

SPECIAL NOTES

- 1** The Contractor is required to check the numbers of the pages and should any be found to be missing or in duplicate or the figures or writing indistinct, they must inform the Quantity Surveyors at once and have the same rectified. Should the Contractor be in doubt about the precise meaning of any item, word or figure, for any reason whatsoever, or observe any apparent omission of words or figures they must inform the Quantity Surveyor in order that the correct meaning may be decided upon before the date for the submission of the Tender.
- 2** No liability whatever will be admitted nor claim allowed in respect of errors in the Contractor's Tender due to mistakes in the Bills of Quantities which should have been rectified in the manner described above.
- 3** Any doubt or obscurity as to the meaning or intention of any part of the tender documents, or any question arising, shall be taken up in writing, before submission of the tender so that the same can be clarified.
- 4** The Contractor shall not alter or otherwise qualify the text of these Bills of Quantities. Any alteration or qualification made without authority will be ignored and the text of the Bills of Quantities as printed will be adhered to.
- 5** The Contractor shall be deemed to have made allowance in their prices generally to cover items of Preliminaries or additions to Prime Cost Sums or other items, if these have not been priced against the respective items.
- 6** All items of measured work shall be priced in detail and tenders containing lump sums to cover trades or groups of work must be broken down to show prices for each item before they will be accepted. Lump sums to cover items of Preliminaries shall likewise be broken down if so required.
- 7** In no case will any expenses incurred by Contractors in preparation of this Tender be reimbursed.
- 8** The copyright of these Bills of Quantities is vested in the Quantity Surveyors and no part thereof may be reproduced without their express permission given in writing.
- 9** The Contractor is solely responsible for the accurate ordering of materials in accordance with the Drawings and Architect's instructions and no claims for any loss or expense will be entertained for orders for materials based upon the Bills of Quantities.
- 10** The Bills of Quantities must be priced in US Dollar currency. i.e., dollars & cents.
- 11** The tender documents must be priced in ink.

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GRAND SUMMARY

ITEM	GRANT NO. BAO057	AMOUNT USD
A	<p>SECTION NO. 1</p> <p>PRELIMINARIES</p> <p>PRELIMINARY PARTICULARS</p> <p>PARTIES</p> <p>The "Employer" is INTERNATIONAL ORGANIZATION FOR MIGRATION</p>	
B	<p>For the purpose of the works which are under the control of the consultants above, the respective consultants shall be deemed to be invested with the duties and be representatives of the Architect.</p> <p>SITE</p> <p>The site is located on BAIDOA DISTRICT</p> <p>The site of the works shall be used solely for the purpose of executing and completing the Contract to the satisfaction of the Architect.</p> <p>The Contractor shall obtain the Architect's approval for the siting of all temporary storage areas for materials.</p> <p>The Contractors shall visit the site to acquaint themselves with its nature and position, the nature of the ground, sub- strata and other local conditions, position of power and water supplies, access roads or any other limitations, and no claims for extras will be considered on account of lack of knowledge in this respect.</p> <p>The Contractor's attention is drawn to the fact that they shall confine themselves to the area necessary for executing the works as instructed by the Architect.</p> <p>The contractor must obtain the Architect's approval and directions regarding the use of any materials found on the Site. Any such material utilized in the execution of the Contract shall be measured and value assessed by the Quantity Surveyor and the amount credited to the Employer.</p>	
	<p style="text-align: right;">Carried To Collection US\$</p>	

GENERAL MATTERS

A SUFFICIENCY OF TENDER

The Contractor shall be deemed to have satisfied themselves before tendering as to the correctness and sufficiency of their Tender for the Works and of the rates and prices stated in the priced Bills of Quantities, which rates and prices shall cover all their obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the Works.

B STAMP CHARGES

The Contractor shall allow for the payment of all Stamp Charges in connection with the Surety Bond and Contract Agreement.

C DEFINITIONS AND ABBREVIATIONS

Terms used in these Bills of Quantities shall be interpreted as follows:

- "Approved" shall mean approved by the Architect.
- "as directed" shall mean as directed by the Architect or any other consultant in the contract.
- "BS" Shall mean the current British Standard Specification published by the British Standards Institution, 2 Park Street, London W.1, England.
- "CM" shall mean Cubic Meters.
- "SM" shall mean Square Meters.
- "LM" shall mean Linear Meters.
- "mm" shall mean Millimeters.
- "Kg" shall mean Kilograms.
- "No." shall mean Number.
- "m.s" shall mean Measured separately.
- "Ditto " shall mean as described before or as above described.

D PROGRESS SCHEDULE

The Contractor shall, upon receiving instructions to proceed with the work, draw up a Time and Progress Schedule setting out the order in which the Works are to be carried out with the appropriate dates thereof. This Time and Progress Schedule is to be agreed with the Architect and no deviation from the order set out in this Schedule will be permitted without the written consent of the Architect. The Main Contractor will be responsible for arranging the above programme with all Sub-Contractors including the Nominated Sub-Contractors and Nominated Suppliers.

E FIGURED DIMENSIONS

Figured dimensions are to be followed in preference to dimensions scaled from the Drawings; but whenever possible dimensions are to be taken on the Site or from the Buildings. Before any work is commenced by Sub-Contractors or Specialist Firms, dimensions must be checked on the Site and/or buildings and agreed with the Contractor, irrespective of the comparable dimensions shown on the Drawings. The Contractor shall be responsible for the accuracy of such dimensions.

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<p>A</p>	<p>PROVISIONAL WORK</p> <p>All "provisional" and other work liable to adjustment under this Contract shall be left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the Quantity Surveyor. Immediately the work is ready for measurement, the Contractor shall give notice to the Quantity Surveyor.</p> <p>If the Contractor makes default in these respects he shall, if the Architect so directs, uncover the work at his own expense to enable the measurements to be taken.</p>	
<p>B</p>	<p>EXISTING SERVICES</p> <p>Prior to commencement of any work the Contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, water pipes or other services in the area and they shall make whatever provisions may be required by the Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any services shall be reported immediately to the Architect and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense.</p>	
<p>C</p>	<p>TRANSPORT TO AND FROM THE SITE</p> <p>The Contractor shall include in their prices for the transport of materials, workmen, etc., to and from the Site of the proposed Works, at such hours and by such routes as are permitted by the Authorities.</p>	
<p>D</p>	<p>OVERTIME</p> <p>The Contractor shall allow in their tender for any extra costs for overtime working they consider will be necessary in order to complete the works by the contract Date of Completion.</p> <p>If during the course of the Contract overtime is worked for a specific purpose in accordance with a written instruction issued by the Architect, the Contractor will be reimbursed in respect of such overtime to the extent only of the additional net cost of unproductive time payable over and above the basic hourly rates as laid down by the Regulations of Wages and Conditions of Employment Act, Building and Construction Industry Wages council and excluding any bonuses, profits and overheads.</p>	
<p>E</p>	<p>PUBLIC AND PRIVATE ROADS, PAVEMENTS, ETC.</p> <p>The Contractor will be required to make good, at their own expense, any damage they may cause to the present road surfaces and pavements within or beyond the boundary of the Site, during the period of the Works. In particular, all existing trees, shrubs, plants, etc., which may be destroyed or damaged during the progress of the Works are to be made good by the Contractor to the approval of the Architect.</p>	
<p>F</p>	<p>POLICE REGULATIONS</p> <p>The Contractor is to allow for complying with all instructions and regulations of the Police Authorities.</p>	
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A

CONTRACTORS' SUPERINTENDENCE

The Contractor shall constantly keep on the Works a literate English-speaking Agent or Representative, competent and experienced in the kind of work involved, who shall give his whole time to the superintendence of the Works. Such Agent or Representative shall receive on behalf of the Contractor, directions and instructions from the Architect and such directions and instructions shall be deemed given to the Contractor in accordance with the Conditions of Contract. The Agent shall not be replaced without the specific approval of the Architect.

It is to be a specific condition of this Contract that the successful Tenderer shall provide on site throughout the period from the completion of the substructure to the Date for Practical Completion a suitably qualified, experienced and competent person to ensure that the works are carried out to the standard required by the specification and detailed on the Drawings; and shall ensure that upon any termination of employment a suitable replacement is found.

Before the Tenderer's offer is accepted the Architect will personally interview the Contractor's proposed Representative. A curriculum vitae of past experience and qualifications must be provided for the Architect's scrutiny.

The Architect's decision will be final regarding the suitability of the proposed Representative.

B

WATER

All water shall be fresh, clean and pure, free from earthy vegetable or organic matter, acid or alkaline substance in solution or suspension.

The Contractor shall provide at their own risk and cost all water for use in connection with the Works (including the work of Sub-Contractors). The Contractor shall provide at their own expense all temporary distribution pipes, storage tanks, meters, etc., and they shall clear away same upon completion of the Works.

C

LIGHTING AND POWER

The Contractor shall provide at their own risk and cost all artificial lighting and power for use on the Works, including all Sub-Contractors' and Specialists' requirements and including all temporary connections, wiring, fittings, etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith.

D

SAFETY

In particular there shall be proper provision of planked footways and guard-rails to scaffolding, etc.; protection against falling materials and tools and the Site shall be kept tidy and clear of dangerous rubbish.

The Architect shall be empowered to suspend work on the Site should he consider these conditions are not being observed, and no claim arising from such a suspension will be allowed.

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A PROTECTIVE CLOTHING

The Contractor shall provide all protective or any other special clothing or equipment for their employees that may be necessary.

These shall include, inter-alia, safety helmets, gloves, goggles, earmuffs, gumboots, steel toed boots, overalls, etc according to the type of work. The Contractor shall ensure that all safety and protective gear are worn by all staff on site at all times

MATERIALS AND WORKMANSHIP

B GENERALLY

All materials shall be new unless otherwise directed or permitted by the Architect and in all cases where the quality of goods or materials is not described or otherwise specified, is to be the best quality obtainable in the ordinary meaning of the word "best" and not merely a trade signification of that word.

All materials and workmanship shall, unless otherwise specified or described, conform to the appropriate Kenya Bureau of Standards or British Standards Institution Specification current at the date of tender.

The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that such materials are on Site when required for use in the Works.

The Contractor shall be responsible for and shall replace or make good at their own expense any materials lost or damaged.

The Works throughout shall be executed by skilled workmen well versed in their respective trades.

C REJECTED WORKMANSHIP OR MATERIALS

Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the Site and replaced at the Contractor's expense, as required.

D PROPRIETARY MATERIALS

Where proprietary materials are specified herein-after the Contractor may propose the use of materials of other manufacture but equal quality for approval by the Architect.

All materials and goods, where specified to be obtained from a particular manufacturer or supplier are to be used or fixed strictly in accordance with their instructions.

E SAMPLES

The Contractor shall furnish at the earliest possible opportunity before work commences and at his own cost, any samples of materials or workman-ship that may be called for by the Architect for his approval or rejection, and any further samples in the case of rejection until such samples are approved by the Architect and such samples, when approved, shall be the minimum standard for the work to which they apply.

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A CONCRETE TESTS

Concrete test cubes I.e. per set of three as later described, including testing fees, labour and materials, making moulds, transport and handling etc.. and ensuing copies of tests are promptly dispatched to the Architect's and Quantity Surveyor's offices. Successful tests only (Provisional)

TEMPORARY WORKS

B SPACE AND SERVICES FOR THE ARCHITECT

The Contractor shall provide where directed within the site, site offices and clean toilet facilities for the sole use of the Architect and their representatives to the satisfaction of the Local Authorities. The offices shall be provided with adequate furniture and the contractor shall provide the services of a sweeper, pay all charges and keep the facilities in a clean and sanitary condition during the whole period of the Works. In particular, the Contractor is to note that the station will continue with operations during the period of the works and a separate office and store shall be provided for full time use by the station dealer. Equally, separate sanitary amenities shall be provided for the station staff to the satisfaction of the Architect and local authorities.

C TELEPHONE

The Contractor shall provide a telephone connection to the town exchange for the period of the Works, and shall pay all fees and rental for the same. The telephone connection shall remain on site until completion of the works.

D SANITATION

The Contractor shall make arrangements for the necessary toilet facilities for their staff and workmen to the requirements and satisfaction of the Health authorities and maintain the same in a thoroughly clean and sanitary condition and pay all conservancy fees during the period of the Works and remove when no longer required.

E PLANT, TOOLS AND SCAFFOLDING

The Contractor shall provide all necessary hoists, tackle, plant, vehicles, tools and appliances of on every description for the due and satisfactory completion of the Works and shall remove same completion.

The Contractor shall provide, erect and maintain all temporary scaffolding, sufficiently strong and efficient for the due performance of the Works, including Sub-contract Works, provide special scaffolding as and when required during the Works and remove on completion and make good.

Such scaffolding shall be constructed of tubular steel or timber of sufficient scantlings and be provided with planked footways and guard-rails to approval.

All such plant, tools and scaffolding shall comply with all regulations whether general or local, in force throughout the period of the Contract and shall be altered or adapted during the Contract as may be necessary to comply with any amendments in or additions to such regulations.

Scaffolding is not measured hereinafter, and the Contractor must allow here or in his rates for the above.

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A **EXISTING AND ADJACENT PROPERTY**

The Contractor must take all steps necessary to safeguard existing and adjacent property, make good at their own expense any damage to persons or property caused thereon, and hold the Employer indemnified against any such claim arising.

The Contractor will be held fully responsible for the safety of the existing and adjacent buildings and for any damage caused in consequence of these Works. They must reinstate all damages at his own expense and indemnify the Employer against any loss.

The Contractor must take such steps and exercise such care and diligence as to minimize nuisance from dust, noise or any other cause to the occupiers of the existing and adjacent property.

B **HOARDING**

The Contractor shall enclose the site areas under which work is carried out, with 1.80 meter high barbed wire fence comprising treated blue gum poles at centres not exceeding 3.0meters and 6No barbed wire strands at equal spacing

The contractors attention is drawn to the fact that some areas of the site are already built up and shall be in use during the currency of this project. As such the contractor must allow for keeping his/her employees from interfering with such other users and preventing and minimizing any nuisance arising from dust, noise or by way of trespass.

Allow for Provisional length of 100 meters @ _____(tenderer to insert rate and extend)

B **WATCHING AND LIGHTING**

The Contractor shall provide at their risk and cost all watching and lighting as necessary to safeguard the Works, plant and materials against damage and theft.

C **SIGNBOARD**

The Signboard and lettering on same for the display of the General and Sub-Contractors' names shall be of an approved size with the Employer's name painted thereon. The Architect's Quantity Surveyor's and other Consultants' names shall be printed in 50 mm letters all to the Architect's approved design. No other signboard or advertising will be permitted without prior permission from the Architect.

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A PRIME COST RATES

Where description of items include a P.C. rate per unit this rate is to cover the net supply cost of the unit only. The Contractor's price must include for the cost of the unit at the rate stated, plus waste, taking delivery, storage, fixing in position, profit and overheads.

The actual net cost per unit will be adjusted within the Final Account against the P.C. rate stated.

PROTECTION AND CLEANING

B PROTECTION

The Contractor shall cover up and protect from damage, including damage from inclement weather, all finished work and unfixed materials, including that of Sub-Contractors, etc., to the satisfaction of the Architect until the completion of the Contract.

C CLEANING

The Contractor shall, upon completion of the Works, at their own expense, remove and clear away all surplus excavated materials, plant, rubbish and unused materials and shall leave the whole of the Site and Works in a clean and tidy state to the satisfaction of the Architect, including clearing away and making good all traces of temporary access roads, offices, sheds, camps, etc. Particular care shall be taken to leave clean all floors and windows and to remove all paint and cement stains. They shall also, at the discretion of the Architect, remove all rubbish and dirt as it accumulates. The Contractor is to find their own dump and shall pay all charges in connection therewith.

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TOTAL FOR SECTION 1: PRELIMINARIES AND GENERAL

US\$

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (US\$)	AMOUNT (US\$)
	GRANT NO: BAI057 PROPOSED REHABILITATION BAIDOA GIRLS SPORTS CENTER <u>SECTION 2 : PLAYGROUND.</u> <u>ELEMENT NO. 1: SITE CLEARANCE.</u>				
A	Allow for removal of all debris on site either by manual or mechanical means. Grub up roots and and burn all arisings	Item	1.00		
B	Cart, wheel and deposit as directed	Item	1.00		
	Sub-Total carried to summary				
	<u>ELEMENT NO. 2 : CONCRETE WORKS</u> <u>PLAYGROUND</u> <u>PREPARATION</u>				
C	Hack to remove old screed, clean surfaces. Cart away and deposit as directed				
	Court	SM	204.00		
	Ditto: Risers	SM	75.60		
	Ditto: Treads	SM	252.00		
D	<u>HARDCORE FILL</u> 200mm thick well compacted hardcore filling hand packed and blinded with 25mm thick quarry dust layer to receive surface bed	SM	204.00		
E	<u>Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net - no allowance made for laps (including bends, tying wire and distance blocks)</u> Fabric ref. A142 weighing 2.22kg/ sq.metre, in surface bed	SM	204.00		
F	<u>In situ concrete class 25/20 , vibrated and reinforced as described, in:-</u> Court	SM	40.80		
	Ditto: Stands	SM	65.52		
G	<u>Sawn formwork as described to:-</u> To edge of steps	SM	327.60		
H	<u>RIMS</u> Cast reinforced concrete footing and pedestal to support steel goal using mixture 1:2:4 with 4-Y12 vertical reinforcement bars and Y10 ties at 15 cm O.C. Please see CF column details. Assemble all materials and fabricate GI rim frame mounted at 2900mm above ground to the bottom of the backboard complete with; 1800mmx1050mm steel backboard marked as indicated 450mm dia hoop	CM	1.44		
		No.	2.00		
	Sub-Total carried to summary				

ELEMENT NO. 3: FINISHES

H

PLASTERED/RENDERED/ROUGHCAST COATINGS

Cement and sand (1:3) screeds, backings, beds etc

25mm Thick cement/sand (1:4) screed

SM 40.80

Ditto: Stands

SM 327.60

PAINTING

I

Prepare and apply two undercoats of brilliant white emulsion paint (RAL Code 9001) and two finishing coats of first quality brilliant white Silk Vinyl emulsion paint (RAL Code 9001) to:-

Markings on the floor as indicated in design

Item 1.00

Ditto: for goal posts as indicated in the design

Item 1.00

Sub-Total carried to summary

GRANT NO: BAI057
PROPOSED REHABILITATION
BAIDOA GIRLS SPORTS CENTER

SECTION 2 : PLAYGROUND.

MAIN SUMMARY

<u>Ref.</u>	<u>Element</u>	<u>Page</u>	<u>Amount</u>
<u>1</u>	ELEMENT NO. 1: SITE CLEARANCE.	3/2	
<u>2</u>	ELEMENT NO. 2 : CONCRETE WORKS	3/3	
<u>3</u>	ELEMENT NO. 3: FINISHES	3/5	
	Total		
<u>TOTAL FOR SECTION 2: BOUNDARY WALL CARRIED TO GRAND SUMMARY</u>			
US\$			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (US\$)	AMOUNT (US\$)
	GRANT NO: BAI057 PROPOSED REHABILITATION BAIDOA GIRLS SPORTS CENTER <u>SECTION 3: BOUNDARY WALL.</u> <u>ELEMENT NO. 1: SITE CLEARANCE.</u>				
A	Cut the existing small trees, grass, and all the debris from internal and external sides of the boundary wall, clear the site both internally & externally & cartaway all the surplus properly.	SM	900.00		
	<u>Sub-Total carried to summary</u>				
	<u>ELEMENT NO. 2: REHABILITATION OF WALLS.</u> <u>PREPARATION</u> Hack to remove old plaster, wire brush surfaces and clean as directed Walling surfaces internally Walling surfaces externally <u>SEALING</u> Build the wall gaps and cracks with HCBs and Cement-Sand mortar - of 1:3 mix resue properly and as instructed by the Engineer. Including the stairs for seatings on both sides of the court. <u>WALLING EXTENSION</u> 200mm thick 1m high solid block walling extension to existing wall jointed in c.s mortar (1:3) PIERS Allow for 400x400 piers PCC coping above wall <u>Sub-Total carried to summary</u>				
B		SM	259.80		
		SM	86.60		
C		SM	250.00		
D		SM	86.60		
E		Item	1.00		
F		LM	86.60		
	<u>Sub-Total carried to summary</u>				
	<u>ELEMENT NO. 3: FINISHES</u> <u>PLASTERED/RENDERED/ROUGHCAST COATINGS</u> Cement-sand 1:3 in 15 mm thick plaster wood floated hard to:- Walling surfaces internally Walling surfaces externally				
G		SM	173.20		
		SM	346.40		

H	Fill uneven surfaces with stucco filler to approval and apply two undercoats of soft white first quality plastic emulsion			
	Walling surfaces internally	SM	173.20	
	Walling surfaces externally	SM	346.40	
	<u>Painting</u>			
I	<u>Prepare and apply two undercoats of brilliant white emulsion paint (RAL Code 9001) and two finishing coats of first quality brilliant white Silk Vinyl emulsion paint (RAL Code 9001) to:-</u>			
	Walling surfaces internally	SM	173.20	
	Walling surfaces externally	SM	346.40	
	<u>Sub-Total carried to summary</u>			
	<u>ELEMENT NO. 4: GATE</u>			
J	Supply and fix double leaf steel gate size 3500mm wide x 2400mm high with small pedestrian door made from 3mm thick steel plate welded on both sides of the frame. Frame as follows: 75x50x3mm thick RHS external members and 25mm SHS 3mm thick secondary members, fixed onto the concrete columns using heavy duty steel pin hinges; with all fastening accessories including all cutting welding, grinding and priming with one coat of grey oxide before fixing. The gate should also have peep holes of not more than 25mm dia with a sliding door. It should also have 2 locking mechanisms, top and bottom.	No.	2.00	
K	Supply and fix emergency exit door of one leaf steel door Size 900x2100mm.	No	1.00	
	<u>Sub-Total carried to summary</u>			
	<u>GRANT NO: BAI057</u>			
	<u>PROPOSED REHABILITATION</u>			
	<u>BAIDOA GIRLS SPORTS CENTER</u>			
	<u>SECTION 3: BOUNDARY WALL.</u>			
	<u>MAIN SUMMARY</u>			
<u>Ref.</u>	<u>Element</u>	<u>Page</u>	<u>Amount</u>	
<u>1</u>	<u>ELEMENT NO. 1: SITE CLEARANCE.</u>	<u>3/2</u>		
<u>2</u>	<u>ELEMENT NO. 2: REHABILITATION OF WALLS.</u>	<u>3/3</u>		
<u>3</u>	<u>ELEMENT NO. 3: FINISHES</u>	<u>3/4</u>		
<u>4</u>	<u>ELEMENT NO. 4: GATE</u>	<u>3/5</u>		
	<u>Total</u>			
	<u>TOTAL FOR SECTION 3: BOUNDARY WALL CARRIED TO GRAND SUMMARY</u>	<u>US\$</u>		

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (US\$)	AMOUNT (US\$)
GRANT NO: BAI057 PROPOSED REHABILITATION BAIDOA GIRLS SPORTS CENTER					
<u>SECTION 4: COMPOUND LIGHTING</u>					
<u>ELEMENT No. 1: SOLAR SPOT LIGHT</u>					
<u>Lighting Fittings.</u>					
<u>Supply and install following lighting fixtures with all accessories as per the specifications and drawings and complete with lamp fitting and accessories of Engineer or approved make.</u>					
A	Wall mounted, 50 watt Solar spot light	Items	16.00		
Sub-Total carried to summary		US\$			
<u>ELEMENT No. 2: ACCESSORIES</u>					
A	Grounding Cable 1x2.5 sqmm	Roll	3.00		
B	Tube chanel 50mmX50mm	PC(S)	10.00		
C	Concrete Nails	KG	5.00		
D	1 gang 1 way switches	PC(S)	10.00		
E	Supply of miscellaneous accessories; connectors insulating tape rubber gromets, cable ties,wood screws wall anchors,raul bolts,sandle clips,labels	LS	1.00		
Add					
A	Transportation	LS	1.00		
B	Electrical Installation Work	Work	1.00		
Sub-Total carried to summary		US\$			
GRANT NO: BAI057 PROPOSED REHABILITATION BAIDOA GIRLS SPORTS CENTER					
<u>SECTION 4: COMPOUND LIGHTING</u>					
<u>MAIN SUMMARY</u>					
REF.	ELEMENT				AMOUNT
1	ELEMENT No. 1: SOLAR SPOT LIGHT				
2	ELEMENT No. 2: ACCESSORIES				
Total					
TOTAL FOR SECTION 4: COMPOUND LIGHTING CARRIED TO GRAND SUMMARY		US\$			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (US\$)	AMOUNT (US\$)
	GRANT NO: BAI057 PROPOSED REHABILITATION BAIDOA GIRLS SPORTS CENTER				
	<u>SECTION 5: ROOMS</u>				
	<u>ELEMENT NO. 1: SITE CLEARANCE.</u>				
A	Cut the existing small trees, grass, and all the debries from internal and external sides of the rooms, clear the site both internaly & externaly & cartaway all the surplus properly.	Item	1.00		
B	Allow for demolition of existing damaged roof, doors, windows load, wheel and cart away all unwanted material . Deposit as directed at least 100m from site	Item	1.00		
	<u>Sub-Total carried to summary</u>				
	<u>ELEMENT NO. 2: REHABILITATION OF WALLS.</u>				
	<u>PREPARATION</u>				
B	Hack to remove old plaster, wire brush surfaces and clean as directed				
	Walling surfaces internally and externally	SM	352.00		
	<u>SEALING</u>				
C	Build the wall gaps and cracks with HCBs and Cement-Sand mortar - of 1:3 mix resue properly and as instructed by the Engineer. Including the stairs for seatings on both sides of the court.	SM	352.00		
	<u>SUPER-STRUCTURE WALLING</u>				
	<u>200x400mm hollow block walling bedded and jointed in cement and sand (1:4) mortar, reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in:</u>				
B	200 mm thick reinforced in every third course	SM	88.20		
	<u>Sub-Total carried to summary</u>				
	<u>ELEMENT NO. 3: CONCRETE WORKS</u>				
	<u>PREPARATION</u>				
C	Hack to remove old screed, clean surfaces. Cart away and deposit as directed	SM	128.00		
	<u>HARDCORE FILL</u>				
D	200mm thick well compacted hardcore filling hand packed and blinded with 25mm thick quarry dust layer to receive surface bed	SM	25.60		

	<u>In situ concrete class 25/20 , vibrated and reinforced as described, in:-</u>			
K	Floor	SM	25.60	
A	Ring beam	SM	7.68	
	<u>Sub-Total carried to summary</u>			
	<u>ELEMENT NO. 4: ROOFING</u>			
	<u>The following in sawn cellcured timber roof trusses with nailed connections including hoisting and fixing in position not exceeding 5.0 meters above ground floor level</u>			
A	100x50mm rafters			
B	100x50mm strut or tie			
C	100x50mm tie beam			
D	100x50mm wall plate fixed with and including 200mm long 12mm diameter rag bolts cast into beam at 1500mm centres			
	<u>Roof sheets as IT4 profile gauge 28 pre-painted galvanised</u>			
E	Roof sheets as IT4 profile gauge 28 pre-painted galvanised roofing sheets laid with 95 mm side and 200 mm end laps hook bolts, PVC washer and tropicalized slip cup	SM	230.0	
	Internal Ceiling Finishes			
A	Chipboard ceiling nailed to the underside of 38 x 38 white wood branding at 600 c/c and trussed rafter fitted complete with white wood architrave to the underside	SM	128.00	
	<u>Sub-Total carried to summary</u>			
	<u>ELEMENT NO. 5: FINISHES</u>			
F	<u>PLASTERED/RENDERED/ROUGHCAST COATINGS</u>			
	Cement-sand 1:3 in 15 mm thick plaster wood floated hard to:-			
G	Walling surfaces internally and externally	SM	352.00	
	<u>Fill uneven surfaces with stucco filler to approval and apply two undercoats of soft white first quality plastic emulsion</u>			
I	Walling surfaces internally and externally	SM	352.00	
	<u>Floor Finishes</u>			

	<u>Cement and sand (1:3) screeds, backings, beds etc</u>			
A	25mm Thick cement/sand (1:4) screed to receive Ceramic floor tiles (measured separately)	SM	128.00	
	<u>Rustic 300x300mm ceramic Tiles from approved supplier fixed with 'seal master 101' or equal and approved tile adhesive: jointed and pointed in 'seal master 201' grout: clean with approved detergent and apply 'Johnson wax' polish: allow for tile spacers: on</u>			
C	Floor tiles including 100mm high skirting all round	SM	128.00	
	<u>Painting</u>			
	<u>Prepare and apply two undercoats of brilliant white emulsion paint (RAL Code 9001) and two finishing coats of first quality brilliant white Silk Vinyl emulsion paint (RAL Code 9001) to:-</u>			
K	Walling surfaces internally	SM	352.00	
	Ditto: To ceiling surfaces	SM	128.00	
	<u>Sub-Total carried to summary</u>			
	<u>ELEMENT NO. 6: OPENINGS</u>			
	<u>WINDOWS</u>			
	<u>Extruded anodised aluminium sliding frame 80x50mm mosquito netting and fabricated aluminium burglar proof grill with 6mm thick glass with blue anti-glare film.</u>			
A	Overall size 1200 x 1500mm high	No.	10.00	
B	Precast concrete window cill size 260 x 50mm Thick sunk - weathered and throated and bedded and jointed in cement sand mortar	No.	10.00	
	<u>DOORS</u>			
	<u>45mm thick solid core flush door to B.S 459: parts faced both sides with 6mm mahogany veneered plywood and lipped on all edges in hardwood, including all planted moulding. Complete with heavy duty hinges, brass locks and glass ventlight</u>			
A	50mm thick single door overall size 900x2400mm high	No.	6.00	
	<u>IRONMONGERY</u>			
	<u>Supply delivery and fix the following ironmongery with matching screws</u>			
D	100mm heavy duty butt hinges	No.	24.00	
G	3 lever mortice lock as Union 2277 complete with Union 2277 683 -06 -2 brass lever furniture	No.	6.00	

Sub-Total carried to summary

ELEMENT NO. 7: ELECTRICAL INSTALLATIONS

Lighting Fittings

Supply and install following lighting fixtures with all accessories as per the specifications and drawings and complete with lamp fitting and accessories of Engineer or approved make.

A	Type 4S - 4x18w surface mount fluorescent light fitting	No.	9.00
B	Type W1 - 1x36w Surface mounted waterproof polycarbonate fluorescent light fitting	No.	4.00

Switches

C	5 Amps two gang two way switch	No	6.00
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Socket outlets

Supply and installation of fused shuttered switched socket outlet to comply with relevant BS standard (Clipsal, Orange, Crabtree/ Tenby/ABB or equivalent). Wiring (including supply of earth wire and all other material required) of above socket outlet using approved type 2.5mm² PVC/PVC copper cable and 2.5mm² earth wire drawn through securely fixed concealed PVC conduit in a ring circuit.
Socket outlet points

D	13 A twin sockets outlet	No	12.00
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Cables, Cable pathways and Conduits

Supply, install, test and commission 450/750 volts 6491X cables with all required accessories for proper installation and operation including conduits, pipes(each cable in separate conduit or pipe), cable lugs, ties... etc. as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.

E	Supply, install and connect complete 1.5 sq. mm colour-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	M	120.00
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F	Supply and install two compartment floor recessed metallic electrical floor box with flap cover complete with lifting handle, cable cable flaps, as Crabtree Britmac or equal and approved	No.	1.00
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HVAC

J	<u>Supply, Deliver, Install, Test and Commission the following AC indoor units including with all accessories including all connections as described.</u> Wall mounted unit of cooling capacity: 12.3kW with inbuilt drain pump, power input: 0.15kW, single phase, Refrigerant R-410A complete with all hanging accessories, remote control, filter chamber, drain pump kit, suction canvas, ceiling panel, wiring from DP switch to fan coil unit, fabricated steel mounting brackets, steel frames and raw bolts, anti-vibration mountings. DP switch to be positioned next to the in door unit. The indoor unit shall be to Daikin/Toshiba/LG make or approved equivalent.	No.	7.00
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Sub-Total carried to summary

GRANT NO: BAI057
PROPOSED REHABILITATION
BAIDOA GIRLS SPORTS CENTER

SECTION 5: ROOMS

MAIN SUMMARY

<u>Ref.</u>	<u>Element</u>	<u>Page</u>	<u>Amount</u>
<u>1</u>	ELEMENT NO. 1: SITE CLEARANCE.	3/2	
<u>2</u>	ELEMENT NO. 2: REHABILITATION OF WALLS.	3/3	
	ELEMENT NO. 3: CONCRETE WORKS		
	ELEMENT NO. 4: ROOFING		
<u>3</u>	ELEMENT NO. 5: FINISHES	3/4	
<u>4</u>	ELEMENT NO. 6: OPENINGS	3/5	
<u>5</u>	ELEMENT NO. 7: ELECTRICAL INSTALLATIONS		
	Total		
<u>TOTAL FOR SECTION 5: ROOMS CARRIED TO GRAND SUMMARY</u>		US\$	

ITEM	DESCRIPTION	UNIT	QNTY	RATE US\$	AMT US\$
	GRANT NO: BAI057 PROPOSED REHABILITATION BAIDOA GIRLS SPORTS CENTER SECTION 6: TOILETS ELEMENT NO. 1 : SITE PREPARATION				
A	Clear site of all bushes and debris. Grab up roots and burn the arisings	m ²	28.00		
B	Load, wheel and cart deposit and spread surplus excavated material where directed on site at a distance not exceeding 100 meters	Item	1.00		
	Sub-Total carried to summary	\$			
	GRANT NO: BAI057 PROPOSED REHABILITATION BAIDOA GIRLS SPORTS CENTER SECTION 6: TOILETS ELEMENT NO. 2 : SUBSTRUCTURES (PROVISIONAL) <u>Excavations including maintaining and supporting sides and keeping free from water, mud and fallen material</u>				
A	Top soil excavation average 200mm deep	m ²	28.00		
B	Excavate trench for foundation not exceeding 1.50 meters deep, starting from stripped levels	m ³	42.00		
	<u>Planking and strutting</u>				
C	Allow for keeping foundations free from water, mud, fallen materials, etc.	LS	1.00		
	<u>Disposal</u>				
D	Return, fill and ram selected excavated material around foundations	m ³	29.40		
E	Load, wheel and cart deposit and spread surplus excavated material where directed on site at a distance not exceeding 100 meters	m ³	12.60		
	<u>Hardcore or other approved filling, as described</u>				
F	300mm thick well compacted hardcore filling blinded with 25mm thick quarry dust layer to receive surface bed	m ²	11.20		
G	50mm thick Quarry dust blinding to surfaces of hardcore :rolled smooth to receive polytheen sheeting (m.s)	m ²	11.20		
	<u>Anti-termite treatment</u>				
H	Gladiator or equal and approved chemical anti-termite treatment, executed complete by an approved specialist under a ten-year guarantee, to surfaces of blinding	m ²	11.20		

I	<u>Damp-proof membrane</u> 1000 gauge polythene or other equal and approved damp-proof membrane, laid over blinded hardcore (m.s) with 300mm side and end laps (measured nett-allow for laps)	m ²	11.20		
	Sub-Total carried to summary	\$			
<u>GRANT NO: BAI057</u> <u>PROPOSED REHABILITATION</u> <u>BAIDOA GIRLS SPORTS CENTER</u>					
<u>SECTION 6: TOILETS</u>					
<u>ELEMENT NO. 3 : CONCRETE WORKS</u>					
<u>Plain concrete class 15 in:</u>					
A	50mm blinding	m ²	0.56		
<u>Insitu concrete class 25/20 , vibrated and reinforced as described, in:-</u>					
<u>BEAMS</u>					
A	Ground beam	m ³	6.30		
B	Ring beam 1	m ³	4.68		
<u>SLABS</u>					
A	200mm thick surface bed laid in bays including all necessary formwork	m ³	5.60		
<u>Ditto:</u>					
C	Steps	m ³	0.60		
<u>Reinforcement, as described:-[PROVISIONAL]</u>					
<u>High yield square twisted reinforcement bars to B.S 4461</u>					
<u>BEAMS</u>					
<u>GROUND BEAM</u>					
A	Y12 (Nominal Diameter 12mm) bars as main bars, Cross-Sectional Area (113mm ²), Mass per unit length (0.888kg/m)	Kg	186.48		
B	R8 (Nominal Diameter 8mm) bars as rings, Cross-Sectional Area (50.3mm ²), Mass per unit length (0.395kg/m)	Kg	60.47		
<u>RING BEAM 1</u>					
C	Ditto for Y12 as main bars	Kg	138.53		
D	Ditto for R8 as rings	Kg	109.09		

	<u>Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net - no allowance made for laps (including bends, tying wire and distance blocks)</u>			
J	Fabric ref. A142 weighing 2.22kg/ sq.metre, in surface bed	m ²	11.20	
	<u>Sawn formwork as described to:-</u>			
K	To edge of floor slab	m ²	3.40	
M	Ditto to sides of steps	m ²	1.70	
	Sub-Total carried to summary	\$		
	<u>GRANT NO: BAI057</u> <u>PROPOSED REHABILITATION</u> <u>BAIDOA GIRLS SPORTS CENTER</u>			
	<u>SECTION 6: TOILETS</u>			
	<u>ELEMENT NO. 4 : WALLING</u>			
	<u>SUB-STRUCTURE WALLING</u>			
	<u>Approved compacted hardcore fill bedded and jointed in cement sand mortar (1:4)</u>			
A	400mm thick rubble stone foundation walling	m ³	21.00	
	<u>SUPER-STRUCTURE WALLING</u>			
	<u>200x400mm hollow block walling bedded and jointed in cement and sand (1:4) mortar, reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in:</u>			
B	200 mm thick reinforced in every third course	m ²	100.00	
	<u>Horizontal Damp Proof Course:one layer of 3-ply bituminous felt or other equal approved (measured nett-allow for laps)</u>			
C	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	LM	35.00	
	Sub-Total carried to summary	\$		

GRANT NO: BAI057
PROPOSED REHABILITATION
BAIDOA GIRLS SPORTS CENTER

SECTION 6: TOILETS

ELEMENT NO. 5 : ROOF FINISHES

The following in sawn cellcured timber roof trusses with nailed connections including hoisting and fixing in position not exceeding 5.0 meters above ground floor level

A 100x50mm rafters

B 100x50mm strut or tie

C 100x50mm tie beam

D 100x50mm wall plate fixed with and including 200mm long 12mm diameter rag bolts cast into beam at 1500mm centres

Roof sheets as IT4 profile gauge 28 pre-painted galvanised

E Roof sheets as IT4 profile gauge 28 pre-painted galvanised roofing sheets laid with 95 mm side and 200 mm end laps hook bolts, PVC washer and tropicalized slip cup

SM

42.0

CEILING FINISHES

Internal Ceiling Finishes

A Chipboard ceiling nailed to the underside of 38 x 38 white wood branding at 600 c/c and trussed rafter fitted complete with white wood architrave to the underside

SM

26.00

Sub-Total carried to summary

\$

GRANT NO: BAI057
PROPOSED REHABILITATION
BAIDOA GIRLS SPORTS CENTER

SECTION 6: TOILETS

ELEMENT NO. 6 : FINISHES

Floor Finishes

Cement and sand (1:3) screeds, backings, beds etc

A 25mm Thick cement/sand (1:4) screed to receive Ceramic floor tiles (measured separately)

m²

5.60

	<u>Rustic 300x300mm non-slip ceramic Tiles from approved supplier fixed with 'seal master 101' or equal and approved tile adhesive: jointed and pointed in 'seal master 201' grout: clean with approved detergent and apply 'Johnson wax' polish: allow for tile spacers: on</u>				
C	Floor tiles	m ²	5.60		
D	<u>Skirtings:</u> 100mm wide with rounded junction with wall finish and covered junction with floor finish	m ²	3.50		
E	Ditto for edge of steps and slab	m ²	1.70		
	<u>Wall Finish</u>				
	<u>15 mm cement and sand (1:3) render, finished with woodfloat to:-</u>				
F	Concrete or masonry surfaces internally and externally Painting	m ²	100.00		
	<u>Fill uneven surfaces with stucco filler to approval and apply two coats soft white external textured paint to:-</u>				
G	Plastered and rendered surfaces	m ²	100.00		
	<u>Glazed 300x300mm ceramic Tiles from approved supplier fixed with 'seal master 101' or equal and approved tile adhesive: jointed and pointed in 'seal master 201' grout: clean with approved detergent and apply 'Johnson wax' polish: allow for tile spacers: on</u>				
G	Plastered surfaces	m ²	100.00		
	<u>Prepare and apply two undercoats of brilliant white emulsion paint (RAL Code 9001) and two finishing coats of first quality brilliant white Silk Vinyl emulsion paint (RAL Code 9001) to:-</u>				
H	Plastered surfaces internally and externally	m ²	100.00		
J	Vent grills	LS	1.00		
	Sub-Total carried to summary	\$			

GRANT NO: BAI057
PROPOSED REHABILITATION
BAIDOA GIRLS SPORTS CENTER

SECTION 6: TOILETS

ELEMENT NO. 7 : ELECTRICAL INSTALLATIONS

Lighting Fittings

Supply and install following lighting fixtures with all accessories as per the specifications and drawings and complete with lamp fitting and accessories of Engineer or approved make.

A	Type 4S - 4x18w surface mount fluorescent light fitting	No.	4.00
B	Type W1 - 1x36w Surface mounted waterproof polycarbonate fluorescent light fitting	No.	1.00
C	150W LED floodlight	No.	1.00

Switches

D	5 Amps one gang one way switch	No	4.00
E	5 Amps two gang one way switch	No	4.00

Socket outlets

Supply and installation of fused shuttered switched socket outlet to comply with relevant BS standard (Clipsal, Orange, Crabtree/ Tenby/ABB or equivalent). Wiring (including supply of earth wire and all other material required) of above socket outlet using approved type 2.5mm² PVC/PVC copper cable and 2.5mm² earth wire drawn through securely fixed concealed PVC conduit in a ring circuit. Socket outlet points

D	13 A twin sockets outlet	No	4.00
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Cables, Cable pathways and Conduits

Supply, install, test and commission 450/750 volts 6491X cables with all required accessories for proper installation and operation including conduits, pipes(each cable in separate conduit or pipe), cable lugs, ties... etc. as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements.

E	Supply, install and connect complete 1.5 sq. mm colour-coded SC cables to lighting points drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	M	20.00
F	Supply and install two compartment floor recessed metallic electrical floor box with flap cover complete with lifting handle, cable cable flaps, as Crabtree Britmac or equal and approved	No.	1.00

Sub-Total carried to summary

\$

GRANT NO: BAI057
PROPOSED REHABILITATION
BAIDOA GIRLS SPORTS CENTER

SECTION 6: TOILETS

ELEMENT NO. 8 : PLUMBING INSTALLATIONS

PIPING

Supply, deliver and install pipes, tubing and fittings as described and shown on the drawings. The pipes shall be PPR PN 20 pipes and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling and to manufacturer's printed instructions. Rates must allow for all Metal/plastic threaded adaptors where required, valves, unions, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic material, expansion arms and bends, crossovers, couplings, clippings, connectors, joints and for the connection of sanitary fixtures etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing procedures. The sizes indicated are the minimum bore sizes.

A	Supply and install heavy duty PPR pipes including all connections	LS	1.00
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SANITARY INSTALLATIONS

Sanitary appliances complete with all the connections to services, waste, jointing to supply overflows and plugging and screwing to the floors. Where trade names are mentioned below, the reference is intended to be as a guide to the type of fitting.

B	Pedestal wash hand basin in white vitreous china size 500x400 mm complete with 'Aztec' chromed taps and handles, a 32mm diameter chrome plated pop-up waste and a 32mm Caradon Terrain' plastic bottle trap. Wash hand basin to be as 'Twyford Galerie Design' or equal and approved	No.	2.00
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C	Supply and fix white glazed fireclay Oriental squatting W.C. suite (HARSA Type), or equivalent complete with plastic double action flushing cistern, and fixed chromium plated tap 1/2", including all water supply pipes 1/2", flushing mechanism, angle valves, 4" diam PVC drainage pipe to the nearest manhole as specification and drawings. as specification and drawings.	No.	4.00
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D	Recessed toilet roll holder in white vitreous china size 150x150 mm. To be as 'Twyford' or equal and approved	No.	4.00
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E	Wall-mounted push-button soap dispenser complete with initial charge and mounting brackets. Soap dispenser to be as 'Star mix' or equal and approved	No.	2.00
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F	6 mm thick polished beveled plate glass mirror size 610x610 mm on foam and 6 mm plywood timber backing in hard wood timber framing fixed on wall with dome headed brass screws	No.	2.00
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G	Supply and fix water storage plastic tank 1.5 m3 capacity with locks for cover, with approved type not less than 32 kg weight, complete with lockable cover, 1 inch diam. automatic float valve, overflow pipe (1" diam) and drip tray, with all connections for rising main and distribution pipe work and stop valves 1" with all accessories as specification and drawings, including painting tanks with white oil paint .	LS	1.00
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H	Allow for all all connections, testing and commissioning of the sanitary fittings and accessories to the entire satisfaction of the Engineer.	LS	1.00
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I	Supply and Install a standby booster pump with capacity = 5 m3/hr and head equal 30 m. The item includes all the required fittings & equipments		
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(valves, T, elbows, non return valves,. etc.), also the item includes steel box protection with lock, automatic operation device and connecting to electrical source with needed cables and all as Representative Engineer instructions as specification and drawings

No. 1.00

Supply & install, water meter device, type (ARAD) or equivalent 1", with gate valve 1" inch diameter, jointing, and connection to the existing water supply pipe 4" including all required fittings and accessories and as specification and drawings.

No. 1.00

Sub-Total carried to summary

\$

GRANT NO: BAI057
PROPOSED REHABILITATION
BAIDOA GIRLS SPORTS CENTER

SECTION 6: TOILETS

ELEMENT NO. 9 : OPENINGS

WINDOWS

Extruded anodised aluminium sliding frame 80x50mm mosquito netting and fabricated aluminium burglar proof grill with 6mm thick glass with blue anti-glare film.

A Overall size 800 x 600mm high

No. 4.00

B Precast concrete window cill size 260 x 50mm Thick sunk - weathered and throated and bedded and jointed in cement sand mortar

No. 4.00

VENT BLOCKS

C 800mm x 600mm

No. 4.00

DOORS

45mm thick solid core flush door to B.S 459: parts faced both sides with 6mm mahogany veneered plywood and lipped on all edges in hardwood, including all planted moulding. Complete with hinges and locks

A 50mm thick door overall size 900x2150mm high

No. 4.00

Supply delivery and fix the following ironmongery with matching screws

B 100mm heavy duty butt hinges

No. 12.00

C 3 lever mortice lock as Union 2277 complete with Union 2277 683 -06 -2 brass lever furniture

No. 4.00

Sub-Total carried to summary

\$

GRANT NO: BAI057
PROPOSED REHABILITATION

BAIDOA GIRLS SPORTS CENTER

SECTION 6: TOILETS

MAIN SUMMARY

<u>No.</u>	<u>ELEMENT</u>	<u>PAGE</u>
1	ELEMENT NO. 1 : SITE PREPARATION	5/1
2	ELEMENT NO. 2 : SUBSTRUCTURES (PROVISIONAL)	5/2
3	ELEMENT NO. 3 : CONCRETE WORKS	5/3
4	ELEMENT NO. 4 : WALLING	5/4
5	ELEMENT NO. 5 : ROOF FINISHES	5/5
6	ELEMENT NO. 6 : FINISHES	5/6
7	ELEMENT NO. 7 : ELECTRICAL INSTALLATIONS	5/7
8	ELEMENT NO. 8 : PLUMBING INSTALLATIONS	5/8
9	ELEMENT NO. 9 : OPENINGS	5/9

Grand Total

TOTAL FOR SECTION 5: CARRIED TO GRAND SUMMARY

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<p>GRANT NO: BAI057 PROPOSED REHABILITATION BAIDOA GIRLS SPORTS CENTER</p> <p><u>SECTION 7 : SEPTIC TANK, SOAK PIT AND FOUL DRAINAGE</u></p> <p>1 <u>ELEMENT 1 : SEPTIC TANK</u></p> <p><u>Excavations including maintaining and supporting sides and keeping free from water, mud and fallen material</u></p>				
A	Stripping of surface and excavation for septic tank in soft soil up to depth of approximately 1.8m; pit dimensions: 32.5m width x 5m length	C.M		22.50	
B	Excavation for septic tank in hard rock at a depth approximately starting at 1.8m, finishing at 3.0 m; 2.5m width x 5m length. (when rock is not encountered, the excavation rates in soft soil will apply at these depths)	C.M		15.00	
	<u>Reinforced concrete class 25,</u>				
C	150mm thick vibrated reinforced concrete for bottom slab (concrete class 20)	C.M		1.88	
	<u>Reinforcement, as described (PROVISIONAL)</u>				
	<u>High yield square twisted reinforcement to BS 4461</u>				
D	10mm high tensile square twisted bars; cold worked; BS4461 including bends, hooks, tying wire, distance blocks and spacers for bottom slab; Y10@ 200mm c/c .	KG		130.00	
E	Supply and fix sawn formwork to sides of bottom slab	L.M		12.50	
	<u>200x400mm block walling bedded and jointed in cement and sand (1:4) mortar, reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in:</u>				
F	Sub-Structure walling	S.M		43.75	
	<u>Cement and sand (1:3) screeds, backings, beds etc</u>				
G	15mm thick two coat cement sand (1:3) plaster trowelled smooth and comprising 12mm backing and 3mm finishing coat for internal walls.	S.M		62.50	
	<u>Reinforced concrete class 25,</u>				
H	Supply all materials and cast a 125mm thick vibrated reinforced concrete slab, mix1:2:4 or class 20/20. Top slab dimensions 2.5m x 5.0m	C.M		1.60	
	<u>Reinforcement, as described (PROVISIONAL)</u>				
	<u>High yield square twisted reinforcement to BS 4461</u>				
I	10mm high tensile square twisted bars; cold worked; BS4461 including bends, hooks, tying wire, distance blocks and spacers for top slab; Y10@ 200mm c/c .	KG		130.00	
J	Supply and fix sawn formwork to sides of bottom slab	L.M		12.50	
K	Supply and fix sawn formwork beneath the slab	S.M		12.50	
L	Manhole walling; 800mm wide x 800mm long x 450mm depth	S.M		3.00	
M	Manhole frame and covers	Pcs.		4.00	

N	Tank piping, fittings and accessories which includes among others ring bearers anchored in the wall and a 2.5 m high 4" vent pipe with rain cover and fly net	Item	1.00		
P	4" brown sewer pipes with accessories laid with 1% slope in trench of 0.5 to 0.8 m depth <u>Reinforced concrete class 25.</u>	L.M	12.00		
Q	Supply all materials and cast R.C. buffer beam, 100mm wide x 450mm deep, concrete class 20	C.M	0.30		
R	12mm high tensile square twisted bars; cold worked; BS4461 including bends, hooks, tying wire, distance blocks and spacers for ring beam reinforcement, 4Y12	KG	22.00		
S	Curing of all concrete and masonry works. Where applicable, sand may be used for covering the concrete or masonry works to be cured and removed afterwards. <u>Step Irons</u>	Item	1.00		
T	Standard Cast iron step iron fixed to concrete walls <u>Water bar</u>	No.	5.00		
U	200 mm thick bulb type PVC or Rubber water bar from approved manufacturer <u>Sundries</u>	LM	10.00		
V	Allow for making 100 mm diameter openings in 200 mm concrete wall.	No.	1.00		
W	Ditto for making 150 mm diameter openings in 200 mm concrete wall.	No.	2.00		
X	Ditto for making 100 mm diameter openings in 150 mm concrete block wall.	No.	2.00		
Total carried to summary		USD			
<u>PROPOSED REHABILITATION</u>					
<u>BAIDOA GIRLS SPORTS CENTER</u>					
<u>SECTION 7 : SEPTIC TANK, SOAK PIT AND FOUL DRAINAGE</u>					
<u>ELEMENT 2 : SOAK PIT</u>					
<u>SITE PREPARATION</u>					
	Prepare site by stripping top 150 mm of soil to remove all debris including sand (if any) from site and carting away spoil	SM	3.00		
<u>EXCAVATION</u>					
	<u>Excavation including maintaining and supporting sides and keeping free from water, mud and fallen materials by bailing, pumping or otherwise</u>				
	Pit excavation commencing at reduced levels depth not exceeding 1.50m deep	m ³	1.50		
	Ditto 1.50 - 3.00 metres deep	m ³	0.15		
	Remove surplus excavated material from site	m ³	2.00		
	Backfill around foundation	m ³	0.40		
	Rubble stone fill	m ³	2.00		

CONCRETE WORKS

Vibrated reinforced concrete class 15 (1:3:6) with 20mm maximum aggregate as described in:

300mm thick cover slab

m³ 1.00

REINFORCEMENT

Mesh fabric reinforcement ref. No. A142 laid in slab with minimum 150 mm side allowance

m² 3.00

FORMWORK

Sawn formwork to edges of slab over 225mm girth but not exceeding 300mm

m 6.40

Ditto to soffits of cover slab

m² 3.00

Total carried to summary

\$

PROPOSED REHABILITATION
BAIDOA GIRLS SPORTS CENTER

SECTION 7 : SEPTIC TANK, SOAK PIT AND FOUL DRAINAGE

ELEMENT 3 : FOUL WATER DRAINAGE

Supply and fix uPVC soil system to BS 4660 and BS 4515 and MuPVC waste system to BS 5255 with screwed and socketed joints to BS 21. Solvent welded joints shall be as per the system manufacturers written instructions. Tenderers must allow in their pipework prices for all the couplings, connectors, joints etc. as required in the running lengths of pipework and also where necessary for pipe fixing clips, holder bats, plugs and screwed. The installation must comply with BS 5572 and fixing to be to the manufacturer's printed instructions.

Note: Trade Names

Caradon Terrain Ltd.'s pipe and fittings have been used as a guide to the type and quality of materials required. Other brands must be equal and approved in writing by the Engineer before installation. One brand only shall be used and inconsistency shall not be accepted.

Excavation and Earthwork

Excavation of drain trenches including maintaining sides and keeping bottoms free from water, mud and fallen materials, grading bottoms, and carting away surplus excavated material.

A	For 150 mm uPVC drain pipe average depth 750 mm	m ³	15.00
B	<u>uPVC drain pipes and fittings to BS 5481</u> Supply and install UPVC pipes 160mm, SN8 for drainage, with sockets , work includes excavating of trenches (depth 0.75- 1.5m),bedding, compacted backfilling with clean sand in layers not more than 25 cm, connecting to the manholes and hydraulic test according to the specifications and drawings	m	15.00
C	<u>Imported Filling</u> Selected granular fill materials in trenches	m ³	4.50
D	Compacted backfill	m ³	0.45
	<u>Inspection Chambers (4No.)</u>		
	<u>Excavations</u>		
A	Excavate in soft material for inspection chambers including loading and		

	carting away surplus excavated materials not exceeding 1.0 metres deep from ground level.	m ³	1.15	
	<u>Concrete</u>			
B	50mm thick plain concrete class 15 (1:3:6) blinding	m ³	0.02	
C	100 mm thick plain concrete class 20 (1:2:4) base	m ³	0.14	
D	Profiled channel finished in water proof cement sloped to fall to the direction of effluent flow	m ²	16.00	
	<u>Formwork</u>			
E	Formwork to sides of concrete base,	m ²	1.92	
	<u>Construct solid concrete block walling; bedding, jointing and pointing in cement sand (1:3) mortar</u>			
F	150 mm Thick walling	m ²	5.76	
	<u>Covers</u>			
G	500 x 500mm medium duty pre-manufactured cast iron cover including frames	nr	4.00	
H	Allow for all necessary connections of the inspection chambers to the septic tanks	Item	1.00	
I	Allow for setting to work, testing and commissioning of the drainage system.	Item	1.00	
	TOTAL CARRIED TO SUMMARY			
	 <u>GRANT NO: BAI057</u> <u>PROPOSED REHABILITATION</u> <u>BAIDOA GIRLS SPORTS CENTER</u>			
	<u>SECTION 7 : SEPTIC TANK, SOAK PIT AND FOUL DRAINAGE</u>			
<u>REF.</u>	<u>COLLECTION TITLE</u>			<u>AMOUNT</u>
1	ELEMENT 1 : SEPTIC TANK			
2	ELEMENT 2 : SOAK PIT			
3	ELEMENT 3 : FOUL WATER DRAINAGE			
	Total			
	<u>Total carried to summary</u>			

ITEM NO.	DESCRIPTION	PAGE	AMOUNT (US\$)
	<p><u>GRANT NO: BAI057</u> <u>PROPOSED REHABILITATION</u> <u>BAIDOA GIRLS SPORTS CENTER</u></p> <p><u>GRAND SUMMARY</u></p> <p>1 SECTION 1: PRELIMINARIES AND GENERAL DESCRIPTIONS</p> <p>2 SECTION 2 : PLAYGROUND.</p> <p>3 SECTION 3: BOUNDARY WALL.</p> <p>4 SECTION 4: COMPOUND LIGHTING</p> <p>5 SECTION 5: ROOMS</p> <p>6 SECTION 6: TOILETS</p> <p>7 SECTION 7 : SEPTIC TANK, SOAK PIT AND FOUL DRAINAGE</p> <p>TOTAL AMOUNT CARRIED TO FORM OF TENDER</p>		
		US\$	
	<p>SIGNED:</p> <p>(CONTRACTOR)</p> <p>Address:</p> <p>Tel No:</p> <p>Date:</p> <p>SIGNED:</p> <p>(EMPLOYER)</p> <p>Address:</p> <p>Tel No:</p> <p>Date:</p>		