COUNTY GOVERNMENT OF MERU



OFFICE OF THE GOVERNOR

DEPARTMENT FOR TRANSPORT AND INFRASTRUCTURE

DRAINAGE WORKS

FY: 2016/2017 NTIMA WEST WARD TENDER NO: CGM/ONT/041/2016/2017

THE COUNTY SECRETARY
THE COUNTY GOVERNMENT OF MERU
P.O BOX 120-60200
MERU

1 Table 1: Summary of Instructions to the Tenderers

Item	ı #.	Mandatory qualification Requirements						
1		ELIGIBILITY - Copy of National ID or passport for all Directors						
		BID SECURITY - Unconditional guarantee, in the format and conditions provided						
2		Must be valid for 150days						
3		Attending pre-tender site visit for the works.						
4		Certified Copy of Certificates of Registration/Incorporation.						
5		Principal place of business (attach business permit or trading license)						
6		Certified Certificate of registration with National Construction Authority						
7		Certified Copy of Tax compliance certificate						
8		Properly and dully filled Form of Tender						
9		Properly and dully filled Tender Questionnaire						
10		Properly and dully filled Confidential Business Questionnaire						
	_	Technical Qualification Requirements						
11		Financial Capacity						
	1	Company turnover for the last two years						
	2	Profitability of the company for the last two years						
	3	Past two years Audited Financial Reports of the tenderer						
	4	Current one year Bank statement.						
12		Contractual misconducts and litigation - Legal Capacity/Litigation History (attach						
		affidavit)						
13		Experience (5 YEARS AND ABOVE)						
		Bidder to submit the following						
		- Completion certificate, Taking Over Certificate or Substantial Completion Certificate						
		of relevant work in the previous 5 years						
		- Value of ongoing work must be < 50% of						
	Α	Charifia Europianas in Deletad Warks. Attack portificate of completion						
14		Specific Experience in Related Works - Attach certificate of completion Key personnel - Provide List of professional and technical staff and their resume -						
14		General Experience (CV), - Certified Qualification Certificate						
	b	Site Agent - Degree (Civil Engineering)						
	С	Foreman -Diploma(Civil Engineering)						
		Fundis - Certificate(Civil Engineering)						
	С	Fundis - Certificate(Civil Engineering)						
15	Α	Equipments						
		Bidder to submit the following - Ownership list of required equipment and/or						
		Authorization letter of hiring from M&T or reputable hiring company						
16		Registration as a contractor with NCA						

			, , , , , , , , , , , , , , , , , , , ,
		1. NCA 1 [building/roads]	
		2. NCA 2 [building/roads]	
		3. NCA 3 [building/roads]	
		4. NCA 4 [building/roads]	
		5. NCA 5 [building/roads]	
		6. NCA 6 [building/roads]	
		7. NCA 7 [building/roads]	
17		W 1: 01 11 15 : 1 10 15	
	а	Working Schedule and Projected CashFlow.	
		Bidder to submit the following Proposals	
		1. Signed work program chart	
		2. Signed Cash flow plan during the	
40		Contract period.	
18		Certification as true the above information	
		The formula for determining financial score is GIVEN in the document as	
		follows:	
19		The formulae for determining the Financial Score (Sf) shall: - Sf = 100 X FM/F where Sf is the financial score; Fm is the lowest priced tender and F is the price of the tender under consideration. Tenders will be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T=the weight given to the Technical score: P = the weight given to the Financial score; T + p = I) indicated in the Appendix. The combined technical and financial score, S, is calculated as follows: - S = St x T % + Sfx P %. Appendix to information to TENDERERS. Assigns weight of 0.8 to technical score and 0.2 to financial score.	

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INVITATION FOR TENDERS

DRAINAGE WORKS

1.1	The County Government of Meru invites sealed tenders for the ROAD DRAINAGE
	WORKS and Routine maintenance of the above mentioned roads respectively.

- 1.2 Interested eligible candidates may obtain further information and inspect tender documents at MERU COUNTY HEADQUATERS, ROOM 118, MERU COUNTY GOVERNORS OFFICES, BOX 120 MERU during normal working hours.
- 1.3 A complete set of tender documents may be obtained by interested candidates free of charge.
- 1.4 Tender surety security in the amount of 2% of the tendered sum is required as detailed in the instructions to bidders.
- 1.4 Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for 90 days from the closing date of tender.
- 1.6 Tenders will be opened immediately thereafter in the presence of the candidates or their representatives who choose to attend.

	(Signed)
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2 FORM OF TENDER

TO: C	HIEF EXCECUTI MERU COUNTY								URE
		Nan	ne of Co	ntract: DRA	INAGE W	ORKS			
Dear S 1.	In accordance Bills of Quanti the undersign remedy Kshs. Shillings	ties/Sch ned offe any	nedule o er to co defect	f Rates for tonstruct, in there	he execustall and in mount	ution of to d comple for to in	he ab ete s the	oove Works, such Works sum	We, and of
2.	We undertake commencement the Contract v	nt da	te and t	o complete	the who	ole of the			
3.	We agree to abide by this Tender until[Insert date], and it shall remain binding upon us and may be accepted at any time before that date.								
4.	Unless and ur together with Contract betw	your	written	_					
We u	nderstand that receive.	you are	e not bo	ound to acce	ept the l	owest or	any	tender you	may
Dated	this		da	ay of	20			-	
Signat	ure		in the	capacity of	f			-	
duly	authorized	to	sign	Tenders				behalf Tenderer]	of of
Witne	ss: Name			[Addı		enderer] 			
	Address								
	Signature_								

Date
AGREEMENT BETWEEN THE GOVERNMENT OF THE REPUBLIC OF KENYA
AND
This Contract is made this
Name of the project: DRAINAGE WORKS
County: Meru. Constituency: IMENTI NORTH Ward: NTIMA WEST
and has accepted the Offer of the Contractor to execute improvement and maintenance works as defined hereinafter, AND Whereas the Contractor represented to the Employer that he has the required capacity and ability, and has agreed to execute the Works on the Terms and Conditions set forth in this Contract, for the Tender Sum of Kshs

NOW THEREFORE the Parties hereto agree as follows:

Article 1: GENERAL PROVISIONS

1.1. The documents forming the Contract are to be taken as mutually explanatory. If ambiguity or discrepancy is found in the documents the Employer shall issue necessary instructions to the Contractor.

The language of the Contract shall be English. The law of the Contract is the Republic of Kenya.

Article 2: OBLIGATIONS OF THE EMPLOYER

- The Employer shall provide the Site and right of access thereto at the date of Commencement.
- The Employer shall ensure that the Contractor's claims for payment are settled timeously.
- The Employer shall inspect the Contractor's work regularly.
- No approval or consent or absence of comment by the Employer shall affect the Contractor's obligations.

Article 3: EMPLOYER'S REPRESENTATIVE

- The County Government of Meru will have overall responsibility for the Contract, and will be represented by the Department of transport and Infrastructure for the day-to-day management of the Contract.
- 3.3. The Chief Executive Officer shall provide the Contractor with an initial Work plan against which the Contractor shall carry out the Works. The Chief Executive Officer shall be entitled to vary the Work plan according to circumstances and to issue instructions to the Contractor accordingly.

Article 4: CONTRACTOR'S OBLIGATIONS

- The Contractor shall carry out the Works described in Annex 1 and the Work Plan Annex 3 properly and in accordance with the Contract. The Contractor shall provide all supervision, labour and tools which may be required.
- The Contractor shall submit to the Employer for consent the name and particulars of the person authorized to receive instructions on behalf of the Contractor.
- The Contractor shall comply with all instructions given by the Employer in respect of the Works.

- The Contractor shall not subcontract any part of the Works without the consent of the Employer.
- The Contractor shall, in the implementation of this contract, use labour based methods whenever possible.
- The Contractor shall recruit labour for the Works from the local communities and shall take particular note of the Government policy on the recruitment of women and youth. The target for each group shall be 30% of the labour force, which the Contractor shall take all possible measures to attain.
- The Contractor shall comply with the Kenya Labour Laws in respect of the rights working conditions and wages for the labour force. The task rates set for labour shall be approved by the Engineer.
- In the event of the failure of the Contractor to pay the labour the Employer shall be entitled to pay directly and to deduct the appropriate amount, plus a 10% administrative charge, from any monies due to the Contractor under the Contract.
- The Contractor shall maintain records of time worked and remuneration paid to his/her employees and shall avail these records to the Employer for inspection when so requested.
- The Contractor shall set fair and manageable task rates to each labourer, in consultations with the Employer.

Article 5: DESIGN BY CONTRACTOR

The Contractor shall not be responsible for any Works design.

Article 6: EMPLOYER'S RISKS

6.1 Any failure by the Employer and any delay or disruption caused by any Variation is the relevant Employer's Risks.

Article 7: TIME FOR COMPLETION

- 7.2 The Contractor shall be entitled to an extension of the Time for Completion where delay is caused by an action, or failure of action of the Employer and/or

any other unforeseen circumstance. All such extension of time must be requested by the contractor timeously and approved by the Employer

Article 8: TAKING OVER

8.1. The Contractor may notify the Employer when the Works are considered to be complete.

The Employer shall notify the Contractor when he considers that the Contractor has completed the Works and stating the date accordingly. Alternatively the Employer may notify the Contractor that the Works, although not fully complete, are ready for taking over, stating the date accordingly. The Contractor shall promptly complete any outstanding work.

Article 9: REMEDYING DEFECTS

9.1. The Employer may, within one month after the Completion date in 8.2, notify the Contractor of any defects. The Contractor shall remedy at no cost to the Employer any defects due to the Contractor's workmanship not being in accordance with the Contract.

Article 10 VARIATIONS AND CLAIMS

The Employer may instruct Variations

The Employer shall value the Variations using appropriate rates within the Contract or by a lump sum price agreed between the Parties, or by new rates which the Engineer considers appropriate.

Article 11: CONTRACT PRICE AND PAYMENT

At not less than monthly intervals, the Contractor shall measure the Works in accordance with the Bill of Quantities and shall submit a statement to the Road Supervisor. No Payment shall be made for Mobilisation and Establishment of the Site. The Road Supervisor shall certify on the statement to the Engineer that the Works have been completed satisfactorily.

The Employer shall pay the Contractor, upon the Engineer's approval of the Contractor's statement, within 30 days of the date of the certification of the statement. If the Employer disagrees with any part of the Contractor's statement, he shall specify his reasons for disagreement when making payment. The Employer shall not be bound by any sum previously considered by him to be due to the Contractor

Article 12: DEFAULT

The Employer shall give notice to the Contractor where he considers the Contractor to be in default of the Contract. If the Contractor fails to remedy the default within a stated period the Employer may give notice of the termination of the Contract.

After termination the Contractor shall be entitled to payment of any unpaid balance of the value of the Works executed.

Article 13: RISK AND RESPONSIBILITY

The Contractor shall take responsibility for the care of the Works from the Commencement Date to the date of Take Over.

Article 14: INSURANCES

The Contractor, prior to commencing the Works, shall effect Third Party and Workers Compensation Insurances and provide evidence to the Employer that the required policies are in force.

Article 15: RESOLUTION OF DISPUTES

The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with the Contract.

Any dispute not resolved under 15.1 shall be referred to a single Arbitrator nominated by in whose Area the Contract is located in accordance with, and subject to the provision of the Arbitration Act of Kenya or any Statutory Modification thereof.

Article 16 CONDITIONS OF CONTRACT

It is understood that these Conditions of Contract follow the FIDIC Short Form of Contract which shall be referred to for any necessary clarification

It is hereby understood that the Annexes to the Contract shall be read together with the Contract and shall form an integral part of it.

ln	witness	where	of of	the d	uly a	authoris	ed rep	oresent	tatives	of the	Parties	hereto	have
	sign	ned t	his	Contra	act	the	day	and	the	year	first	written	at
	•••••		•••••	Keny	/a.								

For and on behalf of the Government of kenya

County government of Meru	Contractor
Department of roads and Infrastructure	
•	•••••
Witness	Witness

2.1.1 EXTENT OF WORKS

The works to be executed under this Contract comprise the following:-

GRAVELLING WORKS

BILL 01: PRELIMINARY AND GENERAL ITEMS

Scope:

This bill comprises those items that are required at the Commencement and Completion of the Works or that are Provisional Items applicable for the duration of the Works.

01-50-001 Mobilization and Establishment of the Site

The Contractor shall provide all equipment, tools, materials, temporary offices, stores and housing required to carry out the Works.

The Contractor shall ensure that all possible means of protection are given to the labour force at all times. Such protection shall include provision of high visibility clothing or vests, goggles and masks for workers in potentially dangerous locations or dealing with potentially harmful materials. The Contractor shall also maintain first aid kits with a minimum of the following items:-

- Non Stick wound dressing
- Selection of plaster/band aids
- Crepe bandages
- Gauze and cotton wool
- Antiseptic solution (washing wounds)
- Antiseptic cream Betadine, Burnol
- Pain killers Panadol, Disprin
- Anti diarrhoea Immodium, Diadis, Charcoal
- Anti histamine Piriton, Triludan
- Anti nausea Stemetil
- Eye ointment
- Oral re-hydration sachets
- Surgical gloves

Measurement and Payment: NA

01-60- 001

Contract Supervision

Provisional sum available for the Engineer for expenses incurred for supervising the contract such as allowances, casual wages and transportation within the

project area.

Measurement and Payment:

Provisional Sum: Payable by the Contractor to the Engineer through certification as

directed by the Engineer. No mark up is included in this item.

Work Method: NA

01-60-002 Clearance on Completion

On Completion of the Works, all temporary housing, equipment, signs and tools shall be removed from the site, and the site left in good order to the satisfaction of the

Engineer.

Measurement and Payment

The Lump Sum payment will be made upon approval by the Engineer that the

Clearance has been satisfactorily carried out.

Work Method: NA

01-60-003 Insurance

The Contractor shall provide Insurance in accordance with the Conditions of Contract as indicated in the Appendix to form of tender for Rehabilitation and

Improvement Contracts and Clause 14.1 for small works conditions of contract.

Measurement and Payment

Lump Sum payment for this item will be made upon the production of satisfactory

evidence by the Contractor that Insurances have been affected.

Work Method: NA

01-60-004 Quality Control Tests

The Engineer may instruct the Contractor during the progress of the Works to carry out quality control tests to check materials and standards of workmanship, against the Specifications.

Where such tests indicate defective standards the Engineer shall instruct the Contractor to rectify the defects to the Engineer's satisfaction and at the Contractor's expense.

The Engineer shall include a Provisional Sum for this item to be expended only as and when the Contractor is instructed to carry out tests at approved material testing laboratories.

Measurement and Payment

Reimbursable item based on actual costs incurred by the contractor including sampling, transportation and testing.

Work Method: NA

01-60-006 Drinking Water

The Contractor shall provide safe drinking water on site for workers at a reasonable distance from all work locations, for the duration of the Works.

Quality Control

The Engineer shall check regularly that adequate supplies of water are available throughout the Site.

Measurement and Payment

A Lump Sum shall be paid on a Monthly basis upon the approval of the Engineer that adequate supplies have been provided.

Work Method:

01-60-007 Provision of site sanitation facilities

The Contractor shall provide sanitation facilities on site for workers at a reasonable distance from all work locations, for the duration of the Works. This can be in the form of shallow pit latrines that are appropriately covered. All shallow pit latrines shall be filled in after the end of use.

01-60-004 Quality Control Tests

The Engineer may instruct the Contractor during the progress of the Works to carry out quality control tests to check materials and standards of workmanship, against the Specifications.

Where such tests indicate defective standards the Engineer shall instruct the Contractor to rectify the defects to the Engineer's satisfaction and at the Contractor's expense.

The contractor when instructed shall carry out tests at approved material testing laboratories.

Measurement and Payment

It is deemed that the contractor shall include all costs for material testing in his rates and therefore no separate payments shall be made.

Work Method: NA

01-60- 006 Drinking Water

The Contractor shall provide safe drinking water on site for workers at a reasonable distance from all work locations, for the duration of the Works.

Quality Control

The Engineer shall check regularly that adequate supplies of water are available throughout the Site.

Measurement and Payment

A Lump Sum shall be paid on a Monthly basis upon the approval of the Engineer that adequate supplies have been provided.

Work Method: LB

01-60-007 Provision of site sanitation facilities

The Contractor shall provide sanitation facilities on site for workers at a reasonable distance from all work locations, for the duration of the Works. This can be in the form of shallow pit latrines that are appropriately covered. All shallow pit latrines shall be filled in after the end of use.

BILL 08: CULVERT AND DRAINAGE WORKS

This bill covers all Works in connection with the installation of concrete pipe culverts; inlet and outlet structures; drifts and drainage protection Works; and the construction of Scour Checks

08-50-002: Ditch Cleaning

i Partially silted

Partially silted drains are those that are less than half silted and require only cleaning.

All deposited material, debris, and vegetation shall be removed and the drain shaped to the original cross section and left in a free-draining condition. Suitable material may be used to fill depressions and potholes on the carriageway. All debris and other unsuitable material removed from the side drains shall be disposed of well clear of the drainage system in approved spoil dumps where it will not cause any obstruction or be washed back.

The side drains, mitre drains and catch water drains shall be cleaned before the onset of the rains or as directed by the Engineer.

This activity shall be carried out either as Machine Based, Labour Based or a mixture of the two as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: LB, MB, LB-MB

Quality Control

Appropriate drain templates shall be used to check and control the dimensions of the drains. The longitudinal profile of the drains shall be checked using boning rods, to ensure free flow.

Measurement Unit: m

The measurement shall be the length of drain desilted or cleaned to the specified cross section.

Payment

The unit rate shall be full compensation, for labour, tools, and incidental costs required to carry out the work.

ii Fully silted

Fully silted drains shall be those that are greater than half-silted and require reexcavation or reshaping.

All deposited material, debris, and vegetation shall be removed and the drain shaped to the original cross section and left in a free-draining condition. Suitable material may be used to fill depressions and potholes on the carriageway. All debris and other unsuitable material removed from the side drains shall be disposed of well clear of the drainage system in approved spoil dumps where it will not cause any obstruction or be washed back.

The side drains shall be desilted or re-excavated before the onset of the rains, or as directed by the Engineer.

This activity shall be carried out either as Machine Based, Labour Based or a mixture of the two as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: LB, MB, LB-MB

Quality Control

Appropriate drain templates shall be used to check and control the dimensions of the drains. The longitudinal profile of the drains shall be checked using boning rods, to ensure free flow.

Measurement Unit: m

The measurement shall be the length of drain re-excavated or re-shaped to the specified cross-section.

Payment

The unit rate shall be full compensation for equipment, labour, tools, and any incidental costs required to carry out the work.

08-50-003: Ditch Works earth fills.

This activity involves the reinstatement/protection works of culvert outlets by filling the resultant eroded ditch gullies with specified suitable soft material to ensure free passage of water at all times without causing further damage. The ditch shall be excavated to firm ground and shaped to the required suitable shape (depth, width, levelled and smoothened) to the satisfaction of the engineer prior to filling. The fill material shall be deposited in layers as directed by the Engineer.

The filling shall be carried with approved soft material and compacted in layers not exceeding 150 mm loose depth or in thickness that shall not exceed the maximum that the equipment and method of operation can process to meet the required compaction as directed by the Engineer.

The Contractor shall first reshape the eroded ditch gullies to suitable shapes for working, remove any unsuitable materials, supply, dump, spread and process and compact in accordance with Section 508 of the Standard Specifications or as instructed by the engineer.

Work Method: LB-MB

Quality Control:

The Engineer shall approve the borrow materials, measure the volume of the borrow fill materials, the compaction achieved of each layer and the gradient of the out fall to avoid further erosion.

Measurement Unit: m³

The measurement shall be the volume of the fill material excavated, transported and deposited to fill the ditch gullies.

Payment:

The unit rate shall be the full compensation for all labour, materials, tools, equipment and incidental costs required to complete the work.

08-50-004: Ditch Works rock fills. Supply and fill

This activity involves the reinstatement/protection works of culvert outlets by filling the resultant eroded ditch gullies with specified suitable hard material to ensure free passage of water at all times without causing further damage. The ditch shall be excavated to firm ground and shaped to the required suitable shape (depth, width, levelled and smoothened) to the satisfaction of the engineer prior to filling. The fill material shall be deposited in layers as directed by the Engineer.

The filling shall be carried with approved hard material and compacted in layers not exceeding 150 mm loose depth and systematically compacted by at least 8 passes of a towed vibrating roller weighing not less than 5 tonnes dead weight or in thickness that shall not exceed the maximum that the equipment and method of operation can process to meet the required compaction as directed by the Engineer. During compaction the surface of the layer shall be watered as necessary to facilitate the filling of the voids with the blinding material.

The Contractor shall first reshape the eroded ditch gullies to suitable shapes for working, remove any unsuitable materials, supply, dump, spread and process and compact in accordance with Section 508 of the Standard Specifications or as instructed by the engineer.

Work Method: LB-MB

Quality Control:

The Engineer shall approve and measure the volume of the hard materials, the compaction achieved of each layer and the gradient of the out fall to avoid further erosion.

Measurement Unit: m³

The measurement shall be the volume of the hard material excavated, transported and deposited to fill the ditch gullies to the desired level.

Payment:

The unit rate shall be the full compensation for all labour, materials, tools, equipment and incidental costs required to complete the work.

08-50-005: Ditch/Mitre Drains/Catch water Drains

The Contractor shall excavate side drains, mitre drains and catch water drains to the dimensions shown on the Drawings and at locations as directed by the Engineer. They shall be excavated in a manner to minimise erosion at the discharge point. The material excavated from the drains shall be used to form the side drain bund directing water to the mitre-drain, and a bund on the lower side of the cut-off drain, or used for forming camber or disposed of as directed by the Engineer.

This activity shall be carried out either as Machine Based, Labour Based or a mixture of the two as defined in the Bills of Quantity or as instructed by the Engineer.

Work Method: LB, MB, LB-MB

Quality Control

- The longitudinal profile shall have a gradient of maximum 4%.
- The dimensions of the drains shall have maximum tolerances of +20mm
- The location of the drains shall be approved by the Engineer.

Measurement Unit: m³

The measurement shall be the volume of material excavated as measured on site in approved drains.

Payment

The unit rate shall be full compensation for labour, tools, equipment and incidental costs required for carrying out the work.

08-60-016 08-60-021/029 Supply and Installation of Concrete Pipe Culverts

08-60-016	300	mm	unhaunched
08-60-021	300	mm	surrounds
08-60-022	450	mm	unhaunched
08-60-023	450	mm	surrounds
08-60-024	600	mm	unhaunched
08-60-025	600	mm	surrounds
08-60-026	900	mm	unhaunched
08-60-027	900	mm	surrounds
08-60-028	1200	mm	unhaunched
08-60-029	1200	mm	surrounds

The Contractor shall supply, lay and join concrete pipes to form culverts, including the concrete bedding; haunching or surrounds; and backfilling, in accordance

with the Drawings for the Type and diameter specified in the Contract or directed by the Engineer.

The pipes shall be of Class 20/20 concrete, at least 28 days cured, and manufactured on site or procured from a supplier approved by the Engineer and preferably ogee jointed. The pipes shall be laid on a bedding of Class 15/20 concrete of dimensions as shown on the Drawings and jointed with cement mortar 1:4.

The culvert gradient including the outlet shall be a minimum 2%.

The pipes shall be surrounded with Class 15/20 concrete to the dimensions shown on the Drawings or as directed by the Engineer.

Backfilling shall be carried with approved material and compacted in layers not exceeding 150 mm loose depth and placed evenly on each side of the pipe. Ramps shall be shaped to achieve a minimum overfill of 75% of the pipe diameter, and shall be tapered back on the carriageway to provide a gradual approach, as directed by the Engineer.

If the Contractor wishes to construct culverts on site, using inflatable or collapsible forms the Engineer's approval shall first be sought for the proposed working method.

On completion the inside of the culvert shall be smooth, without displaced joints or other obstructions and true to line and level.

The Contractor shall use **Labour** and appropriate compaction **Equipment** to carry out this item work

Work Method: LM-MB

Quality Control

- Concrete quality shall be checked for cracks, honey combing, and other defects.
- Before the pipes are laid, the gradient of the concrete bedding shall be checked and shall not be less than 2%
- The joints shall be checked to see that they have been properly made.

Measurement Unit: m

The measurement shall be in linear metres of the installed Type and size of culvert specified, measured net according to the Drawings.

Payment

The unit rate shall be the full compensation for labour, tools, materials, equipment and any other incidentals that may be required in carrying out the work.

08-60-030	Excavate in soft material for culverts
08-60-031	Excavate in hard, material for culverts
08-60-032	Provide, lay and join 450mm inner dia. Concrete pipes
08-60-033	Provide, lay and join 600mm inner dia. Concrete pipes
08-60-034	Provide, lay and join 900mm inner dia. Concrete pipes
08-60-035	Provide, compact class 15/20 concrete
08-60-036	Provide, compact class 20/25 concrete
08-60-037	Provide and place A142 fabric mesh reinforcement
08-60-038	Selected backfill materials

These activities should be done in accordance with Bill 8, sub clauses 8.01 to 8.20 in the Standard Specifications for Roads and Bridges 1986.

The Contractor shall use both **Labour** and appropriate **Equipment** to carry out this item.

Work Method: LM-MB

Quality Control

- The workability and mix of concrete for the classes 15/20 and 20/25 shall be checked using the slump test and shall have a slump limit as directed by the Engineer.
- The laying and joining of the culverts shall be subject to the approval of the engineer.

Measurement Unit: m

The measurement shall be the length of culvert laid.

BILL 10: GRADING AND GRAVELLING Scope:

Grading covers the work of reinstating the road carriageway to the correct camber by removing the high points and filling gullies, corrugations, and wheel ruts to restore a smooth running surface.

Grading can either be done by labour (Manual Reshaping) or by Machine (Motorized grading or towed grading).

Manual reshaping is preferable where there is sufficient labour. For existing roads with side drains light manual reshaping should be used as defined in 10-50-004. Heavy manual reshaping should be used for roads that have deteriorated to such an extent that the drains and carriageway need to be re-instated. Heavy Manual Reshaping is defined under Bill 5 - Earth Works.

Light grading is carried out on good and fair roads as a maintenance activity while heavy grading is for re-establishing a road in poor or very poor condition.

Gravelling consists of the excavation; loading, hauling, dumping, spreading and compacting using approved equipment of gravel wearing course material on the formation of the road carriageway. Gravel shall include lateritic gravel, quartzitic gravel, calcareous gravel, decomposed rock, soft stone coral rag, clayey sand and crushed rock.

The material may be obtained from quarries, borrow pits or excavation in cuttings as directed by the Engineer. Gravel material shall conform to the requirement given in Table 10.1

Table 10.1: Requirement for Gravel Wearing Course

GRADING REQUIREMENTS						
Sieve	% by Weight					
(mm)	Passi					
	ng					
40	100					
28	95 - 100					
20	85 - 100					
14	65 - 100					
10	55 - 100					
5	35 - 92					
2	23 - 77					
1	18 - 62					
0.425	14 - 50					
0.075	10 - 40					

PLASTICITY INDEX REQUIREMENTS PI				
Zone	Min	Max		
WET: Mear	n 5	20		
DRY: Meai	n 10	30		

BEARING STRENGTH REQUIREMENTS			
Traffic		DCP	
VPD	CBR	Equivalen	
		mm/Blow	
>15	20	11	
<15	15	14	

For "Quarry Waste" gravel stones of maximum

may

permitted

dimension 80mm

be

CBR at 95 % MDD, Modified AASHTO and 4 days soaking

Lower quality material (CBR 15) may be accepted if no better material can be found

The Engineer shall approve quarries and the extent of their exploitation. The possible quarries shall be shown to the Contractor prior to commencement of the Works. The Contractor shall be responsible for the acquisition of the guarry rights and shall conduct respective negotiations with landowners and affected communities.

Alternative sources of gravel material whose quality can be shown to be in compliance with the specification requirements may be used, with the approval of the Engineer. The Contractor is deemed to have included in his rates for the provision of the gravel material.

Heavy Grading without watering and compaction. 10-50-001:

Heavy grading without watering and compaction shall only be done when there is sufficient moisture in the material and the material can be compacted by traffic.

The Contractor shall scarify the existing carriageway surface, cutting high spots and moving materials to fill potholes, corrugations and wheel ruts and reshape the surface to the specified camber, using a Motor grader unless otherwise directed by the Engineer. All loose rocks, roots and grasses shall be removed first and disposed of well clear of the drains.

Pegs 300 to 400mm long shall be placed at 20 m intervals to mark edge of the carriageway.

The material shall be graded toward the centre of the road starting from both edges until the specified camber is achieved. Suitable material from the side drains may be used as additional material. Any further material needed to achieve the correct camber shall be from an approved source.

No grading shall be carried out in dry conditions.

The Contractor shall use **Equipment** to carry out this item.

Work Method:

Quality Control

- The width of the carriageway shall be checked at every 50m intervals and have a tolerance of + 50mm or -20mm.
- \bullet The camber shall be checked with a camber board at 25m intervals and shall have a tolerance of + 1%

Measurement Unit: m²

The measurement shall be the area of carriageway graded, measured net according to the specified width and measured length graded.

Payment

The unit rate shall be the full compensation for labour, tools, equipment and incidental costs required for carrying out the work.

The Contractor shall use **Equipment** to carry out this item.

MB

Work Method: MB

Quality Control

- The width of the carriageway shall be checked at every 50m intervals and have a tolerance of +50mm or -20mm
- The camber shall be checked with a camber board at 25m intervals and shall have a tolerance of + 1%
- Longitudinal levels shall be checked with a straight edge of minimum 2.7 m length. Maximum tolerance of +10 mm.

Measurement Unit: m²

The measurement shall be the area of carriageway graded, measured net according to the specified width and measured length graded.

Payment

The unit rate shall be the full compensation for labour, tools, equipment and incidental costs required for carrying out the work.

FIGURE C.1 - CROSS SECTION A (MINOR STANDARD CROSS-SECTION)

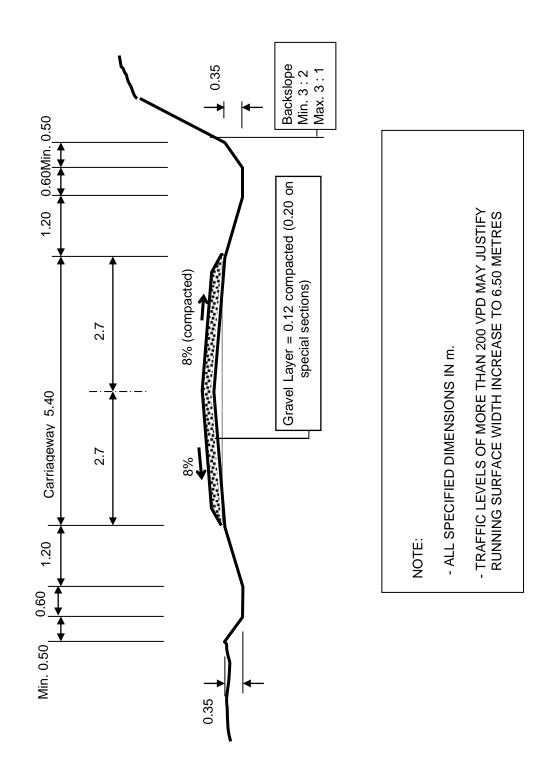
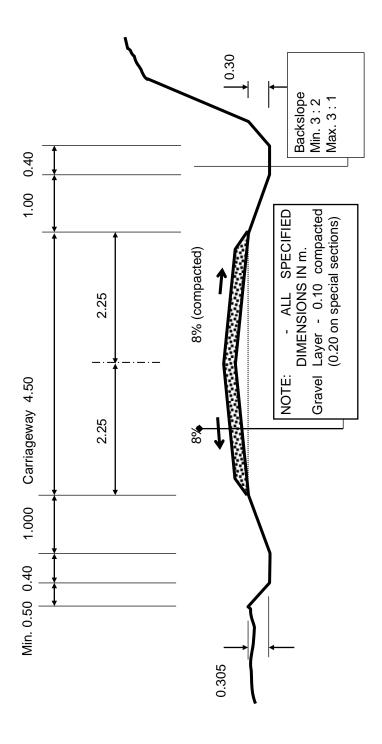


FIGURE C.2 - CROSS SECTION B (REDUCED CROSS-SECTION)



BILL 25: HIV/AIDS AWARENESS AND PREVENTION CAMPAIGN

This BILL sets out the Contractor's obligations with regard to on-site HIV / AIDS awareness campaign and preventive measures that are to be instituted.

25-50-001 HIV / AIDS Awareness and Prevention Campaign

- The Contractor shall institute an HIV / AIDS awareness and prevention campaign amongst his workers for the duration of the Contract. The awareness campaigns shall be carried out in consultation and guidance of Ministry of Public Health or Local service providers approved by the Ministry of Public Health.
- The Contractor shall display AIDS awareness posters in all buildings frequented by workers employed on the Contract, where such buildings fall under the control of the Contractor.
- In addition at least two of the Contractors vehicles regularly used on site shall display HIV / AIDS awareness posters. The posters shall be printed on gloss paper and shall be at least A1 size on buildings and A3 size or other approved size on vehicles.
- Aids awareness shall also be included in the orientation process of all workers employed on the Contract.
- As part of the campaign the Contractor will be required to make condoms available to his workers.

Payment:

The contractor shall include costs for carrying out AIDS awareness and prevetion campaign in his rates.

25-50-003 Baraza's for Cross-cutting Issues

The Contractor shall arrange and conduct meetings and/or training sessions for workers and staff on cross-cutting issues, including Community Participation, Environmental Mitigation, Gender Rights, HIV/AIDS, Workers Rights at times and locations directed by the Engineer.

3 PREAMBLE TO BILLS OF QUANTITIES

- The Bills of Quantities form part of the Contract Documents and are to be read in conjunction with the instructions to Tenderers and these documents.
- The prices and rates to be inserted in the Bill of Quantities are to be the full, inclusive value of the work described under the several items including all costs and expenses which may be required in and for the execution of the work described and for the Contractor's overheads and profits.
- Each item in the B/Q contains only a brief description of the proposed work. Fuller details and directions of the work to be done, the materials to be used, the standards of workmanship, methods of measurement and payment are to be found in the various sections of the Specifications.
- The Quantities set forth in the Bill of Quantities are estimated and representing substantially the work to be carried out. There is no guarantee to the Contractor that he will be required to carry out all the quantities 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 work actually done in fulfilment of his obligation under the Contract.

BILL OF QUANTITIES

NTIMA WEST DRAINAGE WORKS -PRICED

Bill of Quantities					Page: 1	
Bill No.1	PRELIMINARIES				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
01-50-004	publicity sign board	NO	1	25,000.00	25,000.00	LB
	Total Carried Forward to Summary:				25,000.000	

NTIMA WEST DRAINAGE WORKS -PRICED

Bill of Quantities						
Bill No.8	Drainage Works				Project:	
Item No.	Description	Units	Quantity	Unit Bid Rate(Ksh)	Amount KSh	Technology
08-60-022	Culvert installation - 900mm	M	30M			LB
08-60-022	Culvert installation 600mm	М	14M			LB
	Total Carried Forward to Summary:					

Bill of Quant	ities	Page: 2
	Summary	Project:
Item No.	Description	Amount (Kshs)
1	PUBLICITY SIGN BOARD	
8	DRAINAGE WORKS	
	SUB TOTAL	
	VAT INCLUSIVE	
	VAT INCLUSIVE	
	TOTAL	
	Total Carried to page on the form of Tender	

STANDARD FORMS

- 1. Form of Invitation for Tenders
- 2. Letter of Acceptance
- 3. Form of Tender Security
- 4. Performance Bank Guarantee
- 5. Bank Guarantee for Advance Payment
- 6. Tender Questionnaire
- 7. Confidential Business Questionnaire
- 8. Adjudicator's Agreement

FORM OF INVITATION FOR TENDERS

	[date]
Dear Sirs:	
Reference:	[Contract Name]
You are qualified to tender for the ab	ove Contract.
We hereby invite you and other quo execution and completion of the	alified Tenderers to submit a Tender for the e Works.
A complete set of Tender documents n	nay be purchased from
[mailing address, c	cable/telex/facsimile numbers].
Upon payment of a non-refundable fee	e of Kshs
	number of copies of the same form and amount of Kshs and shall be
[Address and locat	ion]
	(time and date). Tenders will be opened presence of those Tenderers' representatives
Please confirm receipt of this letter a	nd your intention to Tender in writing.
Yours faithfully,	
	Authorised Signature
	Name and Title

LETTER OF ACCEPTANCE

[letterhead paper of the Employer]

	[date]
To:	
[address of the Contractor]	
Dear Sir,	
This is to notify you that your Tender dated for the execution of [name of the Contract and identification number,as given in for the Contract Price of Kshs figures][Kenya Shillings in accordance with the Instructions to Tenderers is here	the Tender documents] [amount in(amount in words)]
You are hereby instructed to proceed with the execution accordance with the Contract documents.	n of the said Works in
Authorized Signature	
Name and Title of Signatory	••••
Attachment :	

FORM OF TENDER SECURITY

a Tender dated	einafter called "the Tenderer") has submitted . for the Rehabilitation/Spot Improvement of			
(name of Contract)				
office at(hereinaft (hereinafter c Kshs for which pa Employer, the Bank binds itself,	that WEhaving our registered ter called "the Bank"), are bound unto alled "the Employer") in the sum of yment well and truly to be made to the said its successors and assigns by these presents of the said Bank this Day of			
THE CONDITIONS of this obligation are:				
 If after Tender opening the Tender Tender validity specified in the In Or 	erer withdraws his Tender during the period of structions to Tenderers			
 If the Tenderer, having been notified of the acceptance of his Tender by th Employer during the Period of Tender validity: 				
(a) fails or refuses to execute the Instructions to Tendere	e the Form of Agreement in accordance with ers, if required; or			
(b) fails or refuses to furnish t the Instructions to Tendere	the Performance Security, in accordance withers;			
written demand, without the En provided that in his demand the E	to the above amount upon receipt of his first imployer having to substantiate his demand, imployer will note that the amount claimed by the occurrence of one or both of the two ed condition or conditions.			
	o to and including thirty (30) days after the y demand in respect thereof should reach the			
[date[[signature of the Bank]			
[witness]				

PERFORMANCE BANK GUARANTEE

To: _		(Name of Emp (Address of E	lloyer) mployer)	(Date)
Dear	Sir,			
WHEF	REAS in pursuance of Cont (herei	ract No	dated	ractor") has undertaken, to execute
' AND	-	k Guarantee by	a recognised bar	that the Contractor shall lk for the sum specified in accordance with the
AND \	WHEREAS we have agreed	to give the Contr	ractor such a Bank	Guarantee:
NOW	Shillings words), and we underta cavil or argument, ar	or, up to a tota in ke to pay you, up ny sum or sum (amount of	l of Kshs figures) (oon your first writ s within the lin f Guarantee in wo	nd responsible to you, on (amount of Kenya (amount of Guarantee in ten demand and without mits of Kenya Shillings (rds) as aforesaid without your demand for the sum
We h	nereby waive the necessi before presenting us wit		nding the said do	ebt from the Contractor
We f	documents which may b	ks to be perform be made between bility under this (ned thereunder o n you and the Coi	ion of the terms of the r of any of the Contract ntractor shall in any way e hereby waive notice of
This	Guarantee shall be valid ı Clause 8.2 (Taking-Over			
	SIGNATURE AND S	SEAL OF THE GUA	RANTOR	
	Name of Bank			
	Address			

	Date	
BANK	GUARANTEE FOR ADVANCE PAYMENT	
To:	[name of Employer][address of Employer]	(Date)
Gentle		
Ref:		_[name of Contract]
In ac	cordance with the provisions of the Conditions of mentioned Contract, We, and Address of Contractor] (hereinafter called "the you with a Bank guarantee by a recognised Bank for as a security for compliance with his obligations Contract in an amount of Kshs. [figurers] Kenya Shillings Guarantee in words].	[name Contractor") shall furnish the sum specified therein in accordance with the amount of Guarantee in
We, t	Contractor, agree unconditionally and irrevocably obligator and not as Surety merely,	to guarantee as primary the payment to on his first demand without nout his first claim to the not exceeding cantee in figures]Kenya
	Guarantee in words]. rther agree that no change or addition to or other method that the Contract or of the Works to be performed the Contract documents which may be	ereunder or of any of the be made between d the Contractor, shall in Guarantee, and we hereby ation.
	Guarantee shall remain valid and in full effect from Payment under the Contract until	(name of
	ure and Seal	

Name of th	e Bank or financial institution
Address	
	Name:
	Address:
	Signature:
	Date:

Adjudicator's Agreement

Identification of Project:
(the "Project")
Name and address of the Employer:
(the "Employer")
Name and address of the Contractor:
(the "Contractor")
Name and address of the Adjudicator:
(the "Adjudicator")
Whereas the Employer and the Contractor have entered into a Contract ("the Contract") for the execution of the Project and wish to appoint the Adjudicator to act as adjudicator in accordance with the Rules for Adjudication ["the Rules"].
The Employer, Contractor and Adjudicator agree as follows:
 The Rules and dispute provisions of the Contract shall form part of this Agreement.
2. The Adjudicator shall be paid:
A retainer fee of per calendar month (where applicable)
A daily fee of
Expenses (including the cost of telephone calls, courier charges, faxes and telexes incurred in connection with his duties; all reasonable and

necessary travel expenses, hotel accommodation and subsistence and other direct travel expenses).

Receipts will be required for all expenses.

3.	Rules	e Adjudicator agrees to act as Adjudicator in accordance with the es and has disclosed to the Parties any previous or existing ationship with the Parties or others concerned with the Project.							
4.		Agreement		be	governed	by	the	laws	
		Language		this	Agreeme	ent	shall	be	
SIGNI	ED BY	••••••		••••••	•••••••••••••••••••••••••••••••••••••••				
For a	nd on b	ehalf of the Em	ployer in	the pre	sence of				
Name Addre	ess								
SIGNI	ED BY		••••••	••••••	••••••				
For a	nd on b	ehalf of the Cor	ntractor i	n the pr	resence of				
Name Addre	ess			••••••					
SIGNI	ED BY	•••••		•••••	••••••				
For a	nd on b	ehalf of the Adj	udicator	in the p	resence of				
Witne Name Addre Date	ess		•••••	•••••					

QUALIFICATION INFORMATION

TENDER QUESTIONNAIRE

	Please fill in block letters.
1.	Full name of Tenderer;
•••••	
2.	Full address of Tenderer to which Tender correspondence is to be sent (unless an agent has been appointed below);
3.	Telephone number (s) of Tenderer;
	Facsimile of Tenderer;
5.	Name of Tenderer's representative to be contacted on matters of the Tender during the Tender period;
6.	Details of Tenderer's nominated agent (if any) to receive Tender notices (name, address, telephone, telefax);
•••••	
•••••	
	Signature of Tenderer

Make an original and one copy of the Tender documents

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a) or 2 (b) whichever applies to your type of business.

You are advised that it is a serious offence to give false information on this Form.

Part	1 – General				
Busir	ness Name				
Loca	tion of business pr	remises; C	Country/Town		
Plot 1	No		Street/Road		
Posta	ıl Address		Tel No		
Natu	re of Business				
Curre	ent Trade Licensee	e No	Expiring date		
Maxi	mum value of bus	iness which you	u can handle at any time:	Kshs	
Nam	e of your Bankers				
Bran	ch				
Part .	2 (a) – Sole Propr	rietor			
Your	name in full		Age		
Natio	onality		Country of Origin.		
Citiz	enship details				
Part .	2 (b) – Partnershi	p			
Give	details of partners	s as follows:			
	Name in full	Nationality	Citizenship Details	Shares	
1 2					
3	2() 11 1 10				
Part .	2 (c) – Limited Co	mpany Give de	tails of directors as follo	ws:	
1	•	•	Citizenship Details	Shares	
2					

1.1 KEY PERSONNEL

	DESIGNATIO N	NAME	NATIONALIT Y	SUMMARY OF QUALIFICATIONS AND EXPERIENCE
1				
2				
3				
4				
5				

5							
l certi	I certify that the above information is correct.						
(Title)	······································	(Signature)		(Date)		

1.1.2 SCHEDULE OF COMPLETED WORKS CARRIED OUT BY THE TENDERER

	DESCRIPTION OF WORKS	NAME OF CLIENT	TOTALVALUE OF WORK S (KSHS)	CONTR ACT PERIOD (YEAR)	YEAR COMPLETE D
1					
2					
3					
4					
5					
6					
7					

I certify that the above Civil Works were successfully carried out and completed by ourselves.

		•••••	
(Title)	(Signature)	(Date)	

	DESCRIPTION OF WORK	NAME OF CLIENT	CONTRACT PERIOD	DATE OF COMMEN- CEMENT	DATE OF COMPLETION	TOTAL VALUE OF WORKS (KSHS.)	PERCENTAGE COMPLETED TO DATE
1							
2							
3							
4							
5							

^{*}Value in Kshs using Central Bank of Kenya mean exchange rate at a reference date 30 days before date of tender opening

1.1.3 SCHEDULE OF ONGOING PROJECTS

I certify that th above inf	Civil Works a	are being ca	ried out by ou	ırselves and	d that the
······································	(5:	••	(0 ()		
(Title)	(Signature)		(Date)		

SCHEDULE OF EQUIPMENTS

Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below.

	Item of	Description,	Condition (new,	Owned, leased (from
	Equipment	Make and age	good, poor) and number	whom?), or to be
		(years)	available	purchased (from
				whom?)
1				
<u> </u>				
2				
3				
4				

5		

I certify that the above in	iformation is correct.	
(Title)	(Signature)	(Date)

Instructions to the Tenderers

Table 1: Mandatory requirements

Item NO	Mandatory qualification Requirements	
1	ELIGIBILITY - Copy of National ID or passport for all Directors	mandatory
2	BID SECURITY - Unconditional guarantee, in the format and conditions provided -	mandatory
	Must be valid for 150days	
3	Attending pre-tender site visit for the works.	mandatory
4	Certified Copy of Certificates of Registration/Incorporation.	mandatory
5	Principal place of business (attach business permit or trading license)	mandatory
6	Certified Certificate of registration with National Construction Authority	mandatory
7	Certified Copy of Tax compliance certificate	mandatory
8	Properly and dully filled Form of Tender	mandatory
9	Properly and dully filled Tender Questionnaire	mandatory
10	Properly and dully filled Confidential Business Questionnaire	mandatory
	1	1

SECTION V-(B): TECHNICAL EVALUATION CRITERIA

This Section shall apply to tenderer whose bids have been determined to be responsive and have met all the Qualification Criteria as per the instruction to bidders.

It contains all the factors, methods and criteria that the Procurement Entity shall use for the technical evaluation. The information to be provided in relation to each factor and the definitions of the corresponding terms are included in the respective supplementary information Forms (Schedules).

The Technical Evaluation Committee shall examine tender documents and score them based on their validity, accuracy and quality and score them as per Table below. Where the bidder fails to meet the requirement, the bidder shall be disqualified.

Bidders whose shall score 70% and above shall proceed to financial evaluation stage

Table 2: Technical Qualification Requirements

11		Financial Capacity	20	
	1	Company turnover for the last two years		5
	2	Profitability of the company for the last two years		5
	3	Past two years Audited Financial Reports of the tenderer		5
	4	Current one year Bank statement.		5
12		Contractual misconducts and litigation - Legal Capacity/Litigation History (attach	5	
		affidavit)		
13		Experience (5 YEARS AND ABOVE)	25	
		Bidder to submit the following		20
		- Completion certificate, Taking Over Certificate or Substantial Completion		
		Certificate of relevant work in the previous 5 years		
		- Value of ongoing work must be < 50% of		
	Α			5
		Specific Experience in Related Works - Attach certificate of completion		
14		Key personnel - Provide List of professional and technical staff and their resume -	15	
		General Experience (CV), - Certified Qualification Certificate		
	b	Site Agent DEGREE		15
	С	DIPLOMA		10
	С	CERTIFICATE		5
15	Α	Equipments	20	
		Bidder to submit the following - Ownership list of required equipment and/or		
		Authorization letter of hiring from M&T or reputable hiring company		
16		Registration as a contractor with NCA	8	

		1) NCA 1 [building/roads]		8			
		2) NCA 2 [building/roads]		7			
		3) NCA 3 [building/roads]					
		4) NCA 4 [building/roads]					
		5) NCA 5 [building/roads]		4			
		6) NCA 6 [building/roads]		3			
		7) NCA 7 [building/roads]		2			
		8) NCA 8 [building/roads]		1			
17	a	Working Schedule and Projected CashFlow.	4				
		Bidder to submit the following Proposals					
		1. Signed work program chart					
		2. Signed Cash flow plan during the					
		Contract period.					
			_				
		<u>Certification</u>	3				
		I/we certify that the information provided herein is correct and legally binding.					
		Name					
		Signature					
		Date					
		Official stamp					
18							
		TOTAL	100 %				