|--------------------|-----------|--------------------------|------------------|--------------------------|----------------|---------------------------------------------------------------------------------------------------------|
| 173          | Masalani Suspension Bridge, Road E874 Contract Rd.350      | 5,000,000.00         | 556,198,947.40     | GOK       | Superstructure works     | 9-Jun-01         | 7-Jul-01                 | CSE (B)        | Extension of Time By 12 Months Approved. Change of Superstructure Approved.                             |
| 174          | Tiva Bridge On Road D511 Kitui District Contract No.Kii/18 | 5,000,000.00         | 9,345,000.00       | GOK       | Substantially completed  | Dec-02           | 14-Oct-02                | CSE (B)        | Work Started Before Formal Contract. Formalities Have Been Finalized For The Contract To Be Formalized. |
| 175          | Mwitasyano Bridge on D511                                  | 5,000,000.00         | 40,000,000.00      | GOK       | Abutments/piers complete | 1997/98          |                          | CSE (B)        | Designs and Prequalification documents completed                                                        |
| 176          | Ruamuthambi River Bridge Road D454 Kirinyaga District      | 4,500,000.00         | 18,000,000.00      | GOK       | Not started              |                  |                          | CSE (B)        | Design ongoing. To be procured in district                                                              |
| 177          | Rutune Bridge Road D429 Muranga District                   | 9,000,000.00         | 15,000,000.00      | GOK       | Not started              |                  |                          | CSE (B)        | Employer's Authority given for procurement. To be procured in district                                  |
| 178          | Mirini Bridge Road E1686 Nyeri                             | 10,000,000.00        | 15,000,000.00      | GOK       | Not started              |                  |                          | CSE (B)        | Design changes underway                                                                                 |
| 179          | Ndati Culverts On Road E 131 Bondo District                | 2,500,000.00         | 15,000,000.00      | GOK       | Ongoing in-house         |                  | Started in-house in 2000 | CSE (B)        | 2No structures complete. Completion works on approaches to be contracted                                |
| 180          | Sigiri Bridge Road Rar 14 Busia District                   | 1,000,000.00         | 90,000,000.00      | GOK       | Not started              |                  |                          | CSE (B)        | Design adopted from Luambwa Bridge. Prequalification of contractors completed                           |



| Sub Item No.                                                           | Road Name                                                   | Budgetary Allocation | Total Project Cost | Financier | Project Status         | Procurement Date                            | Commencement | Action Officer | REMARKS                                                                                                                         |
|------------------------------------------------------------------------|-------------------------------------------------------------|----------------------|--------------------|-----------|------------------------|---------------------------------------------|--------------|----------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>BRIDGING PROJECTS UNDERTAKEN BY FORCE ACCOUNT (ITEMS 15 AND 19)</b> |                                                             |                      |                    |           |                        |                                             |              |                |                                                                                                                                 |
| <b>CENTRAL PROVINCE</b>                                                |                                                             |                      |                    |           |                        |                                             |              |                |                                                                                                                                 |
| 181                                                                    | Provincial Bridge Unit                                      | 1,500,000.00         |                    | GOK       | Funds not yet received | Running of Bridge Unit throughout the year. |              | PWO (Central)  | Purchase of tires for vehicles, Batteries, POL, Stationeries and Running of Bridge Unit                                         |
| 182                                                                    | Globe Cinema Round about bridge on Muranga Road.            | 2,000,000.00         |                    | GOK       |                        | Mar-04                                      | May-04       | PWO-NBI        | Repair of the culverts                                                                                                          |
| 183                                                                    | Repair of guardrails near Utalii, Ruaraka, Blue post Thika. | 3,150,000.00         |                    | GOK       | Funds awaited          | Mar-04                                      | Jun-04       | CSE(B)         | Reinstatement of guardrails on Bridges and approaches · Protection works on approaches. · Replacement of knocked down end posts |
| 184                                                                    | Honi Bridge                                                 | 600,000.00           |                    | GOK       | Funds to be issued     | Mar-04                                      | May-04       | CSE(B)         | Protection work on the approaches and reinstatement of guardrails                                                               |
| 185                                                                    | Mbagathi Road over Railway Bridge                           | 500,000.00           |                    | GOK       | Funds to be issued     | Mar-04                                      | May-04       | CSE(B)         | Reinstatement of guardrails                                                                                                     |
| 186                                                                    | Nyairoko Bridge                                             | 200,000.00           |                    | GOK       | Funds to be issued     | Mar-04                                      | Apr-04       | CSE(B)         | Installation of guardrails end posts and repair of kerbs                                                                        |
| 187                                                                    | Kiriundu Bridge                                             | 100,000.00           |                    | GOK       | Funds to be issued     | Mar-04                                      | Apr-04       | CSE(B)         | Protection works with gabions down stream on both approaches                                                                    |
| 188                                                                    | Thiba River Bridge                                          | 200,000.00           |                    | GOK       | Funds to be issued     | Mar-04                                      | Feb-04       | CSE(B)         | Protection works on approaches                                                                                                  |
| 189                                                                    | Rwamuthambi Bridge                                          | 200,000.00           |                    | GOK       | Funds to be issued     |                                             |              | CSE(B)         | Protection works and repair of guardrails                                                                                       |
| 190                                                                    | Sagana River Bridge                                         | 300,000.00           |                    | GOK       | Funds to be issued     | Mar-04                                      | Feb-04       | CSE(B)         | Protection works                                                                                                                |
| 191                                                                    | Uruku Bridge                                                | 2,500,000.00         |                    | GOK       | Funds to be received   | Mar-04                                      | Jun-04       | CSE(B)         | Construction of a new structure                                                                                                 |

| Sub Item No. | Road Name                                 | Budgetary Allocation | Total Project Cost | Financier | Project Status                                | Procurement Date                            | Commencement | Action Officer | REMARKS                                                                                               |
|--------------|-------------------------------------------|----------------------|--------------------|-----------|-----------------------------------------------|---------------------------------------------|--------------|----------------|-------------------------------------------------------------------------------------------------------|
| 192          | Mutara Bridge                             | 4,500,000.00         |                    | GOK       | Funds to be issued                            | Apr-04                                      | Jun-04       | CSE(B)         | Construction of a new structure                                                                       |
| 193          | Mathioya River Bridge                     | 350,000.00           |                    | GOK       | Funds to be issued                            | Mar-04                                      | Feb-04       | CSE(B)         | Protection work down stream both approaches with gabions                                              |
| 194          | Ndulia bridge                             | 2,000,000.00         |                    | GOK       | opened to traffic                             | Mar-04                                      | Mar-04       | CSE(B)         | Completed. Outstanding payments being settled.                                                        |
| 195          | Gathwariga bridge                         | 2,500,000.00         |                    | GOK       | Funds to be issued                            | Mar-04                                      | Jun-04       | CSE(B)         | Reconstruction of the Bridge                                                                          |
|              | <b>COAST PROVINCE</b>                     |                      |                    |           |                                               |                                             |              |                |                                                                                                       |
| 196          | Coast provincial bridge Unit              | 1,500,000.00         |                    | GOK       | Funds received                                | Running of Bridge Unit throughout the year. |              | PWO (Coast)    | Purchase of tires for vehicles, Batteries, POL, Stationeries and Running of Bridge Unit               |
| 197          | Mwangeli Culverts                         | 500,000.00           |                    | GOK       | Funds received                                | Mar-04                                      | Apr-04       | CSE(B)         | Construction of a new line of culverts                                                                |
| 198          | Voi Bridge                                | 1,000,000.00         |                    | GOK       | Waiting for funds.                            | Apr-04                                      | May-04       | CSE(B)         | Scour protection works.                                                                               |
| 199          | Perani Box culverts                       | 1,700,000.00         |                    | GOK       | Completed                                     | Mar-04                                      | Feb-04       | CSE(B)         | Redding the backfilling, protection works, river training & reinstating pavement to bitumen standards |
| 200          | Nyali, Mtwapa, Kilifi & New Sabaki Bridge | 2,500,000.00         |                    | GOK       | Funds received                                | Mar-04                                      | Jun-04       | CSE(B)         | General maintenance on all the bridges, Nyali bridge street lighting                                  |
| 201          | Mbogolo Bridge                            | 300,000.00           |                    | GOK       | Complete. Outstanding payments being cleared. | Mar-04                                      | Apr-04       | CSE(B)         | Strengthening of the substructure and protection works                                                |
| 202          | Marere Bridge                             | 900,000.00           |                    | GOK       | Completed                                     | Apr-04                                      | May-04       | CSE(B)         |                                                                                                       |
| 203          | Jaribuni Drift                            | 4,000,000.00         |                    | GOK       | Waiting for funds.                            | Mar-04                                      | Jun-04       | CSE(B)         | Construction of an 80m long double lane drift with 1200mm diam. Vents.                                |

| Sub Item No. | Road Name                                  | Budgetary Allocation | Total Project Cost | Financier | Project Status                               | Procurement Date                            | Commencement | Action Officer | REMARKS                                                                                                  |
|--------------|--------------------------------------------|----------------------|--------------------|-----------|----------------------------------------------|---------------------------------------------|--------------|----------------|----------------------------------------------------------------------------------------------------------|
| 204          | Bangoni Bridge                             | 2,400,000.00         |                    | GOK       | Complete. Outstanding payments being cleared | Mar-04                                      | Mar-04       | CSE(B)         | Construction of a new bridge including backfilling completed. Payment of outstanding payments.           |
|              | <b>EASTERN PROVINCE</b>                    |                      |                    |           |                                              |                                             |              |                |                                                                                                          |
| 205          | 2 No. Eastern Bridge Units                 | 1,500,000.00         |                    | GOK       | Funds issued                                 | Running of Bridge Unit throughout the year. |              | PWO (Eastern)  | Purchase of tires for vehicles, Batteries, POL, Stationeries and Running of Bridge Unit                  |
| 206          | Itimbogo/Nthangaiya Box Culvert            | 700,000.00           |                    | GOK       | Complete. Road opened to traffic.            | completed                                   | completed    | CSE(B)         | - Construction of 5m x 2.5m reinforced Concrete Box culvert. Completed. Payment of outstanding payments. |
| 207          | Munyari Box Culvert                        | 100,000.00           |                    | GOK       | Funds to be issued.                          | Mar-04                                      | Apr-04       | CSE(B)         | - Protection works                                                                                       |
| 208          | Muuna Drift                                | 4,000,000.00         |                    | GOK       | Funds issued Jan-04                          | Mar-04                                      | Jun-04       | CSE(B)         | Construction of drift                                                                                    |
| 209          | Nzetu Drift                                | 4,000,000.00         |                    | GOK       | funds issued Jan-04                          | Mar-04                                      | Jun-04       | CSE(B)         | Construction of drift                                                                                    |
| 210          | Iraru Bridge                               | 4,500,000.00         |                    | GOK       | Works on going                               | Mar-04                                      | Jun-04       | CSE(B)         | Construction of remaining 2No. Abutment lifts.                                                           |
| 211          | Misakwani Bridge                           | 3,000,000.00         |                    | GOK       | Funds to be issued.                          | Mar-04                                      | May-04       | CSE(B)         | Completion of the on-going construction.                                                                 |
| 212          | Thura bridge                               | 1,500,000.00         |                    | GOK       | Funds to be issued.                          | Mar-04                                      | Jun-04       | CSE(B)         | Construction of bridge.                                                                                  |
| 213          | 3 No. Drifts, (Kalalani, Ndiliu, Katulani) | 1,000,000.00         |                    | GOK       | Funds issued                                 | Mar-04                                      | Jun-04       | CSE(B)         | Completion of the on-going construction.                                                                 |
| 214          | LagaBalal Drift                            | 1,000,000.00         |                    | GOK       | Funds to be issued.                          | Mar-04                                      | Jun-04       | CSE(B)         | Construction of a drift.                                                                                 |
| 215          | 3 No. Drifts (Kalivu, Kyongwe and Muani)   | 500,000.00           |                    | GOK       | Funds to be issued.                          |                                             |              | CSE(B)         | Construction of 3No. Drifts                                                                              |
| 216          | Thua Bridge                                | 100,000.00           |                    | GOK       | Funds to be issued.                          | Mar-04                                      | Apr-04       | CSE(B)         | Routine Maintenance                                                                                      |

| Sub Item No. | Road Name                  | Budgetary Allocation | Total Project Cost | Financier | Project Status                                | Procurement Date                            | Commencement | Action Officer  | REMARKS                                                                                  |
|--------------|----------------------------|----------------------|--------------------|-----------|-----------------------------------------------|---------------------------------------------|--------------|-----------------|------------------------------------------------------------------------------------------|
| 217          | Kathaana Bridge            | 500,000.00           |                    | GOK       | Funds to be issued.                           | Mar-04                                      | Apr-04       | CSE(B)          | Backfilling and protection works                                                         |
| 218          | Kaiti Drift                | 500,000.00           |                    | GOK       | Funds issued                                  |                                             |              | CSE(B)          | Construction of a Buried Drift                                                           |
| 219          | Kavaani Bridge             | 300,000.00           |                    | GOK       | Backfilling completed . Payment being settled | completed                                   | completed    | CSE(B)          | Backfilling and protection works                                                         |
| 220          | Kyeni Bridge               | 1,500,000.00         |                    | GOK       | Funds issued                                  | Mar-04                                      | May-04       | CSE(B)          | Construction Works                                                                       |
| 221          | Kathiani bridge            | 4,300,000.00         |                    | GOK       | Funds to be issued.                           | Mar-04                                      | May-04       | CSE(B)          | Construction Works                                                                       |
| 222          | Yondoni Bridge             | 1,000,000.00         |                    | GOK       | Funds issued                                  | Mar-04                                      | Apr-04       | CSE(B)          | Construction of center pier and super- structure                                         |
|              | <b>N/ EASTERN PROVINCE</b> |                      |                    |           |                                               |                                             |              |                 |                                                                                          |
| 223          | North Eastern Bridge Unit  | 1,500,000.00         |                    | GOK       | Funds to be issued.                           | Running of Bridge Unit throughout the year. |              | PWO (N/Eastern) | Purchase of tires for vehicles , Batteries, POL, Stationeries and Running of Bridge Unit |
| 224          | Bura Bridge                | 1,000,000.00         |                    | GOK       | Funds to be issued.                           | Mar-04                                      | May-04       | CSE(B)          | Scour protection works and reinstatement of the road approaches to the bridge.           |
|              | <b>NYANZA PROVINCE</b>     |                      |                    |           |                                               |                                             |              |                 |                                                                                          |
| 225          | Nyanza Bridge Unit         | 1,500,000.00         |                    | GOK       | Funds issued.                                 | Running of Bridge Unit throughout the year. |              | PWO (Nyanza)    | Purchase of tires for vehicles , Batteries, POL, Stationeries and Running of Bridge Unit |
| 226          | Daraja Mbili               | 3,000,000.00         |                    | GOK       | Funds not yet received                        | Mar-04                                      | Jun-04       | CSE(B)          | Construction of box culvert.                                                             |
| 227          | Nyarogo Bridge             | 2,000,000.00         |                    | GOK       | Waiting for funds                             | Mar-04                                      | Apr-04       | CSE(B)          | Protection works                                                                         |
| 228          | Wathogito Bridge           | 2,000,000.00         |                    | GOK       | Waiting for funds                             | Mar-04                                      | Apr-04       | CSE(B)          | Protection works                                                                         |

| Sub Item No. | Road Name         | Budgetary Allocation | Total Project Cost | Financier | Project Status                              | Procurement Date | Commencement | Action Officer | REMARKS                                                                                                |
|--------------|-------------------|----------------------|--------------------|-----------|---------------------------------------------|------------------|--------------|----------------|--------------------------------------------------------------------------------------------------------|
| 229          | Agido (Awachi)    | 1,000,000.00         |                    | GOK       | Funds received<br>Procurement in progress.  | Mar-04           | Apr-04       | CSE(B)         | Construction of new box culvert.                                                                       |
| 230          | Nyado bridge      | 2,000,000.00         |                    | GOK       | Waiting for funds                           | Mar-04           | May-04       | CSE(B)         | Protection works                                                                                       |
| 231          | Ogembo Bridge     | 1,000,000.00         |                    | GOK       | Funds received                              | Mar-04           | Apr-04       | PWO            | on-gong                                                                                                |
| 232          | Ndati Culverts    | 15,000,000.00        |                    | GOK       | Waiting for funds                           | Mar-04           | Jun-04       | CSE(B)         | Culvert works and raising 600m of road by 2m                                                           |
| 233          | Chepsweta         | 1,000,000.00         |                    | GOK       | Protection works ongoing.                   | Mar-04           | Apr-04       | CSE(B)         | on-going protection works                                                                              |
| 234          | Nzoia Bridge      | 1,500,000.00         |                    | GOK       | funds received ,<br>procurement in progress |                  |              | CSE(B)         | provision of guardrails and protection works                                                           |
| 235          | Unga (Otigo)      | 2,000,000.00         |                    | GOK       | funds received.<br>Work on progress.        | Mar-04           | May-04       | CSE(B)         | on going substructure works.                                                                           |
| 236          | Oyombe Culverts   | 1,000,000.00         |                    | GOK       | Waiting for funds                           | Mar-04           | May-04       | CSE(B)         | on going placing of culverts and raising the road by 2m.                                               |
| 237          | Ndati Culverts    | 5,920,000.00         |                    | GOK       | Waiting for funds                           | Mar-04           | Jun-04       | CSE(B)         | The project involves provision of a series of 1200mm pipe culverts and raising the road. Funds waited. |
| 238          | Daraja Mbili      | 1,300,000.00         |                    | GOK       | Waiting for funds                           | Mar-04           | Apr-04       | CSE(B)         | Structure being constructed by Kisii Training College (KTC)                                            |
| 239          | Alara Box Culvert | 5,000,000.00         |                    | GOK       | Waiting for funds                           | Mar-04           | Jun-04       | CSE(B)         | Construction of new box culvert.                                                                       |
| 240          | Mijin Bridge      | 5,000,000.00         |                    | GOK       | Waiting for funds                           | Mar-04           | Jun-04       | CSE(B)         | Construction of new bridge.                                                                            |
| 241          | Awachi-Kibuoni    | 1,000,000.00         |                    | GOK       | Funds received,<br>procurement in progress  | Mar-04           | Apr-04       | CSE(B)         | Materials bought in the year 2001/200. 2piers are done 2m high. Excavation for the abutment done.      |

| Sub Item No. | Road Name                     | Budgetary Allocation | Total Project Cost | Financier | Project Status                                       | Procurement Date                            | Commencement | Action Officer    | REMARKS                                                                                 |
|--------------|-------------------------------|----------------------|--------------------|-----------|------------------------------------------------------|---------------------------------------------|--------------|-------------------|-----------------------------------------------------------------------------------------|
|              | <b>RIFT VALLEY PROVINCE</b>   |                      |                    |           |                                                      |                                             |              |                   |                                                                                         |
| 242          | Rift Valley 2 Bridge Units    | 1,500,000.00         |                    | GOK       | Funds issued.                                        | Running of Bridge Unit throughout the year. |              | PWO (Rift Valley) | Purchase of tires for vehicles, Batteries, POL, Stationeries and Running of Bridge Unit |
| 243          | Lokichar Drift                | 1,000,000.00         |                    | GOK       |                                                      | Mar-04                                      | May-04       | CSE(B)            | completion of on going concrete drift project                                           |
| 244          | Endao Bridge                  | 2,000,000.00         |                    | GOK       | Funds received                                       | Mar-04                                      | May-04       | CSE(B)            | Construction of drift at a new washout                                                  |
| 245          | Nginyang Bridge               | 2,500,000.00         |                    | GOK       | Bridge Structure completed. Backfilling outstanding. | Mar-04                                      | May-04       | CSE(B)            | Completion of the Deck-slab                                                             |
| 246          | Chebunyo Culvert (Sigororbei) | 1,000,000.00         |                    | GOK       | Box culvert completed. Backfill outstanding.         | Mar-04                                      | Apr-04       | CSE(B)            | construction and backfill of the box                                                    |
| 247          | Olekasasi Bridge              | 300,000.00           |                    | GOK       | Bridge completed.                                    | completed                                   | completed    | CSE(B)            | Backfilling of culverts by contract.                                                    |
| 248          | Langwenda Bridge              | 1,000,000.00         |                    | GOK       | Backfilling contracted by DWO                        | Mar-04                                      | Apr-04       | CSE(B)            | Backfilling of culverts by contract.                                                    |
| 249          | Molo Sirwe Bridges            | 2,000,000.00         |                    | GOK       |                                                      | Mar-04                                      | Feb-04       | CSE(B)            | Construction of the bridge                                                              |
| 250          | Serwat Bridge                 | 500,000.00           |                    | GOK       | Funds issued.                                        | Mar-04                                      | Apr-04       | CSE(B)            | Completion of backfilling.                                                              |
| 251          | Kaboson Foot Bridge           | 1,300,000.00         |                    | GOK       | Balance of outstanding payments to be cleared.       | completed                                   | completed    | CSE(B)            | Completed and opened to traffic                                                         |

| Sub Item No. | Road Name                   | Budgetary Allocation | Total Project Cost | Financier | Project Status     | Procurement Date                            | Commencement | Action Officer | REMARKS                                                                                 |
|--------------|-----------------------------|----------------------|--------------------|-----------|--------------------|---------------------------------------------|--------------|----------------|-----------------------------------------------------------------------------------------|
|              | <b>WESTERN PROVINCE</b>     |                      |                    |           |                    |                                             |              |                |                                                                                         |
| 252          | Running of Bridge Unit      | 1,500,000.00         |                    | GOK       | Funds Issued.      | Running of Bridge Unit throughout the year. |              | PWO (Western)  | Purchase of tires for vehicles, Batteries, POL, Stationeries and Running of Bridge Unit |
| 253          | Mwitumbu                    | 1,500,000.00         |                    | GOK       | Funds Issued.      | Mar-04                                      | May-04       | CSE(B)         | Backfilling of culverts by contract.                                                    |
| 254          | Namang'ofulo Bridge         | 2,500,000.00         |                    | GOK       | funds to be Issued | Mar-04                                      | Jun-04       | CSE(B)         | Replacement of bailey bridge with permanent bridge                                      |
| 255          | Masaba bridge (box culvert) | 4,000,000.00         |                    | GOK       | Funds to be Issued | Mar-04                                      | Jun-04       | CSE(B)         | construction stalled box culvert 2x 2.5mx5m                                             |
| 256          | Nzoia Bridge                | 3,000,000.00         |                    | GOK       | Funds to be Issued | Mar-04                                      |              | CSE(B)         |                                                                                         |
| 257          | Kamole Bridge               | 1,500,000.00         |                    | GOK       | Funds Issued.      | Mar-04                                      | May-04       | CSE(B)         | Deck slab and backfilling of approach roads. Opening of the road to road A104.          |
| 258          | Angurai "A" Culvert         | 1,500,000.00         |                    | GOK       | Funds to be Issued | Mar-04                                      | Jun-04       | CSE(B)         | Construction of box culvert                                                             |

**APPENDIX 2.**

# **ROAD DESIGN**

DESIGN



## **Departmental Design**

### **1. Repair, Resealing, Recarpeting & Reconstruction Projects**

The following projects are under various stages of procurement:-

1. Embu – Thuchi
2. Machakos Turn-Off – Masii
3. Masii – Kitui
4. Thuchi - Nkubu
5. Katito – Kendu Bay
6. Ruiru – Kiambu/Roysambu/Muthaiga
7. Nairobi – Thika
8. Mbagathi Way
9. Kisumu – Kakamega
10. Kakamega – Webuye

Award and commencement are programmed to take place between June and October, 2004.

### **2. New Construction Projects**

Various projects are under design for upgrading to bitumen standards.

The following projects are under various stages of procurement:-

1. Processional Way – Bids have been invited from prequalified Contractors.
2. Kitui - Kagonde
3. Ruiru - Isiolo - Muriri

Award and commencement are programmed to take place between May and June, 2004.

### **3. Graveling Projects**

Various roads are programmed to be upgraded to gravel standards.

The following projects are at various stages of procurement:-

1. Kahaini – Mukarara
2. Mathatani – Kaseve – KOL
3. Koma – Mitaboni – Kithiani
4. Kagere- Ndunyu-Gitugi Factory Kairuthi-Othaya-Mumbuini Kairo/Giakanja-Gathuthi
5. Kiburu-Kiandagae-Mururiini-Kianjege-Gachoro-Githuguiya Access to Kiine Secondary
6. Bondo – Nango – Lihunda Wagusu
7. Bungoma – Bokoli - Kimilili
8. Kakamega-Ingotse – Nambacha – Shihanda
9. Musanda – Butere – Sigomere – Ugunja Ukwala
10. Ebuyangu – Ekeru
11. Oria – Pala – Magina – Mirogi
12. Jn C51 – Iten – Kapsowar - Chesoi
13. Illasit – Olkiloriti – Njukiine
14. Nanyuki – Matanya – Naromoru
15. Naromoru - Lamuria - Ngobit
16. (A2) Maili Sita – Ngenia - Muramati
17. Muiga – Endarasha – Watuka – Nairutia
18. Kombewa - Maseno

Award and commencement are programmed to take place between June and September, 2004.

### **4. Design Projects for Upgrading**

The following projects are programmed for design departmentally:-

1. Thogoto – Mutarakwa road (D411) : to bitumen standard
2. Bomas Jn. (58) : Upgrading to a Round about
3. Athi/Ikutha Bridges : Design of approaches to gravel standards

**MINISTRY OF ROADS, PUBLIC WORKS & HOUSING  
DESIGN BRANCH PROJECTS, 2003-2004**

**19th April, 2004**

| Serial No | Project Name                                     | Budgetary Allocation Ksh | Total Project Cost Ksh. | Financier (GOK/Donor) | Project Status                             | Procurement Date                      | Project commencement Date               | Action Officer               | Remarks                                                                                                                                                                                    |
|-----------|--------------------------------------------------|--------------------------|-------------------------|-----------------------|--------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1         | Northern Corridor Transport Improvement Project  | 495,000,000              | Approx US\$ 218 million | GOK/IDA               |                                            |                                       |                                         |                              |                                                                                                                                                                                            |
| (a)       | Maji ya Chumvi - Miritini (A109)                 |                          |                         | GOK/IDA               | Design completed.                          | To be known after formal negotiations | To be known after procurement completed | Project Technical Team (PTT) | Project Preparation ongoing. Formal Project Appraisal completed 26th February 2003. Presentation to WB Board and negotiations due April 2004. Procurement to commence after Board Approval |
| (b)       | Sultan Hamud-Machakos Turnoff (A109)             |                          |                         | GOK/IDA               | Design completed.                          | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                       |
| (c)       | Machakos Turnoff-Athi River-Embakasi (A109/A104) |                          |                         | GOK/IDA               | Design in progress                         | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                       |
| (d)       | Laret-Nakuru-Njoro Turnoff (A104)                |                          |                         | GOK/IDA               | Design in progress                         | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                       |
| (e)       | Njoro Turnoff-Mau Summit-Timboroa (A104)         |                          |                         | GOK/IDA               | Design Completed                           | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                       |
| (f)       | Mau Summit-Kericho-Kisumu (B1)                   |                          |                         | GOK/IDA               | Design in progress                         | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                       |
| (g)       | Airport North Road Dual Carriageway              |                          |                         | GOK/IDA               | TOR for Design and build has been prepared | -do-                                  | -do-                                    | -do-                         | -do-                                                                                                                                                                                       |
| (h)       | Road Condition and Inventory Survey              |                          | US\$ 1.16 mill.         | GOK/IDA               | Fieldworks ongoing                         |                                       | Jun-01                                  | CSE (P)                      | Fieldworks covered most district and trunk roads                                                                                                                                           |

**INHOUSE DEPARTMENTAL AND CONSULTANCY DESIGN**

|     |                                                  |             |                   |     |                                                                      |                            |            |         |                                                                                                                                                                |
|-----|--------------------------------------------------|-------------|-------------------|-----|----------------------------------------------------------------------|----------------------------|------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2   | Ruiru-Isiolo                                     | 40,000,000  |                   | GOK | Under design                                                         | 11 <sup>th</sup> June 2004 | June,2004  | CSE (D) | Survey data received. Materials report expected on 30/4/2004. Tender Document to be ready by 30/4/2004                                                         |
| 3   | Kangonde-Kitui-Kibwezi                           |             |                   |     |                                                                      |                            |            |         |                                                                                                                                                                |
| (a) | Kangonde-Kitui (B)                               | 20,000,000  | Under Procurement | GOK | Tender documentation and prequalification in progress                | May-04                     | 1-Jun-04   | CSE (D) | Surveyors on site. Materials report not yet submitted. Design in progress.                                                                                     |
| (b) | (b) Kitui - Kibwezi                              |             |                   | GOK | Tender documentation and prequalification in progress                |                            |            | CSE (D) | Surveyors on site. Materials report not yet submitted.                                                                                                         |
| 4   | Kithimani-Makutano                               | 5,000,000   | Under procurement | GOK | Procurement of consultant underway                                   | May, 2004                  | June,2004  | CSE (D) | Design in progress<br>Technical and Financial proposals to be opened on 16/4/ 2004                                                                             |
| 5   | Ndori-Owimbi                                     | 195,000,000 | Under Procurement | GOK | Consultant being financed for design review and supervision          | May, 2004                  | June, 2004 | CSE(D)  | Analysis of Financial proposal for consultant completed. Report with MTC                                                                                       |
| 6   | Rangala-Siaya-Bondo-Misori Owimbi-Luanda-Kotieno | 50,000,000  |                   | GOK | Evaluation of report for prequalification of Consultants in progress | May, 2004                  | June, 2004 | CSE (D) | Financial and Technical Proposals from consultants opened on 19/3/2004. Evaluation of Technical proposals in progress. Evaluation to be completed by 26/4/2004 |
| 7   | Kendu-Bay-H/Bay-Mbita                            | 50,000,000  | Under Procurement | GOK | -do-                                                                 | May, 2004                  | June, 2004 | CSE (D) | -do-                                                                                                                                                           |
| 8   | Nanyuki-Nyahururu                                | 5,000,000   | Under Procurement | GOK | Procurement of consultancy services underway                         | May,2004                   | June, 2004 | CSE (D) | Technical and Financial proposals to be opened on 13/4/ 2004                                                                                                   |
| 9   | Mayoni-Port Victoria (Bumala- Port Victoria)     | 40,000,000  | Under Procurement | GOK | Procurement of consultant                                            | May-04                     | 1-Jun-04   | CSE(D)  | Technical and Financial proposals to be opened on                                                                                                              |

|    |                                                   |             |                   |     |  |                                       |  |                            |            |        |  |                                                                           |
|----|---------------------------------------------------|-------------|-------------------|-----|--|---------------------------------------|--|----------------------------|------------|--------|--|---------------------------------------------------------------------------|
|    |                                                   |             |                   |     |  | underway                              |  |                            |            |        |  | 29/4/ 2004                                                                |
| 10 | Busonga-Siaya                                     | 35,000,000  | Under Procurement | GOK |  | Procurement of consultant underway    |  | May, 2004                  | June, 2004 | CSE(D) |  | Technical and Financial proposals to be opened on 29/4/ 2004              |
| 11 | Processional Way                                  | 150,000,000 | Under Procurement | GOK |  | Tender documentation finalized        |  | 18 <sup>th</sup> May, 2004 | June, 2004 | CSE(D) |  | Design and Tender documentation complete. Sale of documents on 14/4/2004. |
| 12 | Research & Lab. Materials                         | 4,000,000   |                   | GOK |  | Being used for material investigation |  |                            |            | CSE(D) |  | Funds utilized throughout the year as need arises                         |
| 13 | Consultancy and Design                            | 50,000,000  |                   | GOK |  | Various projects are being procured   |  | May, 2004                  | June, 2004 | CSE(D) |  | Various projects are under procurement.                                   |
| 14 | Consultancy fees, Preliminary Survey and Planning | 5,000,000   |                   | GOK |  | Being used for survey activities      |  |                            |            | CSE(D) |  | Funds utilized throughout the year as need arises                         |

**PROJECTS FUNDED JOINTLY BY GOK/ DONORS**

|    |                        |             |                                   |               |  |                                   |  |           |            |         |  |                                                                                                              |
|----|------------------------|-------------|-----------------------------------|---------------|--|-----------------------------------|--|-----------|------------|---------|--|--------------------------------------------------------------------------------------------------------------|
| 15 | Wote-Makindu           | 160,000,000 | Under design review by consultant | OPEC/<br>GOK  |  | Under design review by consultant |  | 15-7-03   | June, 2004 | CSE (D) |  | Consultant is undertaking design and construction supervision. Draft bid documents received from consultant. |
| 16 | Wote Makindu           | 75,000,000  |                                   | BADEA/<br>GOK |  | -do-                              |  |           | -do-       | CSE (D) |  | -do-                                                                                                         |
| 17 | Meru-Githongo-Chogoria | 50,000,000  | Under Procurement                 | -do-          |  | TOR under preparation             |  | May, 2004 | June 2004  | CSE (D) |  | Being undertaken under the Mount Kenya Rural Roads Infrastructure project financed by KfW above.             |
| 18 | Marimba-Nkubu-Mitunguu | 50,000,000  | Under Procurement                 | -do-          |  | TOR under Preparation             |  | May 2004  | June 2004  | CSE (D) |  | Being undertaken under the Mount Kenya Rural Roads Infrastructure project financed by KfW above.             |

|    |                          |             |  |         |                                        |                 |              |        |                                                                                                                                                      |
|----|--------------------------|-------------|--|---------|----------------------------------------|-----------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19 | Mai-Mahiu-Naivasha-Lanet | 300,000,000 |  | EDF/EEC | Under tender documentation             | 28th June, 2004 | 1st Jan 2005 | CSE(D) | Advertisement for prequalification for supervision consultant and contractor done on 25/3/2004 and 31/3/2004 respectively.                           |
| 20 | Mai-Mahiu-Narok          | 185,000,00  |  | France  | Procurement of consultant already done | March, 2004     | April, 2004  | CSE(D) | Notification of award to successful consultant done on 31/4/2004. Award letter to be done after 21 days. Unsuccessful tenderers informed accordingly |
| 21 | Mai-Mahiu-Narok (kfw)    | 100,000,000 |  | FRG     | -do-                                   |                 | 1-Jun-04     | -do-   | -do-                                                                                                                                                 |

**MINISTRY OF ROADS PUBLIC WORKS AND HOUSING  
GOK/FUEL LEVY PROJECTS 2003 - 2004**

| Sub Item No. | Road Name                                     | Budgetary Allocation | Total Project Cost | Financier | Project Status                                               | Procure-ment Date | Commence-ment   | Action Officer | REMARKS                                                                                     |
|--------------|-----------------------------------------------|----------------------|--------------------|-----------|--------------------------------------------------------------|-------------------|-----------------|----------------|---------------------------------------------------------------------------------------------|
| 22           | Nairobi - Thika                               | 10,000,000           | Under Procurement  | Fuel Levy | Prequalification, Design & Tender Documentation in Progress. | 11th June, 2004   | June/July, 2004 | CSE(D)         | Materials Report received. Preparation of tender document to be completed by 30/4/2004      |
| 23           | Kiambu - Ruiru - Kamiti - Muthaiga - Roysambu | 10,000,000           | Under Procurement  | Fuel Levy | Prequalification, Design & Tender Documentation in Progress. | 11th June, 2004   | June/July, 2004 | CSE(D)         | Materials Report not submitted. Preparation of tender document to be completed by 30/4/2004 |
| 24           | Jn C51- Iten- Kapsowar- Chesoi                | 5,000,000            | Under procurement. | Fuel Levy | RFP for design consultant under preparation                  | 3/6/2004          | June, 2004      | CSE(D)         | RFP to be ready on 16/4/2004. Document to be sold to be sold to consultant on 19/4/04       |

| Sub Item No. | Road Name                   | Budgetary Allocation | Total Project Cost | Financier     | Project Status                                               | Procurement Date | Commencement    | Action Officer | REMARKS                                                                                 |
|--------------|-----------------------------|----------------------|--------------------|---------------|--------------------------------------------------------------|------------------|-----------------|----------------|-----------------------------------------------------------------------------------------|
| 25           | Jn C51-Iten-Kapsowar-Chesoi | 20,000,000           |                    | GOK fuel levy | Prequalification, Design & Tender Documentation in Progress. | 24/6/2004        | June, 2004      | CSE(D)         | Materials report received. Pretender Site visit to be on 28-30/4/2004                   |
| 26           | Embu - Thuci                | 20,000,000           | Under procurement. | GOK/Fuel Levy | Prequalification, Design & Tender Documentation in Progress. | 24th June, 2004  | June/July, 2004 | CSE(D)         | Materials Report submitted. Preparation of tender document to be completed by 15/4/2004 |
| 27           | Thuchi -- Nkubu             |                      | Under procurement. | GOK/Fuel Levy | Prequalification, Design & Tender Documentation in Progress. | 11/6/2004        | June/July, 2004 | CSE(D)         | Materials report received.                                                              |
| 28           | Masii - Kitui               | 10,000,000           | Under procurement. | Fuel Levy     | Prequalification, Design & Tender Documentation in Progress. | 24th June, 2004  | July, 2004      | CSE(D)         | Materials report received. Preparation of tender document to be completed by 15/4/2004. |
| 29           | Machakos Turnoff - Masii    | 10,000,000.00        | Under procurement  | Fuel levy     | Prequalification, Design & Tender Documentation in Progress  | 24th June, 2004  | July, 2004      | CSE(D)         | Materials report received. Preparation of tender document to be completed by 15/4/2004. |

| Sub Item No. | Road Name                                                  | Budgetary Allocation | Total Project Cost | Financier     | Project Status                                                                         | Procurement Date      | Commencement          | Action Officer | REMARKS                                                                                                                          |
|--------------|------------------------------------------------------------|----------------------|--------------------|---------------|----------------------------------------------------------------------------------------|-----------------------|-----------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| 30           | Kisumu-Kakamega Kakamega - Webuye                          | 10,000,000.00        |                    | GOK/Fuel Levy | proposed                                                                               | 15/9/ 2004            | October, 2004         | CSE (D)        | Materials report expected On30/6/2004. Not yet advertised.                                                                       |
| 31           | Kakamega -Ingotse-Nambacha -Shihanda (C41/ D266)           | 5,000,000.00         |                    | GOK/Fuel Levy | proposed                                                                               | 3/6/2004              | June,2004             | CSE (D)        | Materials report not submitted. BoQ details received from PRE's                                                                  |
| 32           | Musanda-Butere-Sigomere                                    | 10m                  | Under procurement. | Fuel Levy     | Prequalification and Tender Documentation in Progress.                                 | 3/6/2004              | June, 2004            | CSE(D)         | Materials report not submitted. BoQ details received from PRE's                                                                  |
| 33           | Ebuyangu - Ekeru<br>Within the Design Branch Budget<br>10m |                      | *                  | Fuel Levy     | Request for Consultancy proposal<br>Prequalification /Tender documentation in progress | May, 2004<br>3/6/2004 | June, 2004<br>June 04 | CSE(D)         | Technical and Financial proposals to be opened on 29/4/ 2004.<br>Materials report not submitted. BoQ details received from PRE's |
| 34           | Mathatani-Kaseve-Kol                                       | 5,000,000            | Under procurement. | Fuel Levy     | Prequalification & Tender Documentation in Progress.                                   | 3/6/2004              | June, 2004            | CSE(D)         | Materials report not submitted. BoQ details received from PRE's.                                                                 |
| 35           | Koma - Mitaaboni - Kathiani                                | 5,000,000.00         | Under procurement  | GOK/Fuel Levy | Prequalification & Tender Documentation in                                             | 3/6/2004              | June 2004             | CSE (D)        | Materials report not submitted. BoQ details received from                                                                        |



| Sub Item No. | Road Name                      | Budgetary Allocation | Total Project Cost | Financier     | Project Status                                                          | Procurement Date      | Commence-ment               | Action Officer | REMARKS                                                                                                                |
|--------------|--------------------------------|----------------------|--------------------|---------------|-------------------------------------------------------------------------|-----------------------|-----------------------------|----------------|------------------------------------------------------------------------------------------------------------------------|
|              |                                |                      |                    |               | progress                                                                |                       |                             |                | PRE's                                                                                                                  |
| 36           | Oria - Pala - Magina           | 5,000,000            | Under procurement. | Fuel Levy     | Prequalification & Tender Documentation in Progress.                    | 3/6/2004              | June, 2004                  | CSE(D)         | Materials report not submitted. BoQ details received from PRE's.                                                       |
| 37           | Awasi Katito                   | 5,000,000.00         | 170,000,000.00     | GOK/Fuel Levy | Proposed                                                                | 11/6/2004             | June/July 2004              | CSE (D)        | Materials report not submitted. BoQ details received from Province                                                     |
| 38           | Bungoma-Bokoli-Kimilili        | 5,000,000.00         | Under procurement  | GOK/Fuel Levy | Request for proposal for design to be issued by 16/4/2004<br>Gravelling | June 2004<br>3/6/2004 | June/July 2004<br>June 2004 | CSE (D)        | To be issued for consultancy design by 16/4/2004<br>Materials report not submitted. BoQ details received from Province |
| 39           | Illasit - Olkiloriti - Njukini | 5m                   | Under procurement. | Fuel Levy     | Prequalification & Tender Documentation in Progress.                    | 3/6/2004              | June 2004                   | CSE(D)         | Materials report expected on 15/4/2004. Tender documentation to be completed by 22/4/2004                              |

| Sub Item No. | Road Name                   | Budgetary Allocation | Total Project Cost | Financier     | Project Status                                         | Procurement Date | Commencement | Action Officer | REMARKS                                                                                                |
|--------------|-----------------------------|----------------------|--------------------|---------------|--------------------------------------------------------|------------------|--------------|----------------|--------------------------------------------------------------------------------------------------------|
| 40           | Njiri-Makomboki             | 4.1 m                | Under procurement. | GOK/Fuel Levy | Documentation in Progress                              | July 04          | Aug 04       | CSE (D)        | Proposed for incorporation into 2004/2005 budget                                                       |
| 41           | Kairuthi - Othaya-Mumbuini  | 5m                   | Under procurement. | Fuel Levy     | Prequalification & Tender Documentation in Progress.   | 3/6/2004         | June, 2004   | CSE(D)         | Materials report not submitted. BoQ details received from PRE's.                                       |
| 42           | Mukurweini - Nyakahura      | 5m                   | Under procurement. | Fuel Levy     | Procurement of consultant under way.                   | 3/6/2004         | June, 2004   | CSE(D)         | Technical and Financial proposals to be opened on 13/4/2004                                            |
| 43           | Mareira - Kaniua            | 5m                   | Under procurement. | Fuel Levy     | Evaluation of design Consultancy proposals to be done. | June,2004        | July 2004    | CSE(D)         | Technical and Financial proposals opened on 13/4/2004.                                                 |
| 44           | Nanyuki - Matanya-Naro Moro | 5m                   | Under procurement  | Fuel Levy     | Documentation in Progress                              | 6/8/2004         | 7/9/2004     | CSE (D)        | Not yet advertised. Materials report not yet prepared. Prequalification document to ready by 26/4/2004 |
| 45           | Lamuria - Ngobit - Wium     | 5m                   | Under procurement  | Fuel Levy     | Documentation in Progress                              | 6/8/2004         | 7/9/2004     | CSE (D)        | Not yet advertised. Materials report not yet prepared. Prequalification document to ready by 26/4/2004 |
| 46           | Malii Sita - Ngenia         | 5m                   | Under procurement  | Fuel Levy     | Documentation in Progress                              | 6/8/2004         | 7/9/2004     | CSE (D)        | Not yet advertised. Materials report not yet prepared.                                                 |

| Sub Item No. | Road Name                        | Budgetary Allocation | Total Project Cost | Financier | Project Status                                       | Procurement Date | Commencement | Action Officer | REMARKS                                                                                                             |
|--------------|----------------------------------|----------------------|--------------------|-----------|------------------------------------------------------|------------------|--------------|----------------|---------------------------------------------------------------------------------------------------------------------|
| 47           | Kiburu - Kiandanga               | 5m                   | Under procurement. | Fuel Levy | Prequalification & Tender Documentation in Progress. | 3/6/2004         | June, 2004   | CSE(D)         | Prequalification document to ready by 26/4/2004<br>Materials report not submitted. BoQ details received from PRE's. |
| 48           | Kahini - Mukarara                | 5m                   | Under procurement. | Fuel Levy | Prequalification & Tender Documentation in Progress. | 3/6/2004         | June, 2004   | CSE(D)         | Materials report not submitted. BoQ details received from PRE's                                                     |
| 49           | Muiga-Endarasha -Wataka-Nairutia | 5m                   | Under procurement  | Fuel Levy | Documentation in Progress                            | 6/8/2004         | 7/9/2004     | CSE(D)         | Not yet advertised. Materials report not yet prepared. Prequalification document to ready by 26/4/2004              |
| 50           | Bondo - Nango - Lihunda          | 5m                   | Under procurement. | Fuel Levy | Prequalification & Tender Documentation in Progress. | 3/6/2004         | June, 2004   | CSE(D)         | Materials report not submitted. BoQ details received from PRE's                                                     |

Appendix 3:

**NORTHERN  
CORRIDOR ROAD  
TRANSPORT  
INFRASTRUCTURE  
PROJECT**

NORTHERN CORRIDOR

## **NORTHERN CORRIDOR ROAD TRANSPORT IMPROVEMENT PROJECT** **(NCTIP)**

### **STATUS OF PROJECTS PREPARATION AS ON 19<sup>TH</sup> APRIL 2004**

The Northern Corridor Transport Improvement Project is to be financed through a Development Credit from the International Development Association (IDA).

The project comprises the Improvement of some 368 km of key sections of Kenya's intentional trade routes as follows: -

- |                                                          |          |
|----------------------------------------------------------|----------|
| (a) Maji ya Chumvi – Miritini (A109)                     | - 35 km  |
| (b) Sultan Hamud - Machakos Turnoff (A109)               | - 55 km  |
| (c) Machakos Turnoff – Athi River – Embakasi (A109/A104) | - 29 km  |
| (d) Lanet - Nakuru – Njoro Turnoff (A104)                | - 14 km  |
| (e) Njoro Turnoff – Mau Summit – Timboroa (A104)         | - 83 km  |
| (f) Mau Summit – Kericho – Kisumu (B1)                   | - 145 km |
| (g) Airport North Road (dual carriageway)                | - 7.0 km |

Studies and design of Mau Summit – Kericho – Kisumu (B1) are being undertaken in-house by the Roads Department while the rest of the workload is by consultants Gibb E.A. and Norconsult AS (with the exception of the Airport North road that is to be undertaken as a 'Design and Build Project').

Existing study contracts for Messrs Gibb EA and Norconsult AS financed under the Credit for the Rehabilitation of Nairobi – Mombasa road were modified to include the additional services in (c) and (d) above (as well as the Muthaiga roundabout – Gigiri – Kuaka (C62) being undertaken by Norconsult AS) so as to expedite project preparatory activities and formal project appraisal expected in February 2004.

#### **Cost Estimates for Civil Works**

| Section No. | Section                                | Length (km) | Bank Portion (US\$) | GOK Portion (US\$) | Total Cost (US\$) |
|-------------|----------------------------------------|-------------|---------------------|--------------------|-------------------|
| 1           | Maji ya Chumvi – Miritini (A109)       | 35 km       | 11.02               | 3.67               | 14.69             |
| 2           | Sultan Hamud - Machakos Turnoff (A109) | 55 km       | 20.93               | 6.98               | 27.91             |

| Section No. | Section                                              | Length (km) | Bank Portion (US\$) | GOK Portion (US\$)  | Total Cost (US\$)   |
|-------------|------------------------------------------------------|-------------|---------------------|---------------------|---------------------|
| 3           | Machakos Turnoff – Athi River – Embakasi (A109/A104) | 29 km       | 29.66               | 9.89                | 39.55               |
| 4           | Lanet - Nakuru – Njoro Turnoff (A104)                | 14 km       | Included in 5 below | Included in 5 below | Included in 5 below |
| 5           | Njoro Turnoff – Mau Summit – Timboroa (A104)         | 83 km       | 31.36               | 10.45               | 41.81               |
| 6           | Mau Summit – Kericho – Kisumu (B1)                   | 145 km      | 35.6                | 11.87               | 47.56               |
| 7           | Airport North Road dual carriageway)                 | 7.0 km      | 8.25                | 2.78                | 11.0                |

### **Project preparation status**

The Project was appraised by World Bank between 9<sup>th</sup> – 25<sup>th</sup> February, 2004 and the Credit to finance successfully negotiated by the Government and World Bank team in Washington on 19<sup>th</sup> March, 2004.

The Credit is in the tune of US\$207 with Nordic Development Fund providing US\$15. The project is expected to be presented to the World Bank on 30<sup>th</sup> April, 2004. Effectiveness of the Credit is expected to be in June 2004.

Procurement of some sections of the project has already started and Contractors are expected to be on ground by March 2005.

## **BRIEF ON THE ROAD CONCESSION STUDY**

The BKS Group (Pty.) Ltd. was awarded the study "Road Concessions in Kenya" by the World Bank. The Study consists of two phases, namely an Assessment of Concessioning Potential and the Design of a Concessioning Framework.

Phase 1 of the study looked at the viability of road concessions in Kenya from a macroeconomic, microeconomic as well as a financial perspective. The study concentrated on the classified road network and addressed various types of road concessions from comprehensive build-operate-transfer (BOT) management (BOT) arrangements to comprehensive toll road operations management (CTROM). The study further compared the concessioning agreements i.e. private sector road supply to the public sector road supply by means of force account and contract management by investigating the classified road network given that higher traffic volumes are generally desirable for concessioning. The study concluded that road concessioning in Kenya is viable. The potential for concessioning is however limited to the Northern Corridor for conventional road tolling and the classified road network with ADTs > 500 vpd excluding the Northern Corridor for Shadow tolling.

Issues that were paramount to the outcome of this study are the current state of the road network, historical expenditure by government, higher costs of private sector funding, the potential higher efficiencies of private sector in road maintenance and construction, the current state of the fiscus and potential for increased public expenditure on roads, the available funding from development partners and their conditions and the current level of taxation of road users.

### **PHASE 1 STUDY FINDINGS**

Key highlights of the study findings are as follows:-

- The extent of the potential shadow toll network is 3,792km.
- The fuel levy income for the potential shadow toll network i.e. US\$22,494 million is sufficient to cover the maintenance expenses of the network i.e. US\$22,108.
- The estimated backlog of the shadow toll network is US\$360,545 million.

- The extent of the potential conventional concession:- The Northern Corridor from Mombasa to Malaba – is 922km (excluding the planned bypasses for Mombasa, Nairobi and Nakuru).
- Fuel levy income for the Northern Corridor is US\$13,076 million, which can be used to subsidize other roads – classified roads with ADTs<500vpd and unclassified roads.
- The estimated backlog for the Northern Corridor is US\$335,700 million, which excludes the cost of planned bypasses for Mombasa, Nairobi and Nakuru.
- The extent of the classified road network with ADTs<500vpd – suitable for public sector management through force account and/or contract management – is about 58,949km. The fuel levy income for this network is only US\$11,545 million compared to a maintenance requirement of US\$82,023 million and a backlog of US\$472,939 million.

## **PHASE II STUDY FINDINGS**

Phase II of the Study details the design of a concessioning framework for Kenya based on more detailed investigations which includes:-

- A concession framework
- A finding framework for roads based on an equitable road user charging system and appropriate taxation levels for road users.
- A contractual framework
- A legislative and regulatory framework.

A draft final report of the study was presented in June 2003. The study recommends an introduction of conventional tolling in the Northern Corridor – over a distance of 1,208km. Notably, the study identified three viable road concessions i.e.

- Mombasa-Machakos
- Machakos-Rironi
- Rironi to Malaba via Eldoret and to Busia via Kisumu.

The study recommends nine different toll plazas namely Mackinnon, Kibwezi, Athi River, Kikuyu, Gilgil, Eldoret, Webuye, Kericho, Kisumu.



The required toll rates for a 25 – year concession period and an after tax real return of 20% on an equity investment of US\$205 million of profit costs are as follows:-

|           |                        |
|-----------|------------------------|
| Class I   | 2.50 US cents per km   |
| Class II  | 6.25 US cents per km   |
| Class III | 7.50 US cents per km   |
| Class IV  | 10.00 US cents per km. |

The recommended toll rates are both affordable (equal to only 10% of the vehicle operating costs) and will result in savings in vehicle operating cost.

The contractual framework is discussed in the report by looking at the roles of and relationships between the parties to a BOT arrangement. This includes the relationships between the principal parties namely the Government of Kenya, the concession company, sponsors, equity investors, lenders, development partners, contractors, operator, specialist advisors, export credit agencies etc. As regards the legislative and regulatory framework, the study finds that the current road sector legislation does not empower the conclusion of a concession agreement with the private sector allowing the latter to toll a public road and retain a portion or all the income from tolls. The Public Roads Toll Act of 1984 serves as the best anchor for amendment to mandate concessioning.

### **BENEFITS OF CONCESSIONING**

Although the financial cost of concessioning is expensive, the economic benefits of private sector involvement in the road sector outweigh these disadvantages by far. These benefits are not only in terms of economic growth estimated at 1% of GDP during construction period but also strengthening the economy of Kenya in terms of balance of Payments, Price Stability, Employment, Income distribution and transfer of skills of technology.

In summary, the following matrix gives a Timeline of what has been achieved so far as regards concessioning of the management and maintenance of the Northern Corridor.

| <b>ACTION</b>                          | <b>TIME LINE</b>  | <b>STATUS</b>                                                 |
|----------------------------------------|-------------------|---------------------------------------------------------------|
| 1. Study of Road Concession (Phased)   | March 2002        | Complete                                                      |
| 2. Study of Road Concession (Phase 2)  | June 2003         | Complete                                                      |
| 3. Preparation Cabinet Memo            | July 2003         | Complete (Memo currently at the Attorney General's Chambers). |
| 4. Expression of Interest              | 20-2-2004         | Already advertised.and response received.                     |
| 5. Investors Conference                | To be known later | To be called                                                  |
| 6. Preparation of Bidding documents    |                   | Not yet                                                       |
| 7. Tender                              |                   | Not yet                                                       |
| 8. Concession of the Northern Corridor |                   | Not yet                                                       |

It is however important to note that the Ministry has received No Objection from World Bank to select BKS Global Ltd. to proceed with the preparation of Bidding Document for Concessioning of Machakos-Turnoff-Rironi including Nairobi Southern Bypass and the contract is now being procured. Once we have the Cabinet Memo approved (Action 3), then we shall be able to proceed with Action Numbers 4, 5, and 6 effectively.

**M.O.R.P.W. & H.**  
**APRIL 2004**

APPENDIX 4.

**NAIROBI AND  
MOMBASA  
BYPASSES**

BY PASSES

# **BRIEF ON THE DEMOLITION OF ILLEGAL STRUCTURES ON THE NAIROBI BYPASSES, LINK ROADS AND WITHIN THE ROAD RESERVES COUNTRY WIDE**

## **Objective**

The objective of reserving the road corridors for these bypasses was to develop roads on the fringes of Nairobi City to enable through traffic to avoid the congested areas of the city and other obstructions to movement of traffic.

There are three proposed bypasses in Nairobi. When constructed these bypasses will ease traffic congestion in the central business district. The three bypasses are Nairobi Southern, Northern and Eastern bypasses. These corridors are 60m wide which have been reserved for the development of roads. There is also a proposed link between the Southern and Northern bypass.

Over time and due to the fact that the roads have remained undeveloped, substantial encroachment has occurred on the corridors, thereby contravening the Traffic Act, Cap. 403, section 91 of the Laws of Kenya. The encroachment mainly involves illegal allocation of land and construction of structures, mainly Residential and commercial buildings.

The following is a brief description of each bypass.

### **Nairobi Southern Bypass**

This proposed bypass is approximately 30km in length. The survey for this corridor was carried out in 1990, subsequent to which a detailed design, funded by the Japanese International Corporation Agency (JICA) was completed in 1991. The detailed design documents are in the custody of the Roads Department.

It starts on Mombasa road between St. James hospital and Kencell building. At the Mombasa road interchange it connects to Likoni road.

After the interchange, the road passes through a small section of the former American Embassy, through a section of the Nairobi National Park. After the park the road passes near the Carnivore restaurant and above Uhuru Gardens. It then passes through a section of the 7<sup>th</sup> Kenya Rifles Langata, onto Langata road. After Langata road, the road passes below Uhuru, Southlands, Ngei and Otiende estates but above Motoine river. After Ngei estate the road

runs below the Langata Women prison and Police Dog section but above Motoine river. The road then crosses into Ngong forest and crosses Ngong road below Lenana school near Motoine river, crosses into the forest and then into Motoine sub location. The road then crosses Langata road (C63) below the railway bridge at Dagorreti into Dagorreti forest.

After Dagorreti forest the road passes through Thogoto sub location onto the C411 (Thogoto –Gikambura road), passes below Thogoto Teachers college but above Alliance girls and Alliance boys schools. The road then crosses the Ondiri swamp to Kikuyu town where it joins the C63 at the railway bridge and ends at Gitaru on the Nairobi-Nakuru highway (A104).

### **Encroachment**

The following areas are encroached upon on the Southern by pass.

- Traffic interchange on Mombasa Road next to the former American Embassy building.
- Between Nairobi South C and the Nairobi National Park
- Next to the Carnivore Restaurant
- Between Southlands Estate and the Langata Women prison.

### **Demolition**

The section between the proposed Mombasa road interchange through carnivore restaurant, Southlands, Otiende and Langata Women prison is complete. All this section was Government land and therefore no compensation claims can be lodged.

### **Nairobi Northern Bypass**

The Nairobi Northern bypass starts after Ruaka trading center on Limuru road (C62), crosses the road to Banana (C63) onto Koinange Farm, LR No.22 (formerly Closeburn farm) and passes through to Runda area, through Githogoro Village and crosses Kiambu road above Ridgeways. The road then passes through Marurui, Thome, and through LR No. 30/2, 5987, 1012/6, 11478, 4927 and crosses Kamiti road at Githurai 44. The road then crosses Riara river, through Kamuthi farmers, crosses Kiu river to Kahawa west, Kamae, Kiwanja and then crosses Kamiti river. After Kamiti river the road goes to Ruiru after crossing the Eastern bypass.

The approximate length of the Nairobi Northern bypass is 25km. However, only 7 km of this road was compulsorily acquired in 1970. This is section between Ruaka and Kiambu road . A feasibility Report on the possible

extension of Ruaka-Kiambu road to Thika Road” was submitted to the Government on the 17<sup>th</sup> of January, 1973.

However, the section between Kiambu road and Thika road was never compulsorily acquired. The Nairobi City Council invoked the already repealed Town planning act Cap. 302, for owners of property to surrender 60m road corridor whenever they sought a approval for subdivision of their farms.

### **Encroachment**

The following areas are encroached upon on the Nairobi Northern bypass.

- Runda area
- Githogoro Village
- Mabati structures at Githurai 44
- Kamuthi Farmers
- Kahawa West
- Kamae Slums
- Kiwanja

### **Demolition**

Illegal structures in the following areas are yet to be demolished: -

- Githogoro village
- Githurai 44
- Kahawa West
- Kamae Slums

Owners of illegal structures in the following areas have demolished them. They include: -

- Kamuthi farmers
- Kiwanja to Kamiti river

### **Link Roads**

The Nairobi Southern and Northern bypasses are proposed to be linked by two link roads. The first link commences on Langata Road next to Langata Police Station, through Southlands estate, crosses the Nairobi Southern bypass, past Motoine river through Kibera Slums. After the slums the road crosses Ngong road through Yaya center parking area, past Argwings Kodhek road. The road then runs past Dennis Prit road through Kirichwa

Kubwa river. After the river, one arm runs through Kileleshwa to Westlands round about, while the other ends up at James Gichuru road.

The Waiyaki way to Redhill road is the other link. This link was designed in 1973 and subsequently acquired in 1975. This section is about 4km. This link is supposed to be extended to join the Nairobi Northern bypass at Runda.

### **Encroachment**

The following areas are encroached upon on the Link roads.

- Kibera slums
- Ring road Kilimani
- Ring road Kileleshwa
- Between Waiyaki Way and lower Kabete road
- Spring Valley road
- Kitsuru road

### **Demolition**

- (i) The section starting from Langata road next to Langata Police station through Southlands up to Motoine river is completely cleared of any illegal structures. As for the section between Yaya Centre , past Dennis Pritt road to Kirichwa Kubwa river, the demolition is about 80% complete through our efforts. The owners of these temporary garages and eating places are doing self demolition, so that they can salvage their property. As for the section between Yaya center through DO's office Kibera up to Motoine river the demolitions have not started.
- (ii) On the Waiyaki Way to Redhill road the demolitions are complete.

### **Nairobi Eastern bypass**

The length of this road is approximately 30km and is not designed. This 60m road corridor starts on the Ruiru-Kiambu road (C63), opposite the Ruiru prison college's farm. It then crosses the Nairobi Northern bypass on a more or less easterly course, crosses the railway line onto Thika road. This section is approximately 5 km. After crossing Thika road, again on a more or less easterly course, the road runs for about 7km before it turns and crosses Gatharani river, crosses Nairobi river into Ruai. The corridor then crosses the road to Kangundo and traverses about 10km to Mombasa road through North airport road.

This road corridor is not compulsorily acquired, but the provisions of the repealed Town Planning Act Cap. 302 was applied by the Nairobi City Council Planning Department for owners to surrender 60m road corridor before approval of their subdivision schemes.

### **Encroachment**

The following areas are encroached upon on the Nairobi Eastern bypass.

- Between C63 ( Ruiru-Kiambu road) and Thika road
- 2km after Thika road
- Embakasi Village

### **Demolition**

The programme for demolition of illegal structures on the Eastern bypass is being prepared.

### **Processional Way**

This road is approximately 2km and runs from Statehouse road to Haile Sellassie Avenue. All illegal structures on this road have been cleared.

### **Demolition of outstanding illegal structures**

Four weeks will be required to demolish the outstanding illegal structures on the Nairobi bypasses.

### **Link Road**

One week will be required to clear the section between DO's Kibera to Motoine river. In this same period demolitions will continue on the remaining shanties on around Dennis Pritt road. In the second week the section between Kileleshwa to Westlands roundabout will be cleared including the Kileleshwa James Gichuru road section.

### **Northern bypass**

In the third week demolitions will shift to the Nairobi Northern bypass. Illegal structures between Kiu river and Kahawa West will be demolished. This will be followed by Kamae slums. Three days will be required to clear Githogoro Village in Runda.



### **Nairobi Eastern bypass**

Five days will be required to clear Embakasi village to Kangundo road on the Eastern by pass.

### **Kisii Bypass**

The Kisii By-pass is located in Kisii town in Kisii Central District with a total length of 6.5km and a proposed width of 40m. The bypass commences off the Kericho - Kisii road (B3) at Daraja Moja bridge as one approaches Kisii town from Keroka. Through a more or less northerly direction, the bypass covers a distance of about 3km to a proposed traffic interchange. At this point the road branches into two arms. One arm takes a more or less south - westerly direction and joins the B3 at Daraja Mbili bridge in Kisii town. The length of this arm is 0.5km.

The other arm continues on a more or less north – westerly direction to end at Nyamataro junction on the Isabenia – Kisii – Kisumu road (A1). The length of this stretch is 3.0km. The section between Daraja Moja junction and the proposed interchange, for the first stretch of 3km falls under trust land, while the remaining section of 3km falls under freehold land.

There is an existing earth road 4.5m wide within the section of the freehold land. The required corridor will need to be acquired by compensating the land owners.

### **Encroachment**

The following area is encroached upon on the Kisii by pass.

- At the junction of the bypass and B3 road, a story business premise is erected within the proposed bypass

### **Mombasa, Kisumu, Nakuru bypasses**

The information regarding these bypasses is being compiled.

### **Country wide Demolitions**

The Minister for Roads, Public Works and Housing Hon. Raila A. Odinga issued a notice contained in gazette notice no. 3532 of 6<sup>th</sup> June 2003 that all illegal structures already existing on the road reserves should be removed within 30 (days) of the said notice. Failure to comply would result in the demolition of such illegal structures. Another notice was issued on the 6<sup>th</sup> of August, 2003 reminding the general public that the deadline set in the gazette

notice of 6<sup>th</sup> June 2003 had expired and all illegal structures on road reserves will be demolished.

With the expiry of this notice the demolitions are going on countrywide according to reports received from the districts and the provinces. The details regarding the road reserve widths are available together with the drawings/plans showing the roads.

**APPENDIX 5.**

**ROAD MAINTENANCE  
ACTIVITIES**

MAINTENANCE.

## ROAD MAINTENANCE BRANCH

### I. GENERAL

Road Maintenance Branch has two sections, namely:-

1. Trunk Roads consisting of classes A,B and C.
2. Feeder Roads consisting of DRC roads and R2000.

The total classified road network is 63,300km made up 54,700km of unpaved roads and 8600km of paved roads. About 43% of the classified network is in maintainable condition and the balance (about 57%) need to be rehabilitated to be brought to maintainable condition.

Maintenance activities include periodic (resealing/regravelling), routine (grading, patching, vegetation control, drainage works) and emergencies such as washouts.

The Branch has endeavoured to enhance maintenance by trying to eliminate potholes and spot sealing on tarmack roads, grading, bush clearing, drainage works and spot improvement all geared towards improvement of road safety, reduction on travel time and vehicle operating costs.

Enumerated below are some of the actions taken towards realizing the intended goals.

### II. PROCUREMENT OF VEHICLES/EQUIPMENT:-

During the PREs' meeting held on 8<sup>th</sup> May, 2003 in the office of the PSE(M), it was recommended that road maintenance fleet be strengthened by purchasing supervisory vehicles, tippers, graders, dozers, loaders etc so that by the end of three years districts and provinces will be having optimum fleet holding.

The progress achieved towards this end is as follows:

- i) The following were bought and issued out on a priority basis to districts/provinces on 22<sup>nd</sup> September, 2003. The Minister officiated at the flagging off ceremony.

➤ 4 WD Isuzu Pick – Ups

- 22 No. issued to 22 districts as listed below

|     | <b>District</b> | <b>No.</b> |
|-----|-----------------|------------|
| 1.  | Busia           | 1          |
| 2.  | Meru central    | 1          |
| 3.  | Mwingi          | 1          |
| 4.  | Mbeere          | 1          |
| 5.  | Nandi South     | 1          |
| 6.  | Narok           | 1          |
| 7.  | Bondo           | 1          |
| 8.  | Nyamira         | 1          |
| 9.  | Laikipia        | 1          |
| 10. | Nyandarua       | 1          |
| 11. | Turkana         | 1          |
| 12. | Kisii Central   | 1          |
| 13. | Nyeri           | 1          |
| 14. | Kuria           | 1          |
| 15. | Muranga         | 1          |
| 16. | Maragwa         | 1          |
| 17. | Tharaka         | 1          |
| 18. | Butere/Mumias   | 1          |
| 19. | Meru North      | 1          |
| 20. | Gucha           | 1          |
| 21. | Kitui           | 1          |
| 22. | Machakos        | 1          |

➤ Land Rover Pick – Ups

- 2 No. issued to Ijara and Garissa.

➤ Land Rovers S.Wagon TDI

- 4 No. issued to PWOs N.E, Nairobi Western & Rift Valley.

➤ Graders

- 3 No. issued to Central, Western and Nyanza

ii) There are 42 pieces of equipment which have been purchased and issued.

➤ 14 No. 4WD Isuzu Pick – Ups for Districts.

These will be distributed as follows:-

| <u>District</u> | <u>No</u> |
|-----------------|-----------|
| 1. Turkana      | 1         |
| 2. Suba         | 1         |
| 3. T. Nzoia     | 1         |
| 4. Nandi North  | 1         |
| 5. Trans Mara   | 1         |
| 6. Nakuru       | 1         |
| 7. Lamu         | 1         |
| 8. Moyale       | 1         |
| 9. Makueni      | 1         |
| 10. Migori      | 1         |
| 11. Teso        | 1         |
| 12. Bureti      | 1         |
| 13. Marsabit    | 1         |
| 14. Kajiado     | 1         |

➤ 13 No. 4T Mitsubishi Trucks for Resealing Units as follows

| <u>Unit</u>                           | <u>No.</u> |
|---------------------------------------|------------|
| 1. Mariakani (Resealing Unit)         | 1          |
| 2. Ngubi (Resealing Unit)             | 1          |
| 3. Narok (Resealign Unit)             | 1          |
| 4. Gilgil (Resealing Unit)            | 1          |
| 5. Suneka (Resealing Unit)            | 1          |
| 6. Ahero (Resealing Unit)             | 1          |
| 7. Chavakali (Resealing Unit)         | 1          |
| 8. Webuye (Resealing Unit)            | 1          |
| 9. Gakoromone (Resealing Unit)        | 1          |
| 10. Makutano (Maragwa) Resealing Unit | 1          |
| 11. Kisumu (Resealing Unit)           | 1          |

- 12. Kapenguria (Road Construction Unit) 1
- 13. Embu (Resealing Unit) 1

➤ 15 No. 2WD Mitsubishi Pick – Ups for Resealing Units as follows:-

|     | <b>District</b>             | <b>No</b> |
|-----|-----------------------------|-----------|
| 1.  | Mariakani Resealing Unit    | 1         |
| 2.  | Bungoma Resealing Unit      | 1         |
| 3.  | Ngubi Resealing Unit        | 1         |
| 4.  | Narok Resealing Unit        | 1         |
| 5.  | Gilgil Resealing Unit       | 1         |
| 6.  | Embu Resealing Unit         | 1         |
| 7.  | Kericho Resealing Unit      | 1         |
| 8.  | Suneka Resealing Unit       | 1         |
| 9.  | Ahero Resealing Unit        | 1         |
| 10. | Chavakali Resealing Unit    | 1         |
| 11. | Webuye Resealing Unit       | 1         |
| 12. | Gakoromone Unit             | 1         |
| 13. | Makutano (Maragwa)          | 1         |
| 14. | Nakuru (Road Marking Unit)  | 1         |
| 15. | Nairobi (Road Marking Unit) | 1         |

- iii) Procurement for another Seven – Ten graders is in process.
- iv) Procurement for 2 lorries for the Resealing Units is in process.

### III. RESEALING/ROAD MARKING UNITS

To enhance patching/resealing works, the following has been done, and a big impact has been realized on the ground: -

- i) The Provincial Roads Engineers are now in direct control of the Resealing Units unlike before when the Units were reporting directly to the head office.
- ii) The number of Resealing Units has been increased from 8 to 26 including the provincial based ones. These are as follows:-

| <u>Item No.</u> | <u>District</u> | <u>Unit</u>                       |
|-----------------|-----------------|-----------------------------------|
| 1.              | Uasin Gishu     | Resealing Unit 1 (Eldoret)        |
| 2.              | Kiambu          | Resealing Unit II (Ngubi)         |
| 3.              | Machakos        | Resealing Unit III (Sultan Hamud) |
| 4.              | Kericho         | Resealing Unit IV (Kericho)       |
| 5.              | Nakuru          | Resealing Unit V (Gilgil)         |
| 6.              | Mombasa         | Resealing Unit VI (Miritini)      |
| 7.              | Muranga         | Resealing Unit VII (Sagana)       |
| 8.              | Koibatek        | Resealing Unit VIII (Makutano)    |
| 9.              | Bungoma         | Resealing Unit IX (Webuye)        |
| 10.             | Kisumu          | Resealing Unit X (Ahero)          |
| 11.             | Kisii Central   | Resealing Unit XI (Suneka)        |
| 12.             | Meru Central    | Resealing Unit XII (Gakoromone)   |
| 13.             | Narok           | Resealing Unit XIII (Narok)       |
| 14.             | Vihiga          | Resealing Unit XIV (Vihiga)       |
| 15.             | Machakos        | Resealing Unit XV (Athi River)    |
| 16.             | Nairobi         | Emergency Resealing Unit (Ngong)  |

| <u>Item No.</u> | <u>Province</u>   | <u>Unit</u>               |
|-----------------|-------------------|---------------------------|
| 1.              | PWO Nairobi       | Provincial Resealing Unit |
| 2.              | PWO Central       | Provincial Resealing Unit |
| 3.              | PWO Coast         | Provincial Resealing Unit |
| 4.              | PWO Eastern       | Provincial Resealing Unit |
| 5.              | PWO Nyanza        | Provincial Resealing Unit |
| 6.              | PWO North Eastern | Provincial Resealing Unit |
| 7.              | PWO Western       | Provincial Resealing Unit |



- |     |                     |                                                                                                          |
|-----|---------------------|----------------------------------------------------------------------------------------------------------|
| 8.  | PWO Rift Valley     | Provincial Resealing Unit.                                                                               |
| 9.  | West Pokot District | West Pokot Maintenance Unit<br><i>(Patching and Maintenance of<br/>Kitale-Kapenguria-Kainuk Road)</i>    |
| 10. | Turkana District    | Turkana Road Maintenance Unit<br><i>(Patching and Widening of Kainuk –<br/>Lodwar – Lokichogio Road)</i> |

- iii) The number of Road Marking Units have been increased from 1 to 3 ie Nairobi, Nakuru and Ahero.
- iv) Resealing/Patching works have been zoned so that various units can be grouped together for easier operational and financial management.

#### **IV. FUNDS ISSUED DURING THE YEAR AND WORK ACHIEVED**

Out of the KSh.1,808,855,090 budgetary provision for the current year, KSh.727,388,870 has been issued upto the third tranche stage and used for road maintenance activities including patching, resealing, routine maintenance, grading, drainage works and purchasing of materials. The attached table gives the breakdown of activities carried out on the various roads as indicated under the respective provinces.

The following is just an indicator of some of the achievements to-date as the works are still ongoing:-

##### **A. POTHOLE PATCHING**

##### **i) Nairobi Province**

Thika Road (A2)  
Mombasa road (A104)  
North Airport Road (B10)  
Limuru road (C62)  
Langata Road (C58)  
Ngong Road (C60)  
Naivasha Road (C61)

ii) Central Province

Muthaiga – Githurai (A2)  
Githurai – Sigana (A2)  
Marua – Naru Moru (A2)  
Thika – Ngoliba (A3)  
Nairobi- Limuru (A104)  
Nyeri – Nyahururu (B5)  
Makutano – Kibibi (B6)  
Gilgil – Nyahururu (C77)  
Sagana – Kutus (C73)  
Kutus – Karatina (C74)  
Nyeri – Othaya (C70)  
Thika – Gatukuyu (C60)  
Thika – Gatanga (C67)  
Kikuyu – Wangige (C63)  
Muthaiga – Kiambu (C64)  
Kamandura – Mai Mahiu (C88)

iii) Coast Province

Mombasa – Kilifi (B8)  
Likoni – Kenya Navy (C109)  
Airport Road (C110)  
Miritini – Maji ya Chumvi (A109)  
Matsangoni – Kurawa (B8)

iv) Eastern Province

Thika DB – Ukatse (A3)  
Nanyuki – Isiolo (A2)  
Embu – Kangonde (B7)  
Embu DB – Meru (B6)

v) North Eastern Province

Nil

vi) Nyanza Province

Roads not indicated, but reports base and surface repairs.

vii) Rift Valley Province

Kyongong – Sigor (C14) – gravel patching  
KCC – Ndanai (C15) – gravel patching  
Kilgori – Nyangusu (C17)  
DB Kuria – Lolgorian (C13)  
Km 0 – Km 23+00 (A1)  
Nakuru – Kibunga – Total (A104)  
Makurato – Kamara – Kibunga (A104)  
Timboroa – Hill Tee (A104)  
Mosoriot – Kosirai (C39)  
Loturere – Napelium (A1)  
Nakuru – Naivasha (A104)  
Mai Mahiu – Nairagie Ngare (B3)  
Kasambale – Gilgil – Moredat – Nakuru (A104)  
Junc. A104 – Solai (B5)  
Gilgil – Nyandarua DB (C77)  
Greensted – Kinungi (A104)  
Kariandus – Junc. B4 (A104)

viii) Western Province

Kisumu DB – Kakamega – Webuye (A1)  
Turbo – Webuye – malaba (A104)  
Kamukayara – Chwele (C42)

B. BUSH CLEARING

About six months ago, an 'emergency' nation-wide exercise was carried out on bush clearing on Trunk Roads to improve visibility, and hence safety along the major road corridors.

This was carried out using force account at very economical rates, about 20cts/m<sup>2</sup> compared to the earlier contracted KSh.2.50.

The impact was enormous and this has now been made a routine exercise.

i) Nairobi Province

Thika Road (A2)  
Limuru Road (C62)  
Langata Road (C58)  
Naivasha road (C61)

ii) Central Province

Roads A104, B3, C62, C63, C64, C66, C72, C70, C71, A1, B5, C75, C74, A2, A3, C61, C77.

iii) Coast Province

Mombasa – Kilifi (B8)  
Miritini – Maji ya Chumvi (A109)  
Voi Loop (C105)  
Matsangoni – Kurawa (B8)

iv) Eastern Province

Thika DB – Ukatse (A3)  
Nanyuki – Isiolo (A2)  
Embu – Kangonde (B7)  
Embu – Meru (B6)  
Ugweri – Kanyuambora (C92)  
Emali – Ukia (C99)  
Itangini – Thwake Rivr (C101)

v) North Eastern Province

Garissa – Kitui DB (A3)  
Mandera – Elwak (B90)

vi) Nyanza Province

Kisian-Bondo (C27)  
Luanda-Siaya (C29)

Kisumu-Muhoroni (C34)  
Kiboswa-Daraja Mbili (C86)  
Kochok-Patel Flats (C84)

vii) Rift Valley Province

Lolgorian – Kuria DB (C13)  
Kilgoris – Lolgorian (C17)  
Km 0 – Km 10 (A1)  
Nakuru – Salgaa (A104)  
Awasi – Mau Summit (B1)  
Keriocho – Sotik (C23)  
Turbo – Eldama Ravine (A104)  
Kakongu – Kalemwngork (A1)  
Kokuro – Naromputh (A1)  
Junc. B5 – Rumuruti (C77)

vii) Western Province

Kisumu DB – Kakamega – Webuye (A1)  
Turbo – Webuye – Malaba (A104)  
Mayoni – Korinda (C31)  
Ekeru – Chwele (C33)  
Majengo – Luanda (C38)  
Chavakali – Nandi DB (C39)  
Kakamega – Ekeru (C40)

C. GRADING

i) Nairobi Province

North Airport Road (B10) – Shoulders  
Limuru Road (C62) – Shoulders  
Naivasha Road (C61) - Shoulders

ii) Central Province

Gatura – Kiarutara Road (C67)  
Ichaweri – Kibichoi Road (C64)  
Maragua River – Karutu (C70)

Kagumo area (C74)  
Njabini – Thika DB (C67)  
Laikipia DB – Junc. B5. (C76)

iii) Coast Province

Kakuyuni – Kakoneni (E103)

iv) Eastern Province

Ugweri – Kanyumbora (C92)  
Isiolo – Archers' Post (A2)  
Emali – Ukia (C99)  
Itangini – Thwake River (C101)

v) North Eastern Province

Garissa – Mado Gashe Road (C81)  
Mado Gashe – Wajir Road (B9)

vi) Nyanza Province

Various with a total of 239Km,

vii) Rift Valley Province

Kyogo – Sigor (C14)  
KCC – Ndanai (C15)  
Murgo – Lolgorian (C17)  
D.B. Kuria – Lolgorian (C13)  
Lochiwangamata – Lokichar (A1)  
Lokori – Lokochar (C46)  
Makutano (A1) – Kibish (C47)

viii) Western Province

A total of 100,000m<sup>2</sup> indicated but no list.

#### IV) ROAD MARKING

Sections of the roads shown below have been marked:-

Muthiga – Kangemi (A104)  
Kitengela Township (A104)  
Mulolongo – Weighbridge (A104)  
Athi River – Namanga Junction (A104/A109)  
Muthaiga – Globe (Bump painting)  
JKIA – Westlands (A104)  
Maina – Ol Jabet (C77)  
Tandare – Kwa Wanjiku (C51)

#### V) OTHER ACTIVITIES

Some other activities have been/are being carried out such as:-

- Clearing/Installation of culverts
- Cleaning of side/mitre drains
- Protection works
  
- Heavy Grading Of Isiolo – Moyale Road (A2)

Because of the very bad condition of this 514- km road, especially between Moyale and Marsabit, Nairobi-bound vehicles from Moyale have been using the Moyale-Wajir-Garissa-Nairobi route, making the journey longer by about 200Km.

Towards improving this road, the PWO was issued with money (KSh.12.8m) to carry out heavy grading on this road instead of the money being given to the districts which the road traverses namely Isiolo, Samburu, Marsabit and Moyale.

The PWO hired three graders from CM&TE. These together with two more from the province are already working on the road. One of the graders is working from Moyale, whereas the other is working between Merille and Marsabit. The three from CM&TE are working from Isiolo. So far over 130 km has been graded from Isiolo and the vehicles from Marsabit/Moyale no longer go through Garissa.

