



INVITATION TO TENDER

ADDENDUM No. 2

IMPLEMENTATION OF ARID AND SEMI - ARID LAND (ASAL) RURAL ROADS PROJECT

(1) REHABILITATION AND IMPROVEMENT AND PERFORMANCE BASED ROUTINE MAINTENANCE, &

(2) LOW VOLUME SEALING, AND PERFORMANCE BASED ROUTINE MAINTENANCE FOR VARIOUS ROADS.

Reference is made to the Tender Notice that appeared in the Authority's website and the Local Dailies dated 19th January, 2024 and Addendum No. 1 that appeared on 14th February, 2024 on the Authority's website as well as the PPIP Portal.

1. The Authority has received various requests for clarification and interested bidders are requested to note as detailed in the table below;

No.	Item	Clarifications Requested	Tender No.	Response
1	<u>Invitation to tenderers: Evaluation Criteria (4):</u> Have at least one Director and two Technical Supervisors who have been trained on gravel works Labour Based course from Kenya Institute of Highways and Building Technology (KIHBT) or Kisii Training Centre (KTC)	If director or supervisor has been trained on low volume Labour Based course from Kenya Institute of Highways and Building Technology (KIHBT) or Kisii Training Centre (KTC), do they qualify to bid for gravel works having not trained on gravel works but trained on Low Volume Labour Based course?	All tenders (Gravel & LVS Tenders)	Bidders for gravel roads require the Gravel Training certificates while bidders for LVS roads require the Low Volume Labour Based Training certificates.
2	<u>TDS -ITT 16.7</u> The Employer will assist in initiating the process of tax exemption certificate for VAT. Bidders should note that the withholding income tax (3%) will apply as per the law.	Are the contracts VAT exempt?	All tenders (Gravel & LVS Tenders)	The contract is NOT VAT exempt until it is granted by Kenya Revenue Authority (KRA). The bidders should include VAT in their Tender as outlined in the form of tender and the Bills of Quantity.
3	01-60-002: Clearance on Completion 01-60-003: Insurance and Securities	The quantity indicated in the BoQ is erroneous	All gravel contracts in Laikipia, Meru and Tharaka Nithi	The error has been corrected. The unit for both items is "Lumpsum" thus Quantity is one (1).

No.	Item	Clarifications Requested	Tender No.	Response
				<i>The revised BoQ is attached as Annex 1 herewith.</i>
4	01-60-007: Provision of site sanitation facility 01-60-006: Drinking Water	The unit in BoQ provided is Lump Sum. Can it be revised to month, to be same as drinking water?	All tenders (Gravel & LVS Tenders)	The unit has been revised to “Lumpsum” , as per the specifications. <i>The revised BoQ is attached as Annex 1 herewith.</i>
5	Bill 9 09-50-004: Traffic Control	Quantity provided for 8 Months which does not match the construction period of 12 months.	All tenders (Gravel & LVS Tenders)	<i>The unit has been revised to “Lumpsum” as per the specifications.</i> <i>The revised BoQ is attached as Annex 2 herewith.</i>
5b	09-50-004: Specifications	Measurement and Payment The unit is in months to be changed to lump sum	AFD/EU/LKP/ LVS /1/2023/24 AFD/EU/ME/LVS/1/2023/24 AFD/EU/ TN/LVS/1/2023/24 AFD/EU/LKP/GR/1/2023/24 AFD/EU/LKP/GR/2/2023/24 AFD/EU/LKP/GR/3/2023/24 AFD/EU/ME/GR/1/2023/24 AFD/EU/ME/GR/2/2023/24 AFD/EU/ TN/GR /1/2023/24 AFD/EU/ TN/GR /2/2023/24	<i>Amend to read</i> <i>Measurement Unit: Lump Sum as a percentage of the physical progress done monthly, upon the approval of the Engineer that satisfactory control measures are in place.</i>
6	Section IX: Special Conditions of Contract GCC 49.1	The clause states that Advance Payments shall be 20% for LVS and 10% for gravel of the Contract Sum and shall be paid to the Contractor no later than [N/A]. Please clarify if advance payment shall be granted for as per the statement?	All tenders (Gravel & LVS Tenders)	Advance Payment shall be paid. <u>Special Conditions of Contract Clause GCC 49.1</u> has been reviewed for all tenders to be as follows; Gravel Road Contracts: <i>The Advance Payments shall be: 10% of the Contract Amount and shall be paid to the Contractor no later than 60 days.</i> LVS Road Contracts: <i>The Advance Payments shall be: 10% of the Contract Amount and shall be paid to the Contractor no later than 60 days.</i>
7	Section 14: Cement, Lime and Emulsion Treated Subbase & Base	Please clarify if the cement to be used is Ordinary Portland Cement (CEM 1 - 42.5N/mm ² complying to KS EAS 18-1)?	AFD/EU/SA/LVSR/03/2023-24	Specifications for cement to be used in Section 14 will be Ordinary Portland Cement (32.5N/mm² mortar strength)

No.	Item	Clarifications Requested	Tender No.	Response
8	16-60-002: Provision of Cold Mix Asphalt	The Bill Item states that “Provide, mix, place and compact Cold Asphalt Mix to include provision and spraying of Anionic Emulsion bitumen A4-60% tack coat with 1:6 dilution at a spray rate of 1.0-1.2litres/m2. All inclusive” For purposes of pricing, can the tack coat be separated as an independent bill item as opposed to an all-inclusive item?	All LVS Tenders	The item remains all-inclusive, as outlined in the specifications.
9	Specifications. Clause 1703(D) - Concrete Works (Class 25/20)	The Specifications indicate concrete Class 25/20 whereas the BoQ in 17-80-007b states as follows; Provide, place and compact concrete Class 30/20 for the Box Culvert. For purposes of pricing, please clarify the concrete class to use in all Box Culverts	AFD/EU/SA/LVSR/03/2023-24	Concrete class 30/20 will be used on Box Culverts (slabs and walls) and drifts(slab). <i>The specifications for concrete class 30/20 has been is attached as Annex 3 herewith.</i>
10	Section II: Tender Data Sheet (TDS)	Provide proof of overall financial soundness (attach bank statements, letter of credit & signed and stamped audited accounts for the last 5 years). Can this be revised to 2 or 3 years?	All tenders (Gravel & LVS Tenders)	Proof of overall financial soundness signed and stamped audited accounts has been revised to 3 years. Interested bidders should therefore provide Audited Accounts for the last 3 years. A letter of credit should be current (within 6 months from the date submission) and should be specific to the project.
11	Section II: Tender Data Sheet (TDS) Clause ITT13.1 (h)	Current Certificate of registration with National Construction Authority in the Category “NCA 6 or 7”. Can the category please be revised to include NCA 5, 6 &7 for fair competition and broaden the band?	All gravel Tenders	The category remains as NCA 6 or 7. <i>However, a valid NCA practicing license will be required to be submitted together with the NCA Certificate.</i>
12	Lump sum Items 01-06-002 and 01-06-003 Items 01-06-004 (prime cost sum) and 04-50-010 (provisional sum)	No quantity has been provided	AFD/EU/TN/LVS/1/2023/24 ITUGURURU KAMAENDE BATCH 1	The Bill of quantities have been revised. <i>The revised BoQ is attached as Annex 1 herewith.</i>
12b	04-50-010 (provisional sum)	No quantity has been provided	AFD/EU/TN/LVS/1/2023/24	The Bill of quantities have been revised.

No.	Item	Clarifications Requested	Tender No.	Response
12 c	Bill 8	Some rates have been indicated	ITUGURURU KAMAENDE BATCH 1	<i>The revised BoQ is attached as Annex 4 herewith.</i>
13	Bill item 01-08-144 for security (PC Sum)	No quantity has been provided	AFD/EU/ME/GR/1/2023/24 KACHULU - GOTU	The Bill of quantities has been revised and errors corrected. <i>The revised BoQ is attached as Annex 1 herewith.</i>
13b	Bill 8 - items	Some rates have been indicated	AFD/EU/ME/GR/1/2023/24 KACHULU - GOTU	The Bill of quantities has been revised and errors corrected. <i>The revised BoQ is attached as Annex 5 herewith.</i>
14	Lump sum items number 01-06-002, and 01-06-003 Item 01-06-004 (PC sum)	No quantity has been provided	AFD/EU/LKP/ LVS /1/2023/24: MIRERA - MALLE	The Bill of quantities has been revised to indicate the quantities. <i>The revised BoQ is attached as Annex 1 herewith.</i>
15	Lump sum items No. 01-06-002 and 01-06-003 Item 01-06-004 (PC sum)	No quantity has been provided	AFD/EU/ME/LVS/1/2023/24 ISIOLO - MURIRI	The Bill of quantities has been revised to indicate the quantities. <i>The revised BoQ is attached as Annex 1 herewith.</i>
16	<u>Bill of Quantities</u> <u>Bill no 25</u> <u>Bill no 26</u>	The quantity indicated in the BoQ is erroneous for lump sum items	AFD/EU/LKP/LVS/1/2023/ 24 AFD/EU/ME/LVS/1/2023/24 AFD/EU/TN/LVS/1/2023/24 AFD/EU/LKP/GR/1/2023/24 AFD/EU/LKP/GR/2/2023/24 AFD/EU/LKP/GR/3/2023/24 AFD/EU/ME/GR/1/2023/24 AFD/EU/ME/GR/2/2023/24 AFD/EU/ TN/GR /1/2023/24 AFD/EU/ TN/GR /2/2023/24	The Unit for this item is “ Lumpsum ” and thus the quantity is one (1). <i>The revised BoQ is attached as Annex 6 herewith.</i>
17	<u>Bill of Quantities.</u> Bill No. 1: Preliminary and General Items	The projects that are in areas that are insecure and will have problems with labour. We request introduction of an item in Bill 1 for mobilization and setting up camp for the contractor?	All Tenders	Refer to; Specifications; Section 01: Preliminary and General Items, Item 01-50-001: Mobilization and Establishment of the site.
18	<u>Bill of Quantities.</u> Bill No.5: Earthworks Bill Item 05-50-016	Request for clarification of the Bill Item to avoid ambiguity of works to be undertaken	TENDER No.: AFD/EU/ TN/LVS/1/2023/24 ITUGURURU- KAMAENDE ROAD	For clarity, the description has been amended to read as follows: Scarify water and compact existing ground (Including ripping off any bituminous material and breaking it into pieces) to at least 95%MDD (AASHTO T180) to a depth of 150mm below

No.	Item	Clarifications Requested	Tender No.	Response
				ground level. <i>The revised BoQ is attached as Annex 7 herewith.</i>
19	<u>Bid Guarantee (ITT 21.1)</u>	Clarify if a bank guarantee is applicable as bid security? If it's applicable, kindly amend the TDS accordingly	All tenders (Gravel & LVS Tenders)	<p>Bank Guarantee is applicable as a bid security as outlined in the Instruction to Tenderers clause 21.2.</p> <p>Amend TDS Clause ‘21.1’ and ‘ITT 21.2(d)’ and <i>Qualification Criteria (QC) A (1)</i> by revising the statement</p> <p>(TDS Clause 21.1) - “A Tender Security shall be required from an insurance company registered and licensed by the Insurance Regulatory Authority”</p> <p>(QC) A (1) - “A Tender Security shall be a guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority and listed by the authority. N/B This form of tender security (tender bond) is not applicable; bidders that submit it to be disqualified”</p> <p>and replace with;</p> <p>“A Tender Security shall be required and shall be a demand guarantee in any of the forms given under ITT 21.1 at the Tenderer's option”</p> <p>Delete ITT 21.2(d).</p>
20	<u>Evaluation Criteria</u> <u>B. Detailed Evaluation Criteria</u> <u>Table 3: 3.2(a)</u>	Participation as contractor, management contractor or subcontractor, in at least Two (2) contracts with a value of at least Kshs. 20Million within the last Five (5) Years that have been successfully and substantially	All tenders (Gravel & LVS Tenders)	The criteria has not debarred any interested bidder to table his experience if it is less than 5 years. It indicates experience within the last five (5) years.

No.	Item	Clarifications Requested	Tender No.	Response
		completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in the Scope of Works) Request for bidders who have less than 5 years be considered.		
21	Is there possibility of client doing boreholes in areas of water scarcity e.g.at Gotu and Ilpolei?		AFD/EU/LKP/GR/2/2023/24 AFD/EU/LKP/GR/3/2023/24 AFD/EU/ME/GR/1/2023/24	<i>Please refer to preamble of Bill of quantities item (8).</i> The contractor is responsible for providing water for construction works
22	Are there Security arrangements in Gortu?		AFD/EU/ME/GR/1/2023/24	Please refer to BoQ item No. 01-80-144
23	Are there security issues in Ilpolei in Laikipia county?		AFD/EU/LKP/GR/2/2023/24 AFD/EU/LKP/GR/3/2023/24	There are no serious insecurity issues in Ilpolei - Kimanjo road in Laikipia County
24	The client needs to confirm on the status of land acquisition in Itugururu - Kamaende Section near the Air Strip		AFD/EU/TN/LVS/1/2023/24	The client through County Government has settled land acquisition issues
25	Form of tender needs the tenderer's letter head, can the tenderer typeset the form of tender separately due to space?		All tenders (Gravel & LVS Tenders)	It is okay to type set the form of tender as per the instructions. Changing of the format and content will however lead to disqualification.
26	Does the beneficial ownership form need to be submitted during Tendering or after award?		All tenders (Gravel & LVS Tenders)	The Beneficial ownership forms are not to be filled during bidding. They will be submitted upon receipt of intent to enter into contract – (form of tender XX1)
27	Tender No.: AFD/EU/LKP/GR/1/2023/24 Page 65: Bill of Quantities Section 26- PBRM Clarify the length of road that will be considered under PBRM.		AFD/EU/LKP/GR/1/2023/24	Section 26- PBRM Length of road revised to 7 km
27b	Bill item 10.60.001	The bill quantity is different from the one in the implementation plan	AFD/EU/LKP/GR/1/2023/24	The Bill of quantities has been revised to indicate the quantities. <i>The revised BoQ is attached as Annex 8 herewith.</i>

No.	Item	Clarifications Requested	Tender No.	Response
28	Tender No. AFD/EU/ TN/GR /2/2023/24	The road name reads as Matiri - Kamarandi Road in the invitation to tender but Matiri – Kamanyaki in the tender document. Which is correct name of the road?	AFD/EU/ TN/GR /2/2023/24	AFD/EU/ TN/GR /2/2023/24 MATIRI – KAMANYAKI BATCH 1 as per the Tender Document.
29	Evaluation Criteria B. Detailed Evaluation Criteria Table 3: 5.1	With regard to the size of the works, can the site agents having a qualification minimum of Higher Diploma with the required training be considered instead of site agent with Bsc Civil Engineering with the required training?	All tenders (Gravel & LVS Tenders)	Item No. 5.1 on Site Agent Qualification given under Table 3 on Technical & Financial Evaluation (Part B of Detailed Evaluation Criteria) is hereby revised to read as follows; 5.1 Site Agent qualification; Qualification = Diploma in Civil Eng. General Experience= 5yrs, Specific Experience = 3 Yrs
30	14-50-001: Provide and Transport to site Cement Stabilizer 14-50-002: Provide and Transport to site Lime Stabilizer	What is the percentage of cement / lime to be used and on what thickness?	AFD/EU/ TN/LVS/1/2023/24 ITUGURURU KAMAENDE	The percentage of lime and cement to be determined on site by the Engineer. Thickness of Hydraulic Improve Gravel (HIG) 160 Base is 125mm.
31	14-50-003: Provide and Transport to site Bitumen Emulsion (A4-60)	What is the percentage of emulsion A4/60 to be used and on what is the quantity?	AFD/EU/LKP/ LVS /1/2023/24 MIRERA - MALLE BATCH 1	A4-60 will not be used in the base works
32	BOQ repetition of VAT& Contingency in the Gravel roads In Laikipia	There seems to be a repetition on the issues of contingencies and VAT. Please advise on the above-mentioned matter.	AFD/EU/LKP/GR/3/2023/24 AFD/EU/LKP/GR/2/2023/24	The VAT and Contingency component are for Improvement works and Performance based maintenance components of the works
33	Road Name: Sololo Town-Mado Adhi-Wayegodda (4.3 Km)	The following errors noted; -The title for summary pages read ‘Area 2 Isiolo County - The BoQ has 4 different summaries. However, the Form of Tender provides for only two spaces to fill in; i) Improvement Works and ii) PBRM. Please clarify this disparity	AFD/EU/MA/GR/02/2023-24.	The errors in the document reading Isiolo County have been corrected to read Marsabit County. <i>The revised BoQ is attached as Annex 9 herewith.</i> The BoQ for this tender has been prepared into two sections; 1. Km 0+000 to Km 1+000 (Improvement works and PBRM) 2. Km 1+000 to Km 3+300 (Improvement works and PBRM)

No.	Item	Clarifications Requested	Tender No.	Response
				The total to be forwarded into the Form of Tender should be the sum of the respective improvement works and PBRM for the entire 4.3kms.
34	Road No: C605 – 01C Road Name: Baragoi-Masikita-Sereolipi (10 Km) Section VII: Bill Of Quantities		AFD/EU/SA/GR/01C/2023-24	The detailed BoQ for the 30m Non-Vented Drift, 6m wide at Km 29+700 has been added and is <i>attached as Annex 10 herewith</i> .
35	ITT 24.1 submission and opening date	Bidders requested extension of time for submission of bids to allow more time in preparation of bids.	All tenders (Gravel & LVS Tenders)	Submission and Tender Opening has been revised and shall be on or before 5th March 2024 at 11.00am. The submission location will be at the respective KeRRA Regional Offices
36	Evaluation Criteria B. Detailed Evaluation Criteria Table 3: 3.1 General Construction Experience	Consideration of the General Construction Experience Period	All tenders (Gravel & LVS Tenders)	Amend Item No. 3.1 on General Construction Experience Qualification given under Table 3 on Technical & Financial Evaluation (Part B of Detailed Evaluation Criteria) <i>by deleting the statement</i> <i>“Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last five (5) years prior to the applications submission deadline”</i> <i>and replace with;</i> <i>“Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last three (3) years prior to the applications submission deadline”</i>

No.	Item	Clarifications Requested	Tender No.	Response
37	Evaluation Criteria B. Detailed Evaluation Criteria Table 3: 3.2(a)	Consideration of the value of similar works of a value of at least KShs. 100 million within the last Five (5)	All Tenders for LVS (Not Applicable to Gravel Works Tenders)	<p>Amend Item No. 3.2 (a) on Specific Construction Experience Qualification given under Table 3 on Technical & Financial Evaluation (Part B of Detailed Evaluation Criteria)</p> <p><i>by deleting the statement</i></p> <p><i>“Participation as contractor, management contractor or subcontractor, in at least Two (2) contracts with a value of at least KShs. 100 million within the last Five (5) Years that have been successfully and substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in the Scope of Works)</i></p> <p><i>For subcontracted Works the Bidder should provide the following:</i></p> <ul style="list-style-type: none"> <i>• Award letter of the Main Contract</i> <i>• Award letter of the subcontract</i> <i>• Completion letter of the Subcontract</i> <p><i>Proof of payment (attach payment certificates and certified bank statements indicating proof of payment) Certified by a Commissioner of Oath”</i></p> <p>and replace with;</p> <p><i>“Participation as contractor, management contractor or subcontractor, in at least Two (2) contracts with a value of at least KShs. 60 million within the last Five (5) Years that have been successfully and</i></p>

No.	Item	Clarifications Requested	Tender No.	Response
				<p><i>substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in the Scope of Works)</i></p> <p><i>For subcontracted Works the Bidder should provide the following:</i></p> <ul style="list-style-type: none"> • <i>Award letter of the Main Contract</i> • <i>Award letter of the subcontract</i> • <i>Completion letter of the Subcontract</i> <p><i>Proof of payment (attach payment certificates and certified bank statements indicating proof of payment) Certified by a Commissioner of Oath”</i></p>
38	Evaluation Criteria B. Detailed Evaluation Criteria Table 3: 3.2(a)	Consideration of the value of similar works of a value of at least KShs. 20 million within the last Five (5)	All Tenders for Gravel Works (Not Applicable to LVS Tenders)	<p>Amend Item No. 3.2 (a) on Specific Construction Experience Qualification given under Table 3 on Technical & Financial Evaluation (Part B of Detailed Evaluation Criteria)</p> <p><i>by deleting the statement</i></p> <p><i>“Participation as contractor, management contractor or subcontractor, in at least Two (2) contracts with a value of at least KShs. 20 million within the last Five (5) Years that have been successfully and substantially completed. and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in the Scope of Works)</i></p> <p><i>For subcontracted Works the Bidder should provide the following:</i></p>

No.	Item	Clarifications Requested	Tender No.	Response
				<ul style="list-style-type: none"> • Award letter of the Main Contract • Award letter of the subcontract • Completion letter of the Subcontract <i>Proof of payment (attach payment certificates and certified bank statements indicating proof of payment) Certified by a Commissioner of Oath</i> <p>and replace with;</p> <p><i>“Participation as contractor, management contractor or subcontractor, in at least Two (2) contracts with a value of at least KShs. 10 million within the last Five (5) Years that have been successfully and substantially completed.</i></p> <p><i>For subcontracted Works the Bidder should provide the following:</i></p> <ul style="list-style-type: none"> • Award letter of the Main Contract • Letter of the subcontract • Completion letter of the Subcontract <i>Proof of payment (attach fully signed and stamped payment certificates</i>
39	Special specification CI 25-50-002 Measurement and Payments for Environmental & social Mitigation	A tool to measure Compliance has been introduced	All Tenders	special specifications clause 25-50-002 add Environmental and social Impact compliance tool as Annex 11 herewith

- Full details of the Clarification Response will be available as from 19th February, 2024 and eligible and interested bidders can download the response from Authority’s website **www.kerra.go.ke** and or **www.tenders.go.ke** as from then.
- The submission dates for Tenders for **(1) The Rehabilitation and Improvement and Performance Based Routine Maintenance, (2) Low Volume Sealing, and Performance Based Routine Maintenance** for the various roads is hereby revised from 29th February, 2024 to **on or before 5th March, 2024 at 11.00am.**

4. Completed tender documents should be enclosed in plain sealed envelope, clearly marked with the Tender Name, Tender Number and **deposited in the Tender Boxes at the offices of the respective Regional Directors** as indicated in the Initial Invitation Notice or be addressed and posted to the respective regional addresses Indicated in the same Initial Invitation Notice.
5. Bids not received at the submission venue by the closing time will not be accepted for opening and will be rejected and returned unopened.
6. Bidders with enquiries are encouraged to do so vide the email address **procurement@kerra.go.ke**.
7. Bidders are advised to regularly visit the KeRRA website for any information/addendums on the above tender.
8. All other information remains the same.

Deputy Director (Supply Chain Management)

For: Director General

Kenya Rural Roads Authority

ANNEX 1
(Bill 1 – All Gravel & LVS contracts)

ROAD NAME:	Gotu-Merti 01A (10Km)				
ROAD No.:	C340 - 01A				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1 No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Gotu-Merti 01B (10Km)				
ROAD No.:	C340 – 01B				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Isiolo - Mlango Road-01A (10Km)				
ROAD No.:	C342 - 02A				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	ISIOLO - MLANGO-OLDONYIRO (10 km)				
ROAD No.:	C342 - 02B				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Kinna-Rapsu (8km)				
ROAD No.:	E4288 - 03				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Logologo-Korr 01 (10Km)				
ROAD No.:	E4299 – 01				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump Sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 – a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 – a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 – a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	20,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	A2-Manyatta Jillo (7.2km)				
ROAD No.:	G41188-03				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump Sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	20,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Sololo-Mado Adhi (for entire section, 4.3Km)				
ROAD No.:	G412182 - 02				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	8.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1 No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Baragoi-Masikita 01A (10Km)				
ROAD No.:	C605 - 01A				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	20,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Baragoi-Masikita 01B (10Km)				
ROAD No.:	C605 - 01B				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME	Baragoi-Masikita 01C (10Km)				
ROAD No.:	C605 - 01C				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Maralal-Opiroi-Barsaloi 01 (10Km)				
ROAD No.:	C606 - 01				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Kshs. 300,000 for Engineers miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Sureties	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC Sum	1.00		
01-60-004-a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Sign Boards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01-60-007	Provision site sanitation facility	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Kshs. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Kshs. 300,000 for Provision, growing and Maintenance of Trees	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Kshs. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	10,000		
Bill 1: Total Carried Forward to Summary:					

ROAD NAME:	Maralal Town Road				
ROAD No.:	C606-01				
Bill of Quantities					Page: 1
Bill No. 1:	Preliminary and General Costs Items				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
01-50-026	Allow a prime cost sum of Ksh. 1,000,000 for Engineer's miscellaneous account	PC Sum	1.00		
01-50-026-a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1.00		
01-60-003	Insurance and Securities	Lump sum	1.00		
01-60-004	Allow a prime cost sum of Ksh. 1,000,000 for Quality Control Tests and Survey	PC. Sum	1.00		
	Include % of Prime cost sum in item 1.09 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Signboards	No.	2.00		
01-60-006	Drinking Water	Lump sum	1.00		
01 -60-007	Provide sanitation facilities on site	Lump sum	1.00		
01-80-142	Allow a prime cost sum of Ksh. 5,000,000 for CSR Project as instructed	PC Sum	1.00		
01-80-142 - a	Include % of Prime cost sum in item 01-80-142 for contractor's overhead and profit	%			
01-80-143	Allow a prime cost sum of Ksh. 300,000 for Provision, growing and Maintenance of Trees as instructed	PC Sum	1.00		
01-80-143 - a	Include % of Prime cost sum in item 01-80-143 for contractor's overhead and profit	%			
01-80-144	Allow a prime cost sum of Ksh. 1,000,000 for Security	PC Sum	1.00		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144 - b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes. The cost includes provision of the driver, fuel, insurance and all other running costs of the first 5000Km per vehicle month. Mileage to be a maximum of 50,000Km on delivery/start.	Veh month	12.00		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (rate inclusive of driver, insurance, fuel and overall maintenance)	Km	5,000		
Bill 1: Total Carried Forward to Summary:					

Bill of Quantities					Page: 1
Bill 1	Preliminaries and General Costs Items	PROJECT: MIRERA MALLE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
01-50-026	Allow a prime cost sum of Ksh. 450,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026b	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 500,000 for Quality Control Tests and Surveys	PC. Sum	1		
01-60-004 a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and Erect Publicity Signboards as directed by the Engineer	No.	2		
01-60-006	Provide safe drinking water on site for the workers for the duration of the contract as directed by the Engineer	Lump sum	1		
01-60-007	Provision of Site Sanitation Facilities	Lump sum	1		
01-60-008	Allow a prime cost sum of Ksh.5,000,000 for relocation of services	PC Sum	1		
01-60-010	Include % of Prime cost sum in item 01-60-008 for contractor's overhead and profit	%			
01-80-142	Allow a PC Sum of Ksh. 2,000,000for a CSR Project as instructed by the Engineer	PC Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC Sum	1.00		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			
	Bill 1: Total Carried forward to Summary:				

Bill of Quantities					Page: 1
Bill 1	Preliminaries and General Costs Items	PROJECT: ITUGURURU KAMAENDE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
01-50-026	Allow a prime cost sum of Ksh. 450,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026 a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 500,000 for Quality Control Tests and Surveys	PC. Sum	1		
01-60-004 a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and Erect Publicity Signboards as directed by the Engineer	No.	2		
01-60-006	Provide safe drinking water on site for the workers for the duration of the contract as directed by the Engineer	Lump sum	1		
01-60-007	Provision of Site Sanitation Facilities	Lump sum	1		
01-60-008	Allow a prime cost sum of Ksh.5,000,000 for relocation of services	PC Sum	1		
01-60-010	Include % of Prime cost sum in item 01-60-008 for contractor's overhead and profit	%			
01-80-142	Allow a PC Sum of Ksh 2,000,000 for a CSR Project as instructed by the Engineer	PC Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC Sum	1.00		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			
	Bill 1: Total Carried forward to Summary:				

Bill of Quantities					Page: 1
Bill 1	Preliminaries and General Costs Items	PROJECT: MURIRI ISIOLO ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
01-50-026	Allow a prime cost sum of Ksh. 450,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026a	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 500,000 for Quality Control Tests and Surveys	PC. Sum	1		
01-60-004a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and Erect Publicity Signboards as directed by the Engineer	No.	2		
01-60-006	Provide safe drinking water on site for the workers for the duration of the contract as directed by the Engineer	Lump sum	1		
01-60-007	Provision of Site Sanitation Facilities	Lump Sum	1		
01-60-008	Allow a prime cost sum of Ksh.5,000,000 for relocation of services	PC Sum	1		
01-60-010	Include % of Prime cost sum in item 01-60-008 for contractor's overhead and profit	%			
01-80-142	Allow a PC Sum of Ksh. 2,000,000for a CSR Project as instructed by the Engineer	PC Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC Sum	1		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			
	Bill 1: Total Carried forward to Summary:				

Bill of Quantities					Page: 1
Bill 1	Preliminaries and General Costs Items	Project: BABITO - SOLIO VILLAGE ROAD - BATCH 1			
Item No.	Description	Unit	Quantity	Unit rate Ksh.	Amount KSh.
01-50-026	Allow a prime cost sum of Ksh. 350,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026B	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC. Sum	1		
01-60-004b	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Signboards as directed by the Engineer	No.	2		
01-60-006	Provide safe drinking water on site for the workers for the duration of the contract as directed by the Engineer	Lump sum	1		
01-60-007	Provision of site sanitation facilities	Lump sum	1		
01-80-142	Allow a PC Sum of Ksh. 2,000,000 or a CSR Project as instructed by the Engineer	PC. Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off	PC. Sum	1		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			-
	Bill 1: Total Carried forward to Summary:				

Bill of Quantities					Page:
					1
Bill 1	Preliminaries and General Costs Items	Project: ILPOLEI KIMANJO ROAD LOT 1 - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
01-50-026	Allow a prime cost sum of Ksh. 550,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026b	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 450,000 for Quality Control Tests and Surveys	PC. Sum	1		
	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Signboards as directed by the Engineer	No.	2		
01-60-006	Provide safe drinking water on site for the workers for the duration of the contract as directed by the Engineer	Lump sum	1		
01-60-007	Provision of site sanitation facilities	Lump sum	1		
01-80-142	Allow a PC Sum of Ksh. 2,000,000 for a CSR Project as instructed by the Engineer	PC. Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC. Sum	1		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			-
	Bill 1: Total Carried forward to Summary:				

Bill of Quantities					Page:
					1
Bill 1	Preliminaries and General Costs Items	Project: ILPOLEI KIMANJO ROAD lot 2 - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
01-50-026	Allow a prime cost sum of Ksh. 550,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026b	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 450,000 for Quality Control Tests and Surveys	PC. Sum	1		
	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Signboards as directed by the Engineer	No.	2		
01-60-006	Provide safe drinking water on site for the workers for the duration of the contract as directed by the Engineer	Lump sum	1		
01-60-007	Provision of site sanitation facilities	Lump sum	1		
01-80-142	Allow a PC Sum of Ksh. 2,000,000 or a CSR Project as instructed by the Engineer	PC. Sum			
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC. Sum	1		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			-
	Bill 1: Total Carried forward to Summary:				

Bill of Quantities Bill 1 Preliminaries and General Costs Items					Page:1
		Projec: KACHIULU - GOTU ROAD - BATCH 1			
Item No.	Description	Unit	Quantity	Unit rate(kshs)	Amount (kshs)
01-50-026	Allow a prime cost sum of Ksh. 350,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026b	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC. Sum	1		
01-60-004b	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Signboards as directed by the Engineer	No.	2		
01-60-006	Provide safe drinking water on site for the workers for the duration of the contract as directed by the Engineer	Lump sum	1		
01-60-007	Provision of site sanitation facilities	Lump sum	1		
01-80-142	Allow a PC Sum of Ksh. 2,000,000for a CSR Project as instructed by the Engineer	PC. Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC. Sum	1		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			
01-80-144	Security Allow a PC Sum of Ksh. 1,000,000 for provision of security the project road, as instructed by the Engineer	PC Sum	1		
01-80-144 - a	Include % of Prime cost sum in item 01-80-144 for contractor's overhead and profit	%			
01-80-144-b	Hire/provide 1No. 4WD double cabin pick-up of minimum 2800cc engine capacity for security purposes.	Veh month	8		
01-80-144-c	Extra Over item 01-80-144-b for mileage over 5000Km per vehicle month (Km	20,000		
Bill 1: Total Carried forward to Summary:					

Bill of Quantities					Page:
					1
Bill 1	Preliminaries and General Costs Items	Project: GICHANINE - MARIARA ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
01-50-026	Allow a prime cost sum of Ksh. 350,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026b	Include % of Prime cost sum in item 01-50-026 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 300,000 for Quality Control Tests and Surveys	PC. Sum	1		
01-60-004a	Include % of Prime cost sum in item 01-60-004 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Signboards as directed by the Engineer	No.	2		
01-60-006	Provide safe drinking water on site for the workers for the duration of the contract as directed by the Engineer	Lump sum	1		
01-60-007	Provision of site sanitation facilities	Lump sum	1		
01-80-142	Allow a PC Sum of Ksh2,000,000 for a CSR Project as instructed by the Engineer	PC. Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC. Sum	1		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			
Bill 1: Total Carried forward to Summary:					

Bill of Quantities					Page:
					1
Bill 1	Preliminaries and General Costs Items	MATERI KAMARANDI KAMANYAKI BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
01-50-026	Allow a prime cost sum of Ksh. 250,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026 a	Include % of Prime cost sum in item 1.09 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 750, 000 for Quality Control Tests and Surveys	PC. Sum	1		
01-60-004a	Include % of Prime cost sum in item 1.09 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Signboards	No.	2		
01-60-006	Drinking Water	Lump sum	1		
01 -60-007	Provide sanitation facilities on site	Lump sum	1		
01-80-142	Allow a PC Sum of Ksh. 2,000,000 for a CSR Project as instructed by the Engineer	PC. Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC. Sum	1		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			
Bill 1: Total Carried forward to Summary:					

Bill of Quantities					Page:
					1
Bill 1	Preliminaries and General Costs Items	MARIMA Makutano B1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
01-50-026	Allow a prime cost sum of Ksh. 250,000 for Engineer's miscellaneous account	PC Sum	1		
01-50-026	Include % of Prime cost sum in item 1.09 for contractor's overhead and profit	%			
01-60-002	Clearance on Completion	Lump sum	1		
01-60-003	Insurance and Securities	Lump sum	1		
01-60-004	Allow a prime cost sum of Kshs. 750,000 for Quality Control Tests and Surveys	PC. Sum	1		
01-60-004 b	Include % of Prime cost sum in item 1.09 for contractor's overhead and profit	%			
01-60-005	Provide and erect Publicity Signboards	No.	2		
01-60-006	Drinking Water	Lump sum	1		
01 -60-007	Provide sanitation facilities on site	Lump sum	1		
01-80-142	Allow a PC Sum of Ksh. 2,000,000 for a CSR Project as instructed by the Engineer	PC. Sum	1		
01-80-142a	E.O for Item 01-80-142 for Contractors Overheads And Profit	%			
01-80-143	Allow a PC Sum of Ksh. 200,000 for provision and maintenance of trees throughout the contract period, and at designated locations off the project road, as instructed by the Engineer	PC. Sum	1		
01-80-143a	E.O for Item 01-80-143 for Contractors Overheads And Profit	%			
	Bill 1: Total Carried forward to Summary:				

ANNEX 2
(Bill 9 – All Gravel & LVS contracts)

ROAD NAME:	Gotu-Merti 01A (10Km)				
ROAD No.:	C340 - 01A				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1.00		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Gotu-Merti 01B (10Km)				
ROAD No.:	C340 – 01B				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Isiolo - Mlango Road-01A (10Km)				
ROAD No.:	C342 - 02A				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	ISIOLO - MLANGO-OLDONYIRO (10 km)				
ROAD No.:	C342 - 02B				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Kinna-Rapsu (8km)				
ROAD No.:	E4288 – 03				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump Sum	1		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Logologo-Korr 01 (10Km)				
ROAD No.:	E4299 – 01				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	A2-Manyatta Jillo (7.2km)				
ROAD No.:	G41188-03				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump Sum	1		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Sololo-Mado Adhi				
ROAD No.:	G412182 – 02				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1.00		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Baragoi-Masikita 01A (10Km)				
ROAD No.:	C605 - 01A				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1.00		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Baragoi-Masikita 01B (10Km)				
ROAD No.:	C605 - 01B				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1.00		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Baragoi-Masikita 01C (10Km)				
ROAD No.:	C605 - 01C				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1.00		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Maralal-Opiroi-Barsaloi 01 (10Km)				
ROAD No.:	C606 – 01				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1.00		
Bill 9: Total Carried Forward to Summary:					

ROAD NAME:	Maralal Town Road				
ROAD No.:	C606-01				
Bill of Quantities					Page: 7
Bill No. 9	Passage of Traffic				
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
09-50-004	Traffic control	Lump sum	1.00		
Bill 9: Total Carried Forward to Summary:					

Bill of Quantities					Page 8
Bill 9	Traffic Control	PROJECT: MIRERA MALLE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
09-50-004	Traffic Control	Lump sum	1		
Bill 9: Total Carried forward to Summary:					

Bill of Quantities					Page 8
Bill 9	Traffic Control	PROJECT: ITUGURURU KAMAENDE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
09-50-004	Traffic Control	Lump sum	1		
Bill 9: Total Carried forward to Summary:					

Bill of Quantities					Page 8
Bill 9	Traffic Control	PROJECT: MURIRI ISIOLO ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
09-50-004	Traffic Control	Lump sum	1		
Bill 9: Total Carried forward to Summary:					

Bill of Quantities					Page: 8
Bill 9	Passage of Traffic	Project: BABITO - SOLIO VILLAGE ROAD - BATCH 1			
Item No.	Description	Unit	Quantity	Unit rate Ksh.	Amount KSh.
09-50-004	Traffic Control	Lump sum	1		
Bill 9: Total Carried forward to Summary:					

Bill of Quantities					Page:
					8
Bill 9	Passage of Traffic	Project: ILPOLEI KIMANJO ROAD LOT 1 - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
09-50-004	Traffic Control	Lump sum	1		
					-
	Bill 9: Total Carried forward to Summary:				

Bill of Quantities					Page:
					8
Bill 9	Passage of Traffic	Project: ILPOLEI KIMANJO ROAD LOT 2 - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
09-50-004	Traffic Control	Lump sum	1		
					-
	Bill 9: Total Carried forward to Summary:				

Bill of Quantities					Page:
					8
Bill 9	Passage of Traffic	Project: KACHIULU - GOTU ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
09-50-004	Traffic Control	Lump sum	1		
Bill9: Total Carried forward to Summary:					

Bill of Quantities					Page:
					8
Bill 9	Passage of Traffic	Project: GICHANINE - MARIARA ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
09-50-004	Traffic Control	Lump Sum	1		
					-
Bill 9: Total Carried forward to Summary:					

Bill of Quantities					Page:
					8
Bill 9	Setting Out	MARIMA Makutano B1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
09-50-004	Traffic Control	Lump sum	1		
					-
Bill 9: Total Carried forward to Summary:					

Bill of Quantities					Page:
					8
Bill 9	Setting Out	MATERI KAMARANDI KAMANYAKI BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
09-50-004	Traffic Control	Lump sum	1		
					-
	Bill 9: Total Carried forward to Summary:				

ANNEX 3

(Specification for Concrete Class 30/20)

1703(E) CONCRETE WORKS (CLASS 30/20)

This work shall consist of furnishing, mixing, delivering and placing of the concrete for the construction of box culvert walls and slabs, in accordance with these Specifications and in conformity with the requirements shown on the Drawings.

Concrete class 30/20 shall be used for box culvert walls and slabs.

a) Concrete Materials

1. Cement

Cement shall be Ordinary Portland Cement type and shall conform to the requirements of Kenya Standard “KS 1725 2001 CEM 1 42.5N”

The contractor shall select only one type and brand of cement. Changing of type or brand of cement will not be permitted without a new mix design approved by the Engineer. All cement is subject to the Engineer’s approval; however, approval of cement by the Engineer shall not relieve the Contractor of the responsibility to furnish concrete of the specified compressive strength.

Conveyance of cement by jute bags shall not be permitted. Storage in the Contractor’s silo or storehouse shall not exceed more than two (2) months, and age of cement after manufacture at mill shall not exceed more than four (4) months. The Contractor shall submit to the Engineer for his approval the result of quality certificate done prepared by the manufacturer.

Whenever it is found out that cement have been stored too long, moist, or caked, the cement shall be rejected and removed from the project.

2. Aggregates

Fine and coarse aggregate must be clean, hard, strong and durable, and free from absorbed chemicals, clay coating, or materials in amounts that could affect hydration, bonding, strength and durability of concrete.

Grading of aggregates shall conform to the following requirements:

a) Grading of Fine Aggregate

Sieve Size	Percentage by Weight Passing
10 mm	100
6.3mm	89-100
2.5 mm	60-100
1.2 mm	30-100
0.6 mm	15- 54
0.3 mm	5- 40

Other requirements for fine aggregates are as follows:

Fineness Modulus, AASHTO M-6 : 2.3 – 3.1

Sodium Sulphate Soundness, AASHTO T104 : Max. 10% loss
 Content of Friable Particles AASHTO 112 : Max 1% by weight
 Sand Equivalent, AASHTO T176 : Min. 75

b) Grading of Coarse Aggregates

Size of Coarse Aggregate	40	30	25	20	15	10	5	2.5
Amounts finer than each standard sieve percentage by	100	-	-	90-100	-	30-69	0-10	-

Other requirements for coarse aggregates are as follows:

Abrasion, AASHTO T96 : Max. 40% loss
 Soft Fragment and shale, AASHTO M80 : Max. 5% by weight
 Thin and elongated Pieces, AASHTO M80 : Max. 15%

3. Water for concrete and mortar

All sources of water to be used with cement shall be approved by the Engineer. Water shall be free from injurious quantities of oil, alkali, and vegetable matter and salt as determined by the Engineer.

4. Admixture

Only admixture, which have been tested and approved in the site laboratory through trial mixing for design proportion shall be used.

Before selection of admixture, the Contractor shall submit to the Engineer the specific information or guarantees prepared by the admixture supplier.

The contractor shall not exclude the admixture from concrete proportions.

THE DESIGN OF CONCRETE MIXES

(a) Classes of concrete

Concrete class 30/20 shall be used for culvert walls and slabs. The requirements of Concrete class 30/20 are provided as follows unless otherwise the Engineer will designate any alteration.

Design compressive strength (28 days) : 30N/mm²
 Maximum size of coarse aggregates : 20mm
 Maximum water/cement ratio of 45% with slump of 80mm

(b) Design of proposed mixes

The Contractor shall consult with the Engineer as to mix proportions at least thirty (30) days prior to beginning the concrete work. The actual mix proportions of cement, aggregates, water and admixture shall be determined by the Contractor under supervision of the Engineer in the site laboratory.

The Contractor shall prepare the design proportions which has 120% of the strength requirement specified for the designated class of concrete.

No class of concrete shall be prepared or placed until its job-mix proportions have been approved by the Engineer.

MIXING CONCRETE

(i) Batching

Batching shall be done by weight with accuracy of:

Cement	: 0.5 percent
Aggregate	: 0.5 percent
Water and Admixture	: 1 percent.

Equipment should be capable of measuring quantities within these tolerances for the smartest batch regularly used, as well as for larger batches.

The accuracy of batching equipment should be checked every month in the presence of the Engineer and adjusted when necessary.

(ii) Mixing and delivery

Slump of mixed concrete shall be checked and approved at an accuracy of +25mm against designated slump in these specifications.

PLACING OF CONCRETE

(i) Concrete in hot weather

No concrete shall be placed when the ambient air temperature is expected to exceed thirty three degrees celsius (33⁰c) during placement operations).

(ii) Concreting at night

No concrete shall be mixed, placed or finished when natural light is insufficient, unless an adequate approved artificial lighting system is operated, such night work is subject to approval by the engineer.

(iii) Placing

In preparation of the placing of concrete, the interior space of forms shall be cleaned and approved by the engineer prior to placing concrete. All temporary members except tie bars to support forms shall

be removed entirely from the forms and not buried in the concrete. The use of open and vertical chute shall not be permitted unless otherwise directed by the engineer.

The Contractor shall provide a sufficient number of vibrators to properly compact each batch immediately after it is placed in the forms.

Measurement and Payment

Measurements for the Concrete Works Class 30/20 of box culvert walls and slabs shall be made in cubic metres for the walls and slabs actually constructed, measured from their dimensions shown on the Drawings. Payment for the Concrete Works (Class 30/20) of culvert walls and slabs shall be the full compensation for furnishing all materials of the concrete mixing, delivering, placing and curing the concrete, equipment and tools, labour and other incidental necessary for the completion of the work in accordance with the Drawings and these Specifications and as directed by the Engineer.

ANNEX 4
(AFD/EU/ TN/LVS/1/2023/24 - ITUGURURU
KAMAENDE BATCH 1)

Bill of Quantities					Page 3
Bill 4	Site Clearance	PROJECT: ITUGURURU KAMAENDE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
				Ksh.	KSh.
04-50-002	Grass Cutting Manual	m ²	0		-
04-50-003	Bush Clearing (Heavy)	m ²	20,460		
04-50-004	Bush Clearing (Light)	m ²	54,305		
04-50-005	Pruning Tree Branches	Prov. Sum	50,000		
04-50-006	Trees cutting And Stump Removal (200-450mm girth)	No.	100		
04-50-007	Trees cutting And Stump Removal (>450mm girth)	No.	50		
04-50-008	Rock & Boulder Removal	Prov. Sum	100,000		
04-50-009	Stripping and Grubbing	m2	53,283		
04-50-010	Excavate remove & disposal of concrete structures	Prov. Sum	50,000		
Bill 4: Total Carried forward to Summary:					

Bill of Quantities					Page 6
Bill 8	Culverts and Drainage works	PROJECT: ITUGURURU KAMAENDE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
08-50-002	Ditch Cleaning - manual	m			-
08-50-005	Ditch/Mitre drains/Catchwater Drains excavation	m ³	200		
	Culverts Cleaning - partially blocked				
08-60-002	450mm dia	m			
08-60-003	600mm dia	m	50		
08-60-004	900mm dia	m	100		
08-60-005	1200mm dia	m			
	Culvert cleaning - fully blocked				
08-60-007	450mm dia	m			
08-60-008	600mm dia	m	0		
08-60-009	900mm dia	m	0		
08-60-010	1200mm dia	m			
	Supply and Install concrete pipe culverts				
08-60-023	450mm surround (type IV)	m			
08-60-025	600mm surround (type IV)	m	128		
08-60-027	900mm surround (type IV)	m	80		
08-60-029	1200mm surround (type IV)	m			
	Minor Drainage Structures				
08-60-017	Headwall Repair - masonry	No.			
08-60-018	Headwall Repair - concrete	No.			
Sub Total 1 C/F					

Bill of Quantities					Page: 7
Bill 8	Road Drainage and Structure works	PROJECT: ITUGURURU KAMAENDE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
				B/F	
08-60-019	Construct 200mm thick dressed masonry walling to culverts' wingwalls and headwalls.	m ³			
08-60-020	Provide, place and compact class 20/20 concrete to culverts' headwalls, wingwalls, aprons and toe beams including form work.	m ³	60.0		
08-70-001	Stone Pitching	m ²	500		
08-70-004	Supply and Install Gabion boxes 2x1x1m	m ²	400		
08-70-005	Rockfill to Gabion boxes	m ³	760		
08-70-006	Scour Checks -200mm thick dressed Masonry stones	No.	676		
08-70-007	Scourchecks (concrete)	No.			
08-70-016	Stone & post checkdams	No.	15		
08-80-001	Access Drifts -using 200mm thick dressed Masonry Stones	m ²			
Bill 8: Total Carried forward to Summary:					

ANNEX 5

**(Bill 8 – AFD/EU/ME/GR/1/2023/24 - KACHULU –
GOTU)**

Bill of Quantities					Page:
					6
Bill 8	Culverts and Drainage works	Project: KACHIULU - GOTU ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
08-50-002	Ditch Cleaning - manual	m	0		-
08-50-005	Ditch/Mitre drains/Catchwater Drains excavation	m ³	0		
	Culverts Cleaning - partially blocked		0		
08-60-002	450mm dia	m	0		
08-60-003	600mm dia	m	21		
08-60-004	900mm dia	m	0		
08-60-005	1200mm dia	m	0		
	Culvert cleaning - fully blocked		0		
08-60-007	450mm dia	m	0		
08-60-008	600mm dia	m	0		
08-60-009	900mm dia	m	0		
08-60-010	1200mm dia	m	0		
	Supply and Install concrete pipe culverts				
08-60-023	450mm surround (type IV)	m	0		
08-60-025	600mm surround (type IV)	m	0		
08-60-027	900mm surround (type IV)	m	7		
	900mm Twin surround (type C-12B)	m	28		
	900mm Tripple surround (type C-12B)	m	0		
08-60-029	1200mm surround (type C-12B)	m	0		
	Minor Drainage Structures		0		
08-60-017	Headwall Repair - masonry	No.	0		
08-60-018	Headwall Repair - concrete	No.	0		
Sub Total 1 C/F					

Bill of Quantities					Page: 7
Bill 8	Road Drainage and Structure works	Project: KACHIULU - GOTU ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
				B/F	
	Minor Drainage Structures - Masonry				
08-60-019	Headwall Type 1	m ³	0		
08-60-019	Headwall Type 2	m ³	0		
08-60-019	Headwall Type 3a	m ³	0		
08-60-019	Headwall Type 3b	m ³	0		
08-60-019	Headwall Type 4	m ³	0		
	Minor Drainage Structures - Concrete				
08-60-020	Headwall Type 1	m ³	8		
08-60-020	Headwall Type 2	m ³	0		
08-60-020	Headwall Type (C-12B Twin 900mm)	m ³	0		
08-60-020	Headwall Type (C-12B Tripple 900mm)	m ³	0		
08-60-021	Headwall Type (C-12B 1200mm)	m ³	0		
08-60-020	Headwall Type 4	m ³	0		
08-70-001	Stone Pitching	m ²	0		
08-70-002	Stone Pitching Repair	m ²	0		
08-70-004	Supply and Install Gabion boxes 2x1x1m	No.	8		
08-70-005	Rockfill to Gabion boxes	m ³	16		
08-70-006	Scourcheck Repair - concrete	No.	0		
08-70-007	Scourchecks Repair - (masonry)	No.	0		
08-70-008	Scourcheck Repair - wooden	No.	0		
08-70-009	Scourchecks (masonry)	No.	0		-
08-70-011	Scourchecks (concrete)	No.	0		
08-70-015	Stone & post checkdams	No.	0		-
08-80-001	Drifts - dressed masonry stone	m ²	0		-
08-80-002	Drifts - Concrete	m ³	60		
	Bill 8: Total Carried forward to Summary:				

ANNEX 6
BILL 25 AND BILL 26

Bill of Quantities					Page:
					12
Bill 25	Cross cutting issues	Project: ILPOLEI KIMANJO ROAD LOT 11-BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
25-50-001(a)	HIV/AIDS Awareness Campaigns	Month	8		
25-50-001(b)	HIV/AIDS Prevention Campaign	PC Sum	1	240,000	
25-50-001(C)	Include % of Prime cost sum in item 25-50-001(b) for contractor's overhead and profit	%			
25-50-002	Provision of Environmental and Social Mitigation Measures	LS	1		
25-50-003	Health and Safety Measures on Site	LS	1		
	Bill 25: Total Carried forward to Summary:				

Bill of Quantities					Page:
					12
Bill 25	Cross cutting issues	Project: ILPOLEI KIMANJO ROAD 1 – lot 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
25-50-001(a)	HIV/AIDS Awareness Campaigns	Month	8		
25-50-001(b)	HIV/AIDS Prevention Campaign	PC Sum	1	240,000	
25-50-001(C)	Include % of Prime cost sum in item 25-50-001(b) for contractor's overhead and profit	%			
25-50-002	Provision of Environmental and Social Mitigation Measures	LS	1		
25-50-003	Health and Safety Measures on Site	LS	1		
	Bill 25: Total Carried forward to Summary:				

Bill of Quantities					Page: 12
Bill 25	Cross cutting issues	Project: BABITO - SOLIO VILLAGE ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate Ksh.	Amount KSh.
25-50-001(a)	HIV/AIDS Awareness Campaigns	Month	8		
25-50-001(b)	HIV/AIDS Prevention Campaign	PC Sum	1	240,000	
	Include % of Prime cost sum in item 25-50-001(b) for contractor's overhead and profit	%	20		
25-50-002	Provision of Environmental and Social Mitigation Measures	Lump Sum	1		
25-50-003	Health and Safety Measures on Site	Lump Sum	1		
Bill 25: Total Carried forward to Summary:					

Bill of Quantities					Page:
					12
Bill 25	Cross cutting issues	Project: GICHANINE - MARIARA ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
25-50-001(a)	HIV/AIDS Awareness Campaigns	Month	8		
25-50-001(b)	HIV/AIDS Prevention Campaign	PC Sum	1	240000	
	Include % of Prime cost sum in item 25-50-001(b) for contractor's overhead and profit	%			
25-50-002	Provision of Environmental and Social Mitigation Measures	LS	1		
25-50-003	Health and Safety Measures on Site	LS	1		
	Bill 25: Total Carried forward to Summary:				

Bill 25	CROSS CUTTING ISSUES	PROJECT: MIRERA MALLE ROAD			
Item No.	Description	Unit	Quantity	Unit rate Ksh.	Amount KSh.
25-50-001(a)	HIV/AIDS Awareness Campaigns	Month	12		
25-50-001(b)	HIV/AIDS Prevention Campaign	PC Sum	1	400,000	
25-50-001©	Include % of Prime cost sum in item 25-50-001(b) for contractor's overhead and profit	%			
25-50-002	Provision of Environmental and Social Mitigation Measures	LS	1		
25-50-003	Health and Safety Measures on Site	Lump Sum	1		
Bill 25: Total Carried forward to Summary:					

Bill of Quantities					Page:
					12
Bill 25	Cross cutting issues	Project: KACHIULU - GOTU ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
25-50-001(a)	HIV/AIDS Awareness Campaigns	Month	8		
25-50-001(b)	HIV/AIDS Prevention Campaign	PC Sum	1	240000	
25-50-001(c)	Include % of Prime cost sum in item 25-50-001(b) for contractor's overhead and profit	%			
25-50-002	Provision of Environmental and Social Mitigation Measures	LS	1		
25-50-003	Health and Safety Measures on Site	LS	1		
Bill 25: Total Carried forward to Summary:					

Bill of Quantities					Page 18
Bill 25	CROSS CUTTING ISSUES	PROJECT: MURIRI ISIOLO ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
25-50-001(a)	HIV/AIDS Awareness Campaigns	Month	12		
25-50-001(b)	HIV/AIDS Prevention Campaign	PC Sum	1	400,000	
25-50-001©	Include % of Prime cost sum in item 25-50-001(b) for contractor's overhead and profit	%			
25-50-002	Provision of Environmental and Social Mitigation Measures	Lump sum	1		
25-50-003	Health and Safety Measures on Site	Lump Sum	1		
Bill 25: Total Carried forward to Summary:					

Bill of Quantities					Page 18
Bill 25	CROSS CUTTING ISSUES	PROJECT: ITUGURURU KAMAENDE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
25-50-001(a)	HIV/AIDS Awareness Campaigns	Month	12		
25-50-001(b)	HIV/AIDS Prevention Campaign	PC Sum	1	400,000	
25-50-001©	Include % of Prime cost sum in item 25-50-001(b) for contractor's overhead and profit	%			
25-50-003	Provision of Environmental and Social Mitigation Measures	LS	1		
25-50-004	Health and Safety Measures on Site	Lump Sum	1		
Bill 25: Total Carried forward to Summary:					

[illegible]

BILL 26

PROJECT: IMPROVEMENT WORKS FOR MIRERA MALLE ROAD					
Bill no 26. ROUTINE MAINTENANCE WORKS					
Item No.	Activities	Unit	Quantity	Rate Ks	Amount Ksh.
PART A. PERFORMANCE BASED MAINTENANCE WORKS					
01	Performance Based Routine Maintenance (PBRM)	Km/Mo	36		
Total Performance Based Routine Maintenance for 5.5 Km Section (A) = (PBRM X 5.5Km)					
PART B. INSTRUCTED MAINTENANCE WORKS					
<i>The Quantities below are indicative of the work that may be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.</i>					
Bill 1	Preliminaries				
01 - 60 -005	Provide and Erect publicity sign boards	No.	2		
Bill 4	Site Clearance				
04-50-010	Excavate, Remove and Disposal of Concrete structures	m ³	6		
Bill 8:	Road Drainage and Structures				
08-001	Excavation of foundation for drainage structures	m ³	15.0		
08-002d	Bedding and Haunching Type IV				
i.	450mm dia	M			
ii.	600mm dia	M	60.0		
iii.	900mm dia	M			
08-60-019	Provide material and construct minor drainage structures - Masonry				
a	Headwall Type 1	m ³			
b	Headwall Type 2	m ³			
c	Headwall Type 3a	m ³			
d	Headwall Type 3b	m ³			
e	Headwall Type 4	m ³	12		
08-70-004	Supply and Install Gabion boxes 2x1x1m	No.	15		
08-70-005	Rockfill to Gabion boxes	m ³	30		
08-70-009	Scour checks masonry	No.	30		
08-80-001	Drifts - Dressed masonry stones	m ²	60		
Bill 14:	Treated Subbase & Base				
14-60-001	Provide, mix place and compact 100mm composite Emulsion Treated Base - All inclusive	m ³	30		
Bill 15	Bituminous surface treatment				
15-93-005	Prepare surface, provide and spray Anionic Emulsion, A4-60 with 1:6 dilution at the rate of 0.8Litres/M2 as prime coat or as directed by the Engineer	Litres	1200		
15-50-006	Cracks Sealing	M	1000		0.00
Bill 16	Bituminous mixes				
16-60-002	Provide, mix, place and compact 20mm Cold Mix Asphalt -Prepare primed surface of carriageways, shoulders, busbays and junctions; provide and spray Anionic Emulsion bitumen A4-60% tack coat with 1:6 dilution at the at a spray rate of 1.0-1.2Litres/m2. - All inclusive-By Labour/Equipment	m ²	1400		
Bill 22	Dayworks / Emergencies	LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign	LS	1		
TOTAL INSTRUCTED WORKS					

Bill of Quantities - INSTRUCTED ROUTINE MAINTENANCE WORKS							
Bill no 26. ROUTINE MAINTENANCE WORKS				Project: GICHANINE - MARIARA ROAD - BATCH 1			
Item No.	Activities			Unit	Quantity	Rate Ksh.	Amount Ksh.
01	Performance Based Routine Maintenance (PBRM)			Km/Mo	36		
Total Performance Based Routine Maintenance for 7Km Section (A) = (PBRM X 6Km)							
PART B. INSTRUCTED MAINTENANCE WORKS							
<i>The Quantities below are indicative of the work that may be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.</i>							
Bill 1	Preliminaries						
01 - 60 -005	Provide and Erect publicity sign boards			No.	2		
Bill 8:	Road Drainage and Structures						
08-001	Excavation of foundation for drainage structures			m ³	15.0		
08-002d	Bedding and Haunching Type IV						
i.	450mm dia			m			
ii.	600mm dia			m	32.0		
iii.	900mm dia			m			
08-60-019	Provide material and construct minor drainage structures - Masonry						
a	Headwall Type 1			m ³			
b	Headwall Type 2			m ³			
c	Headwall Type 3a			m ³			
d	Headwall Type 3b			m ³			
e	Headwall Type 4			m ³	12		
08-70-009	Scour checks masonry			No.	30		
08-80-001	Drifts - Dressed masonry stones			m ²	60		
Bill 10:	Grading and Gravelling works						
10-50-006 a	Light Carriageway reshaping manual	Repair of potholes, ruts, gullies with gravel		m ³	648		
Bill 22	Dayworks / Emergencies			LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign			LS	1		
TOTAL INSTRUCTED WORKS							

Bill of Quantities - INSTRUCTED ROUTINE MAINTENANCE WORKS					
Bill no 26. ROUTINE MAINTENANCE WORKS					
			Project: KACHIULU - GOTU ROAD - BATCH 1		
Item No.	Activities	Unit	Quantity	Rate Ksh.	Amount Ksh.
01	Performance Based Routine Maintenance (PBRM)	Km/Mo	36		
Total Performance Based Routine Maintenance for 6 Km Section (A) = (PBRM X 6Km)					
PART B. INSTRUCTED MAINTENANCE WORKS					
<i>The Quantities below are indicative of the work that may be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.</i>					
Bill 1	Preliminaries				
01 - 60 -005	Provide and Erect publicity sign boards	No.	2		
Bill 8:	Road Drainage and Structures				
08-001	Excavation of foundation for drainage structures	m ³	15.0		
08-002d	Bedding and Haunching Type IV				
i.	450mm dia	m			
ii.	600mm dia	m	32.0		
iii.	900mm dia	m			
08-60-019	Provide material and construct minor drainage structures - Masonry				
a	Headwall Type 1	m ³			
b	Headwall Type 2	m ³			
c	Headwall Type 3a	m ³			
d	Headwall Type 3b	m ³			
e	Headwall Type 4	m ³	12		
08-70-009	Scour checks masonry	No.	30		
08-80-001	Drifts - Dressed masonry stones	m ²	60		
Bill 10:	Grading and Gravelling works				
10-50-006 a	Light Carriageway reshaping manual	Repair of potholes, ruts, gullies with gravel	m ³	648	
Bill 22	Dayworks / Emergencies	LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign	LS	1		
TOTAL INSTRUCTED WORKS					

Bill of Quantities - INSTRUCTED ROUTINE MAINTENANCE WORKS					
Bill no 26. ROUTINE MAINTENANCE WORKS					
			PROJECT: IMPROVEMENT WORKS FOR MURIRI ISIOLO ROAD		
Item No.	Activities	Unit	Quantity	Rate Ksh.	Amount Ksh.
PART A. PERFORMANCE BASED MAINTENANCE WORKS					
01	Performance Based Routine Maintenance (PBRM)	Km/M	36		
Total Performance Based Routine Maintenance for 6 Km Section (A) = (PBRM X 6Km)					
PART B. INSTRUCTED MAINTENANCE WORKS					
<i>The Quantities below are indicative of the work that may be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.</i>					
Bill 1	Preliminaries				
01 - 60 -005	Provide and Erect publicity sign boards	No.	2		
Bill 4	Site Clearance				
04-50-010	Excavate, Remove and Disposal of Concrete structures	m ³	12		
Bill 8:	Road Drainage and Structures				
08-001	Excavation of foundation for drainage structures	m ³	15.0		
08-002d	Bedding and Haunching Type IV				
i.	450mm dia	m			
ii.	600mm dia	m	120.0		
iii.	900mm dia	m			
08-60-019	Provide material and construct minor drainage structures - Masonry				
a	Headwall Type 1	m ³			
b	Headwall Type 2	m ³			
c	Headwall Type 3a	m ³			
d	Headwall Type 3b	m ³			
e	Headwall Type 4	m ³	12		
08-70-004	Supply and Install Gabion boxes 2x1x1m	No.	15		
08-70-005	Rockfill to Gabion boxes	m ³	10		
08-70-009	Scour checks masonry	No.	120		
08-80-001	Drifts - Dressed masonry stones	m ²	60		
Bill 14:	Treated Subbase & Base				
14-60-001	Provide, mix place and compact 100mm composite Emulsion Treated Base - All inclusive	m ³	30		
Bill 15	Bituminous surface treatment				
15-93-005	Prepare surface, provide and spray Anionic Emulsion, A4-60 with 1:6 dilution at the rate of 0.8Litres/M2 as prime coat or as directed by the Engineer	Litres	1200		
15-50-006	Cracks Sealing	m	1000		
Bill 16	Bituminous mixes				
16-60-002	Provide, mix, place and compact 20mm Cold Mix Asphalt -Prepare primed surface of carriageways, shoulders, busbays and junctions; provide and spray Anionic Emulsion bitumen A4-60% tack coat with 1:6 dilution at the at a spray rate of 1.0-1.2Litres/m2. - All inclusive-By Labour/Equipment	m ²	1400		
Bill 22	Dayworks / Emergencies	LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign	LS	1		
TOTAL INSTRUCTED WORKS					

Bill of Quantities - INSTRUCTED ROUTINE MAINTENANCE WORKS						
Bill no 26. ROUTINE MAINTENANCE WORKS						
				Project: MARIMA - MAKUTANO ROAD - BATCH 1		
Item No.	Activities	Unit	Quantity	Rate Ksh.	Amount Ksh.	
PART A. PERFORMANCE BASED MAINTENANCE WORKS						
01	Performance Based Routine Maintenance (PBRM)	Km/Mo	36			
Total Performance Based Routine Maintenance for 6Km Section (A) = (PBRM X 6Km)						
PART B. INSTRUCTED MAINTENANCE WORKS						
The Quantities below are indicative of the work that may be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.						
Bill 1	Preliminaries					
01 - 60 -005	Provide and Erect publicity sign boards		No.	2		
Bill 8:	Road Drainage and Structures					
08-001	Excavation of foundation for drainage structures		m³	15.0		
08-002d	Bedding and Haunching Type IV					
i.	450mm dia		m			
ii.	600mm dia		m	32.0		
iii.	900mm dia		m			
08-60-019	Provide material and construct minor drainage structures - Masonry					
a	Headwall Type 1		m³			
b	Headwall Type 2		m³			
c	Headwall Type 3a		m³			
d	Headwall Type 3b		m³			
e	Headwall Type 4		m³	12		
08-70-009	Scour checks masonry		No.	30		
08-80-001	Drifts - Dressed masonry stones		m²	60		
Bill 10:	Grading and Gravelling works					
10-50-006 a	Light Carriageway reshaping manual	Repair of potholes, ruts, gullies with gravel	m³	648		
Bill 22	Dayworks / Emergencies		LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign		LS	1		
TOTAL INSTRUCTED WORKS						

Bill of Quantities - INSTRUCTED ROUTINE MAINTENANCE WORKS					
Bill no 26. ROUTINE MAINTENANCE WORKS					
			MATERI KAMARANDI KAMANYAKI BATCH 1		
Item No.	Activities	Unit	Quantity	Rate Ksh.	Amount Ksh.
01	Performance Based Routine Maintenance (PBRM)	Km/Mo	36		
Total Performance Based Routine Maintenance for 6Km Section (A) = (PBRM X 6Km)					
PART B. INSTRUCTED MAINTENANCE WORKS					
<i>The Quantities below are indicative of the work that may be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.</i>					
Bill 1	Preliminaries				
01 - 60 -005	Provide and Erect publicity sign boards	No.	2		
Bill 8:	Road Drainage and Structures				
08-001	Excavation of foundation for drainage structures	m ³	15.0		
08-002d	Bedding and Haunching Type IV				
i.	450mm dia	m			
ii.	600mm dia	m	32.0		
iii.	900mm dia	m			
08-60-019	Provide material and construct minor drainage structures - Masonry				
a	Headwall Type 1	m ³			
b	Headwall Type 2	m ³			
c	Headwall Type 3a	m ³			
d	Headwall Type 3b	m ³			
e	Headwall Type 4	m ³	12		
08-70-009	Scour checks masonry	No.	30		
08-80-001	Drifts - Dressed masonry stones	m ²	60		
Bill 10:	Grading and Gravelling works				
10-50-006 a	Light Carriageway reshaping manual Repair of potholes, ruts, gullies with gravel	m ³	648		
Bill 22	Dayworks / Emergencies	LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign	LS	1		
TOTAL INSTRUCTED WORKS					

Bill of Quantities - INSTRUCTED ROUTINE MAINTENANCE WORKS

Bill no 26. ROUTINE MAINTENANCE WORKS					
			PROJECT: IMPROVEMENT WORKS FOR ITUGURURU KAMENDE ROAD		
Item No.	Activities	Unit	Quantity	Rate Ksh.	Amount Ksh.
Bill 1	Preliminaries				
PART A. PERFORMANCE BASED MAINTENANCE WORKS					
01	Performance Based Routine Maintenance (PBRM)	Km/Mo	36		
Total Performance Based Routine Maintenance for 6 Km Section (A) = (PBRM X 6Km)					
PART B. INSTRUCTED MAINTENANCE WORKS					
<i>The Quantities below are indicative of the work that may be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.</i>					
01 - 60 -005	Provide and Erect publicity sign boards	No.	2		
Bill 4	Site Clearance				
04-50-010	Excavate, Remove and Disposal of Concrete structures	m ³	6		
Bill 8:	Road Drainage and Structures				
08-001	Excavation of foundation for drainage structures	m ³	15.0		
08-002d	Bedding and Haunching Type IV				
i.	450mm dia	m			
ii.	600mm dia	m	60.0		
iii.	900mm dia	m			
08-60-019	Provide material and construct minor drainage structures - Masonry				
a	Headwall Type 1	m ³			
b	Headwall Type 2	m ³			
c	Headwall Type 3a	m ³			
d	Headwall Type 3b	m ³			
e	Headwall Type 4	m ³	15		
08-70-004	Supply and Install Gabion boxes 2x1x1m	No.	15		
08-70-005	Rockfill to Gabion boxes	m ³	10		
08-70-009	Scour checks masonry	No.	30		
08-80-001	Drifts - Dressed masonry stones	m ²	60		
Bill 14:	Treated Subbase & Base				
14-60-001	Provide, mix place and compact 100mm composite Emulsion Treated Base - All inclusive	m ³	30		
Bill 15	Bituminous surface treatment				
15-93-005	Prepare surface, provide and spray Anionic Emulsion, A4-60 with 1:6 dilution at the rate of 0.8Litres/M2 as prime coat or as directed by the Engineer	Litres	1200		
15-50-006	Cracks Sealing	m	1000		
Bill 16	Bituminous mixes				
16-60-002	Provide, mix, place and compact 20mm Cold Mix Asphalt -Prepare primed surface of carriageways, shoulders, busbays and junctions; provide and spray Anionic Emulsion bitumen A4-60% tack coat with 1:6 dilution at the at a spray rate of 1.0-1.2Litres/m2. - All inclusive-By Labour/Equipment	m ²	1400		
Bill 22	Dayworks / Emergencies	LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign	LS	1		
TOTAL INSTRUCTED WORKS					

Bill of Quantities - INSTRUCTED ROUTINE MAINTENANCE WORKS							
Bill no 26. ROUTINE MAINTENANCE WORKS				Bill no 26. ROUTINE MAINTENANCE WORKS			
				Project: ILPOLEI KIMANJO ROAD LOT II - BATCH 1			
Item No.	Activities			Unit	Quantity	Rate Ksh.	Amount Ksh.
PART A. PERFORMANCE BASED MAINTENANCE WORKS							
01	Performance Based Routine Maintenance (PBRM)			Km/Mo	36		
Total Performance Based Routine Maintenance for 9.4Km Section (A) = (PBRM X 9.4Km)							
Bill 1	Preliminaries						
01 - 60 -005	Provide and Erect publicity sign boards			No.	6		
Bill 8:	Road Drainage and Structures						
08-001	Excavation of foundation for drainage structures			m³	60.0		
08-002d	Bedding and Haunching Type IV						
i.	450mm dia			m			
ii.	600mm dia			m	90.0		
iii.	900mm dia			m			
08-60-019	Provide material and construct minor drainage structures - Masonry						
a	Headwall Type 1			m³			
b	Headwall Type 2			m³			
c	Headwall Type 3a			m³			
d	Headwall Type 3b			m³			
e	Headwall Type 4			m³	40		
08-70-009	Scour checks masonry			No.	20		
08-80-001	Drifts - Dressed masonry stones			m²	200		
Bill 10:	Grading and Gravelling works						
10-50-006 a	Light Carriageway reshaping manual	Repair of potholes, ruts, gullies with gravel		m³	648		
Bill 22	Dayworks / Emergencies			LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign			LS	1		
TOTAL INSTRUCTED WORKS							

Bill of Quantities - INSTRUCTED ROUTINE MAINTENANCE WORKS							
Bill no 26. ROUTINE MAINTENANCE WORKS							
				Project: ILPOLEI KIMANJO ROAD LOT 1 - BATCH 1			
Item No.	Activities			Unit	Quantity	Rate Ksh.	Amount Ksh.
PART A. PERFORMANCE BASED MAINTENANCE WORKS							
01	Performance Based Routine Maintenance (PBRM)			Km/Mo	36		
Total Performance Based Routine Maintenance for 9.4Km Section (A) = (PBRM X 9.4Km)							
Bill 1	Preliminaries						
01 - 60 -005	Provide and Erect publicity sign boards			No.	6		
Bill 8:	Road Drainage and Structures						
08-001	Excavation of foundation for drainage structures			m ³	60.0		
08-002d	Bedding and Haunching Type IV						
i.	450mm dia			m			
ii.	600mm dia			m	90.0		
iii.	900mm dia			m			
08-60-019	Provide material and construct minor drainage structures - Masonry						
a	Headwall Type 1			m ³			
b	Headwall Type 2			m ³			
c	Headwall Type 3a			m ³			
d	Headwall Type 3b			m ³			
e	Headwall Type 4			m ³	40		
08-70-009	Scour checks masonry			No.	20		
08-80-001	Drifts - Dressed masonry stones			m ²	200		
Bill 10:	Grading and Gravelling works						
10-50-006 a	Light Carriageway reshaping manual	Repair of potholes, ruts, gullies with gravel		m ³	648		
Bill 22	Dayworks / Emergencies			LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign			LS	1		
TOTAL INSTRUCTED WORKS							

PROJECT: BABITO - SOLIO VILLAGE ROAD - BATCH 1					
Bill no 26. ROUTINE MAINTENANCE WORKS BABITO SOLIO ROAD BATCH 1					
Item No.	Activities	Unit	Quantity	Rate Ksh.	Amount Ksh.
PART A. PERFORMANCE BASED MAINTENANCE WORKS					
01	Performance Based Routine Maintenance (PBRM)	Km/Month	36		
Total Performance Based Routine Maintenance for 7 Km Section (A) = (PBRM X 7Km)					
PART B. INSTRUCTED MAINTENANCE WORKS					
<i>The Quantities below are indicative of the work that may be carried out. There is no guarantee that the Contractor will be required to carry out all the quantity of work indicated under any one particular item or group of items in the Bills of Quantities. The basis of payment shall be the Contractor's rates and the quantities of measured work done in fulfilment of the obligations under the Contract.</i>					
Bill 1	Preliminaries				
01 - 60 -005	Provide and Erect publicity sign boards	No.	2		
Bill 8:	Road Drainage and Structures				
08-001	Excavation of foundation for drainage structures	m ³	15.0		
08-002d	Bedding and Haunching Type IV				
i.	450mm dia	m			
ii.	600mm dia	m	32.0		
iii.	900mm dia	m			
08-60-019	Provide material and construct minor drainage structures - Masonry				
a	Headwall Type 1	m ³			
b	Headwall Type 2	m ³			
c	Headwall Type 3a	m ³			
d	Headwall Type 3b	m ³			
e	Headwall Type 4	m ³	12		
08-70-009	Scour checks masonry	No.	30		
08-80-001	Drifts - Dressed masonry stones	m ²	60		
Bill 10:	Grading and Gravelling works				
10-50-006 a	Light Carriageway reshaping manual	Repair of potholes, ruts, gullies with gravel	m ³	648	
Bill 22	Dayworks / Emergencies	LS	1		
Bill 25	HIV / AIDS awareness and prevention campaign	LS	1		
TOTAL INSTRUCTED WORKS					

ANNEX 7
**(Bill 5 – AFD/EU/ TN/LVS/1/2023/24 - ITUGURURU-
KAMAENDE ROAD)**

Bill of Quantities					Page 4
Bill 5	Earthworks	PROJECT: ITUGURURU KAMAENDE ROAD			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
	<i>NOTE: No separate payment shall be made for the haulage of material and the cost of such haulage shall be included in the rates and/or prices</i>				
05-50-001	Re- Establishment of the Vertical Alignment	m	6,000		
05-05-002	Side drains Excavation (<i>Soft material</i>)	m ³	9,370		
05-05-003	Side drains Excavation (<i>Hard material</i>)	m ³	469		
05-50-006	Fill in soft material including benching of shoulders and embankments and compact to 95% MDD (AASHTO T99) in layers of 150mm as directed by the Engineer	m ³	17,984		
05-50-007	Fill in hard material & Compact as directed by the Engineer	m ³	450		
05-50-008	Spoil excess material from side drains excavation both in soft and hard material	m ³	2,500		
05-50-010	Cut to fill and compact soft material on benched sections to a density of 100% Modified AASTHO T99 in soft material	m ³	9,232		
05-50-016	Scarify water and compact existing ground (Including ripping off any bituminous material and breaking it into pieces) to at least 95%MDD (AASHTO T180) to a depth not exceeding 150mm	m ³	0		
05-60-006	Provide selected materials for improvement of sub-grade of minimum soil Class G30 (CBR 30%): haul, dump and spread the material including Overhaul	M ³	6,280		
05-50-014	Grassing	M ²	19,200		
Bill 5: Total Carried forward to Summary:					

ANNEX 8
(Bill 10 – AFD/EU/LKP/GR/1/2023/24)

Bill of Quantities					Page:
					9
Bill 10	Grading and Gravelling Works	Project: BABITO - SOLIO VILLAGE ROAD - BATCH 1			
Item	Description	Unit	Quantity	Unit rate	Amount
No.				Ksh.	KSh.
	<i>NOTE: No separate payment shall be made for the haulage of material and the cost of such haulage shall be included in the rates and/or prices</i>				
			0		
10-60-001	Provide gravel wearing course-including excavation, Overhaul, spread and compact gravel By Labour/Equipment	m ³	10,648.94		
10-50-001	Carriageway Grading - Heavy	m ²	21000		
10-50-003	Carriageway Grading - Light	m ²	17500		
Bill 10: Total Carried forward to Summary:					

ANNEX 9
(SOLOLO TOWN – MADO ADHI - WAYEGODDA)

IMPLEMENTATION OF GOK/EU/AFD ROADS 2000 CLIMATE PROOFED RURAL ROADS IN ARID AND SEMI-ARID LANDS (ASAL)		
AREA 2 BATCH 1: MARSABIT COUNTY		
ROAD NAME:	Sololo-Mado Adhi (Km 0+000 - Km 1+000))	
ROAD No.:	G412182 - 02	
SUMMARY OF BILL OF QUANTITIES		
01. REHABILITATION AND IMPROVEMENT WORKS		
Item No.	Description	Amount (Kshs)
1	Preliminary and General Costs Items	
3	Setting Out	
4	Site Clearance	
5	Earthworks	
7	Excavation and filling for structures	
8	Culverts and Drainage works	
9	Traffic Control	
10	Grading and Gravelling Works	
20	Road Furniture	
22	Dayworks (Provisional) Schedule of Rates	
25	Cross Cutting issues	
Major Structures	Km 0+200 (4 Cell 1200 Ø CPC)	
	Km 0+250 (4 Cell 1200 Ø CPC)	
	Km 0+300 (4 Cell 1200 Ø CPC)	
	Km 0+510 (4 Cell 1200 Ø CPC)	
	Km 0+700 (4 Cell 1200 Ø CPC)	
Sub Total (01a)		
Add provisional sum of 10% of the Sub Total for Contingencies to be expended only with the express approval of the Engineer (01b)		
Sub Total (01c = 01a + 01b)		
Add 16% VAT (01d)		
Total – Improvement Works (01c + 01d)		

IMPLEMENTATION OF GOK/EU/AFD ROADS 2000 CLIMATE PROOFED RURAL ROADS IN ARID AND SEMI-ARID LANDS (ASAL)	
AREA 2 BATCH 1: MARSABIT COUNTY	
ROAD NAME:	Sololo-Mado Adhi (Km 0+000 - Km 1+000)
ROAD No.:	G412182 - 02
SUMMARY OF ROUTINE MAINTENANCE WORKS	
02. PERFORMANCE AND INSTRUCTED BASED ROUTINE MAINTENANCE WORKS	
Description	Amount (Kshs)
Summary of Performance Based and Instructed Routine Maintenance Works	
Sub Total (02a)	
<i>Add provisional sum of 10% of the Sub Total for Contingencies to be expended only with the express approval of the Engineer (02b)</i>	
Sub Total (02c = 02a + 02b)	
<i>Add 16% VAT (02d)</i>	
Total - Maintenance Works (02c + 02d)	

IMPLEMENTATION OF GOK/EU/AFD ROADS 2000 CLIMATE PROOFED RURAL ROADS IN ARID AND SEMI-ARID LANDS (ASAL)		
AREA 2 BATCH 1: MARSABIT COUNTY		
ROAD NAME:	Sololo-Mado Adhi (Km 1+000 - Km 4+300)	
ROAD No.:	G412182 - 02	
SUMMARY OF BILL OF QUANTITIES		
01. REHABILITATION AND IMPROVEMENT WORKS		
Item No.	Description	Amount (Kshs)
1	Preliminary and General Costs Items	
3	Setting Out	
4	Site Clearance	
5	Earthworks	
7	Excavation and filling for structures	
8	Culverts and Drainage works	
9	Traffic Control	
10	Grading and Gravelling Works	
20	Road Furniture	
22	Dayworks (Provisional) Schedule of Rates	
25	Cross Cutting issues	
Major Structures	Km 2+300 (70m x 6.0m vented Drift)	
Sub Total (01a)		
Add provisional sum of 10% of the Sub Total for Contingencies to be expended only with the express approval of the Engineer (01b)		
Sub Total (01c = 01a + 01b)		
Add 16% VAT (01d)		
Total – Improvement Works (01c + 01d)		

IMPLEMENTATION OF GOK/EU/AFD ROADS 2000 CLIMATE PROOFED RURAL ROADS IN ARID AND SEMI-ARID LANDS (ASAL)	
AREA 2 BATCH 1: MARSABIT COUNTY	
ROAD NAME:	Sololo-Mado Adhi (Km 1+000 - Km 4+300)
ROAD No.:	G412182 - 02
SUMMARY OF ROUTINE MAINTENANCE WORKS	
02. PERFORMANCE AND INSTRUCTED BASED ROUTINE MAINTENANCE WORKS	
Description	Amount (Kshs)
Summary of Performance Based and Instructed Routine Maintenance Works	
Sub Total (02a)	
Add provisional sum of 10% of the Sub Total for Contingencies to be expended only with the express approval of the Engineer (02b)	
Sub Total (02c = 02a + 02b)	
Add 16% VAT (02d)	
Total - Maintenance Works (02c + 02d)	

ANNEX 10
(AFD/EU/SA/GR/01C/2023/24 – BARAGOI –
MASIKITA – SEREOLUPI 01C ROAD)

ROAD NAME:	Baragoi-Masikita 01C (10Km)				
ROAD No.:	C605 - 01C				
STRUCTURE:	Km 29+700 - 30m x 6.0m Drift				
SUMMARY OF STRUCTURE BILL OF QUANTITIES					
Item No.	Description				Amount (Kshs)
5	Earthworks				
7	Excavation and filling or structures				
8	Culverts and Drainage works				
17	Concrete Works				
20	Road Furniture				
	Sub Total Forwarded to Summary Page				
BILL OF QUANTITIES					
Item No.	Description	Unit	Quantity	Unit Rate Ksh.	Amount (Ksh.)
Bill No. 5	Earthworks				
	Material Filling				
05-50-006	Fill in soft material including benching of shoulders and embankments and compact to 95% MDD (AASHTO) in layers of 150mm as directed by the Engineer	m³	60		
05-50-007	As in Item 05-50-006 but in Hard material	m³	30		
	Material Cutting				
05-50-008	Cut to spoil in soft	m³	80		
05-50-009	Cut to spoil in hard	m³	10		
	Improved Subgrade				
05-60-014	Provide, place and compact to 95%MDD ASHTO T99 improved subgrade of CBR > 15%, in layers of 150mm as specified or as by directed by the Engineer.	m³	80		
Bill 5: Total Carried Forward to Summary ABOVE:					
Bill No. 7	Excavation and filling for structures				
07-50-001	Excavation for drainage structures in soft material (Mechanical)	m³	400.00		
07-50-002	Excavation for drainage structures in hard material	m³	100.00		
07-50-006	Backfill and Compaction excavated area to foundation level with Selected Granular Fill Material in accordance with the specifications and in conformity with the Engineer's instruction	m³	580.00		
07-60-013	Place, Provide and Compact rockfill to specifications below structure	m³	10.00		
07-60-001	Excavation in soft material to any depth, compaction of the surfaces to receive the gabions, backfilling with the excavated materials or hauling to spoil excavated all in accordance with the specifications and in conformity with the Engineer's instructions	m²	350.00		
07-60-006b	Provide and place filter fabric (300g/m2) under or behind gabions	m²	25.00		
07-60-002	Provide and place 2mx1mx1m gabion mesh boxes or 6mx2mx0.3m gabion mattresses, complete with rockfill, as directed by the Engineer	m³	50.00		
07-60-005	Provide and place 250mm thick stone pitching including grouting, and including removal of spoil, to drains, slopes, inlets and outlets, as directed by the Engineer	m²	15.00		

Annex 11

ENVIRONMENTAL & SOCIAL MITIGATION COMPLIANCE TOOL

ENVIRONMENTAL MITIGATION MEASURES MONTHLY INSPECTION STATEMENT

	Item	Mitigation measure	Monthly Requirement	Compliance	Non Compliance	Percentage Non-Compliance
1	Noise mitigation	· 5 days' notice to Schools, hospitals and other noise sensitive areas:	1			
		· Construction workers will be required to wear ear muffs in areas exposed to excessive noise levels;	1			
		· The Contractor shall keep noise level within acceptable limits and construction activities shall, where possible, be confined to normal working hours in the residential areas	1			
	Air pollution	· Workers shall be trained on dust minimisation techniques	1			
		· Water sprays shall be used on all earthworks areas within 200 metres of human settlement.	1			
		· Vehicle speeds shall be limited to minimise the generation of dust on site	1			
2	Vegetation Loss	· The clearance of the site for construction purposes shall be kept to a minimum	1			
		· Areas to be cleared should be agreed and demarcated before the start of the clearing operations	1			
		· Clearing and removal of vegetation, especially at borrow sites must be carried out in such a way that damage to adjacent areas is prevented or minimised	1			
		· Areas with dense indigenous vegetation are not to be disturbed unless required for construction purposes	1			
3	Impacts on soils and drainage	· Wherever possible, earthworks should be carried out during the dry season to prevent soil from being washed away by the rain	1			
		· Excavated materials and excess earth should be kept at appropriate sites	1			
		· The earth dumping sites should be designed in such a manner as to facilitate natural water discharge	1			
		· The Contractor shall protect areas susceptible to erosion by installing necessary temporary and permanent drainage works as soon as possible	1			
		· Where new culverts are to be installed, consultation with people settled there will be required to avoid possible conflicts that may arise due to channelling of water	1			
		· The Contractor shall not divert a dam or modify any watercourse without the approval of the Regional Director and relevant authorities as required by the law	1			
4	Impacts on water resources	· The contractor should consult the community on partitioning of access to this resource for construction purposes	1			
		· Abstractions shall be approved by the Water Resources Management Authority.	1			
5	Solid Waste	· All personnel shall be instructed to dispose of all waste in a proper manner	1			
		· At all places of work the contractor shall provide litter collection facilities	1			

ENVIRONMENTAL MITIGATION MEASURES MONTHLY INSPECTION STATEMENT

	Item	Mitigation measure	Monthly Requirement	Compliance	Non Compliance	Percentage Non-Compliance
		<ul style="list-style-type: none"> The final disposal of the site waste shall be done at the location that shall be approved by the Regional manager, after consultation with local administration and local leaders 	1			
		<ul style="list-style-type: none"> The provision of sufficient bins (preferably vermin and weatherproof) at the camp and work sites to store the solid waste produced on a daily basis; 	1			
		<ul style="list-style-type: none"> The spoil area should preferably be located on land already cleared wherever possible. Communities shall be involved in the site location to avoid destruction of any ritual site or any other conflict; 	1			
		<ul style="list-style-type: none"> The development and rehabilitation of spoil areas 	1			
6	Liquid wastes	<ul style="list-style-type: none"> No grey water runoff or uncontrolled discharges from the site/working areas 	1			
		<ul style="list-style-type: none"> Water containing such pollutants as cements, concrete, lime, chemicals and fuels shall be discharged into a conservancy tank for removal from site 	1			
		<ul style="list-style-type: none"> Potential pollutants of any kind and in any form shall be kept, stored and used in such a manner that any escape can be contained and the water table not endangered; 	1			
		<ul style="list-style-type: none"> Hazardous materials shall not be stored within 2 kilometres of the top water level of public water supply reservoirs; 	1			
		<ul style="list-style-type: none"> Hazardous materials shall be stored above flood level and at least 20 metres from any watercourse; 	1			
		<ul style="list-style-type: none"> Areas for the storage of fuel and other flammable materials shall comply with standard fire safety regulations; 	1			
7	Fire Incidences	<ul style="list-style-type: none"> The Contractor shall ensure there is control of potential fire ignition points; 	1			
		<ul style="list-style-type: none"> The Contractor shall ensure that there is basic fire-fighting equipment available on site; 	1			
		<ul style="list-style-type: none"> Flammable materials should be stored in approved conditions 	1			
		<ul style="list-style-type: none"> Smoking shall not be permitted in those areas where there is a fire hazard. 	1			
		<ul style="list-style-type: none"> The Contractor shall ensure that all site personnel are aware of the fire risks and how to deal with any fires that occur. 	1			
Total for the Month			35			
Total Contract Sum bill item 25.50.002						
Total Contract Period						
Monthly						
Percentage Compliance						
Amount Due For the Month						