

**TECHNICAL SPECIFICATION AND DESCRIPTION
FOR THE CONSTRUCTION PROJECT OF A
MARKET SHED OF 20 COUNTERS
AT BABESSI COUNCIL AREA IN NGOKETUNJIA
DIVISION, NORTHWEST REGION OF CAMEROON**

TECHNICAL SPECIFICATIONS

SUMMARY

- **PRELIMINARY WORKS**
- **SHAPING AND DRESSING OF STONES FOR THE FOUNDATION WALL OR MOULDING OF FOUNDATION BLOCKS 20X20X40**
- **MOULDING OF CEMENT BLOCKS 15X20X40**
- **BUILDING OF FOUNDATION**
- **MASONARY AND ELEVATION**
- **ROOF WORK**
- **METAL WORK/WOOD WORK**
- **PAINTING-DECORATION**
- **SURFACE DRAINAGE**

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GENERAL INSTRUCTIONS

This present special Technical Clauses describes the construction of a market she of 20 counters at Babessi Council area in Ngoketunjia Division of the North West Region. The various works to be executed are detailed in this technical specification, with the technical drawings (appendix A) and the bill of quantities (Appendix B) being the consultation documents.

CONTROL OF QUALITY OF EQUIPMENT AND PERSONNEL BEFORE START OF ANY WORKS

1. Setting out of the building
2. Excavation of trenches
3. Elevation of foundation (molding of blocks, reinforcement, sand, gravel, stones dressing, cement, concrete, mortar (dosages) and foundation finished and back filling)
4. Elevation of short walls (reinforcement, sand, gravel, cement, form work and height of the building (6 courses (lines of cement blocks) before chain beam + copings).
5. Mating for decking and decking proper sale slabs which will act as tables (grain sizes of aggregates, dosage, spacing for mating and quality of materials)
6. Roof (wood, pitch), trusses, nails, roofing sheets, accessories, ceiling boards (4mm) in the various phases. Reception of assembled roofing members before putting in place of roofing sheets and accessories
7. Concreting of floor and plastering (surface finished, materials, concrete, mortar (dosages)
8. Metal works (materials (metal sheets, angle bar, aluminum frames, etc...), locks, hinges, etc. and finished product).
9. Drainage (excavation and materials, concrete (dosages)

ANY CONTRACTOR WHO AVOIDS THE RECEPTION OF ANY OF THE PHASES ABOVE WILL BE DOING IT AT HIS OWN RISK (DEMOLITION).

TECHNICAL SPECIFICATIONS

The works, which are object of the present Contract, include all the works included in the technical estimates here below.

A) BRIEF PRESENTATION OF THE PROJECT

These present works concern the construction of 20 counters market and a gender friendly toilet in Babessi, Ngoketunjia Division. This building will be 19.15 m long by 14.10m large. Its height will be 6.00m from floor finish to roof tops. It will have 20 counters. The roof is 2.70m high from the wall plate level to the top. The roofing sheets are TOLE BAC 6/10e and the fascia boards, 20cm high round the perimeter of the roof. The external walls will be painted with "Pantex 1300", the internal walls and the ceiling with "Pantex 800", while the doors, the skirting and the foundation will be in oil paint. A gutter will be constructed round the building to facilitate drainage. The whole building will be electrified. There shall be sale slabs realized in reinforced concrete with a removable additional top in ceramic tiles.

NOTE: An expansion joint shall be provided immediately as the length of the structure exceeds 25m

B) DESCRIPTIVE NOTES:

TECHNICAL DESCRIPTIONS AND INTRODUCTION

Technical descriptions of the norms in building construction are essential in defining the consistency and method of execution of the assigned task. Its smooth realization therefore depends on the strict respect of the updated general norms governing building construction works alongside all the specifications of the contract. These descriptions are established to precise and complete indications found on the bill of quantities and estimates as well as on the various plans of this project. (See appendix B)

C- MODE OF EXECUTION

The setting out of the building shall be duly supervised by the Control Engineer (Divisional Delegate of Public Works for Ngoketunjia). In the same vein, all building materials (sand, gravel, cement, rods, roofing sheets,

ridge covers, aluminum sheets for fascia board, wood, paint, plywood, metal doors, angle bars, electrical materials and fittings, etc..) shall be approved by the Control Engineer before use. All phases of works (form work, steel work, concrete/mortar mix, prepared surfaces, etc...) shall be afore received in minutes by the control.

1- GENERALITIES

PROJECT SIGN BOARD

The Contractor shall put in place at his expense project sign board(s) giving information about the project in conformity with the terms of the contract, indicating the project title, the enterprise, the contract engineer, the source of funding, the date of notification and the execution deadline.

INFORMATION TO BE POSTED: The Contractor shall put up a visible sign board (total height=2.80m, width=1.20m, board thickness=2.5cm at 1,20m above the ground level with poles embedded in concrete) at the entrance to the site on a place approved by the Contract Engineer, bearing the following text written on one

REPUBLIC OF CAMEROON

Peace - Work – Fatherland

CONSTRUCTION OF MARKET SHEDS PROJECT IN BABESSI COUNCIL AREA, NGOKETUNJIA DIVISION NORTH WEST REGION

CONTRACTING AUTHORITY: ***INTERNATIONAL LABOR ORGANIZATION (ILO)***

FUNDING SOURCE: ***AfDB***

CONTRACT ENGINEER: ***TBD***

PROJECT MANAGER: ***ILO***

IMPLEMENTING PARTNER: ***TBD***

DURATION OF TRAINING OF TRAINEES: ***TWO MONTHS (40 WORKING DAYS)***

DURATION OF CONTRACT: ***SIX MONTHS***

HYGIENE AND SAFETY

The contractor shall ensure total hygiene and security of the site by constructing a temporal pit latrine and putting up a temporal fence around the project site as prescribed by the contract engineer.

The contractor shall be responsible for the protection of the structure before final acceptance. He shall equally be responsible for all materials and tools present on the project site. ILO shall seek an insurance policy to cover work related accidents during the implementation period.

The contractor shall take all preventive measures against accidents. The project owner reserves the right to intervene in case of any emergency without necessary interfering with the responsibilities of the contractor.

REMUNERATION OF TRAINEES:

The implementing partner shall work with the ILO Consultant to partition the trainees according to the identified trades of the work. The Local Council Concerned shall provide a list of both skilled and unskilled trainees and from this submission, the implementing partner shall retain trainees from it progressively. He shall ensure that each trainee takes home not less than the minimum basic amount per day as per labor standard.

VERIFICATION OF DIMENSIONS

The contractor shall verify all dimensions on the plans. For execution no dimension shall be measured with a scale rule from the plans. The contractor shall check in-situ the possibility of translating the dimensions on plans to the structure before work begins. He shall refer to the Contract Engineer in case of any doubt. He shall not on his own modify anything on the structure and shall consult the Contract Engineer concerning any changes that he considers necessary.

All modifications made by both parties should not deviate from the original plan and must not have any budget incidence.

CONCRETE/MORTARS

In all masonry works, the mixture of concrete or mortars shall respect certain elementary qualities here in below described.

a) SAND

All the sand to be used shall be free from acids, organic matter, animal or vegetable matter. The grain size should be between 0/2.5mm for mortars and screed finish and between 0/5mm for structures in reinforced concrete. It shall be river sand. The ILO Consultant will have the task of certifying this before it is used.

b) GRAVELS

All the gravel for concrete shall be homogeneous. This gravel shall be free from silt or other noxious elements by sieving or washing with clean water. The grade should be 5/15 and 15/25. The ILO Consultant will have the task of certifying this before it is used.

c) WATER

Water used in mixing concrete and mortars or washing of aggregates shall be free from salt and other impurities.

d) CEMENT AND ADDITIVES.

Cement used for concrete and mortars shall comply with the general conditions required by the rules in force. The cement to be used for this project should be **CPJ 42.5** types manufactured by "CEMENCAM" or any other accredited cement production company in Cameroon and shall not present any trace of humidity. To avoid humidity, cement should be well packed on a well-ventilated platform free from moisture. Any cement or additive which does not present a dusty aspect will be rejected forthwith and taken off the site immediately. The implementing partner has the obligation to ensure good storage facility for this.

e) REINFORCEMENT

Rods for reinforced concrete are either the 'Round Smooth' type of 235 MPA or the 'Rough' type "HA" with an elastic limit of 400 and shall conform with the BAEL 91 or BS specifications. These rods shall be quite clean

and free from oil, rust or paint.

They should not be twisted or recovered from other usage. There shall be a strict respect of plan in terms of steel works.

f) FORMWORK

Formwork for this exercise is the simple type. It shall be able to bear without noticeable deformations all the weight and pressure exerted on it by the concrete. It shall equally bear effects of concrete vibration and the weight of workers on it during concreting.

The formworks should be water tight to avoid the leakage of cement grout.

II. - SITE INSTALLATION

This essential task which is the responsibility of the contractor consists of the following;

❖ Erecting a temporal structure for the accommodation of a packing store and an office in which the site Log book and building plans will be permanently available. It also includes the preparation of a surface for the assembling of materials.

❖ Where necessary, temporary toilet, water and electrical connections will be required at the site to enhance a smooth realization of the project.

- SITE PREPARATION, STUDIES, EATHWORKS. STUDIES

Studies comprise of:

❖ Drawing of Execution or detail plans to suitable scales.

❖ Establishment of the work planning chart.

❖ Other necessary details, which shall be made known to the Control Engineer before site visits.

PREPARATORY WORKS - IMPLANTATION

The setting out will be in respect of the technical plans. The setting out profile boards will be at least 1.50 m from the outside axes, this to facilitate terracing (trench and other earthworks) and a good circulation. No starting of excavation will be accepted by the Contract Engineer without the checking of the conformity of the setting out axes of the building.

The minimal depth of the excavation trenches will be of 50 cm, and depending on the soil bearing capacity. Where there is black cotton soil or soil with low bearing capacity at the bottom of the trench, the contractor shall continue excavation up to a depth as will be approved by the Control Engineer. The excavations will be done manually and no concrete or mortar shall be laid on the bottom of the trench without the acceptance of the trench by the control engineer. (See the working drawings at appendix A)

CLEARING AND LEVELING OF THE SITE

The portion on which this building will be set out will be cleared and leveled, as well as clearing ten (10) meters wide round the building (this includes clearing of grass, felling of shrubs and trees, uprooting of tree stumps, Etc.). The vegetable matter, vegetative soil and other debris shall be taken away to a site approved by the Control Engineer. (Site visits is mandatory) **EXCAVATION**

In order to ensure a good stability of the building, foundation trenches shall be deep enough to meet a soil of good bearing capacity.

At all points of the foundation, the depth of trenches should not be less than 60cm. The walls of the trenches should be well straightened and the floor well leveled.

No excavation of the trenches should be done until the Control Engineer has accepted the setting out of the building on minutes. Equally no elevation of the foundation should be done until the control Engineer has accepted the excavation of trenches on minutes. During this acceptance he will equally accept the coarse sand, the gravel and the reinforcement of the foundation. Therefore, the reinforcement will be done simultaneously with excavation of trenches

BACKFILLING

The soil excavated from the trenches may be used in backfilling provided it is of good quality. If not, selected or well graded soil (lateritic soil) from a borrow pit should be used for the purpose. The backfilling will be

done in compacted layers of 20cm thick each. The soil to be used for backfilling should be free from noxious substances including vegetable matters. Any rejected soil should be discarded at a site approved by the contract engineer.

III. - FOUNDATION WORKS

III-i Lean concrete

This will be dozed at 150kg/m³ and 5cm thick laid on the floor of the trenches.

III-ii - FOUNDATION FOOTINGS

These will be isolated footings in reinforced concrete:

- Dosage: The concrete will be dozed at 350 kg/m³.
- Reinforcement: It will be with Ø12 rods with hooks spaced at 15cm.
- Dimensions: 15 x 80 x 80 for footing and 20 x 30cm, 20 x 20 for the ground pillars

III-iii - FOUNDATION WALLS

The foundation walls shall be of 40cm thick solid block masonry or on stones works. These stones should be black stones (basalt) with an acceptable Los Angeles. These stones will be well shaped and erected using cement mortar dosed at 350kg/m³ such that no stone should touch another one.

III-iv - FOUNDATION PILLARS

The reinforced concrete pillars as indicated on working drawings are described as follows.

20x20 and 20x25 wall pillars

Dosage: 350kg/m³

Rods:

❖ Within the building: 20x20cm pillars

- Four (06) Ø12 longitudinal rods with Ø6 square stirrups rods at every 20cm and 15cm for overlap.

III-v - FOUNDATION RING BEAM.

❖ Dosage 350kg/m³

❖ Rods: Ø6 rectangular stirrups at every 20cm + 6Ø12 longitudinal rods.

V-vi - STAIRS AND/ OR SLABS AT THE ENTRANCES OF THE BUILDING

Reinforced concrete slabs of as in the plan and approved by the Control Engineer.

V - ELEVATION AND MASONRY WORKS V- i WALLS

The supporting walls shall be of sand screed block work with 15x20x40 duly laid in stretcher bond with cement mortar.

Note: The partition walls should be in cement blocks work with 15x20x40 blocks.

V-ii PILLARS

These shall be in reinforced concrete of 20cm x 20cm in the walls dosed at 350kg/m³. Reinforcement:

❖ Ø6 square stirrups rods at every 20cm + 4Ø10 longitudinal rods for 20cm x 20cm pillars.

V-iii - LINTELS

These are in reinforced concrete of 20cm x 20cm in respect of the thickness of the walls. Dosage: 350kg/m³.

Reinforcement:

❖ Ø6 Stirrups rods every 25cm and 20cm at overlap+ 4 Ø10mm longitudinal rods.

V-iv -BEAMS

• WALL PLATE (RING BEAMS)

They will be in reinforced concrete of 20cm x 30cm for the main beams and 20cmx20cm for secondary beams

- Dosage: 350 kg/m³

- Reinforcement: Ø6 stirrups rods at every 20cm and 20cm at overlap + 4 Ø10 and 6Ø10 mm longitudinal rods.

NOTE: Reinforcement Schedule.

No	STRUCTURAL ELEMENT		MAIN RODS (HA)	STIRRUPS		DOSAGE	ROD STRENGTH
		N ^o	□	□	SPACING		
1	Foundation pillars and Ground beam	4	10mm	6mm	15cm	350kg/m ³	Fe-E-400
2	Lintel (15x20)	4	10mm	6mm	15cm	350kg/m ³	Fe-E-400
3	Wall pillars 20x30	4	10mm	6mm	15cm	350kg/m ³	Fe-E-400
4	Wall plate (tie-beams) 20x20	4	10mm	6mm	15cm	350kg/m ³	Fe-E-400
5	Wall plate (tie-beams) 20x30	4	6mm	6mm	15cm	350kg/m ³	Fe-E-400
6	Matting for floors	No	6/6		15cm	350kg/m ³	Fe-E-400

NB: - Spacing of stirrups at all overlap should be 20cm V-v-

OVERSITE CONCRETE

This is mass and reinforced concrete of 8cm and 15cm thickness respectively to be laid over the hardcore filling. The surface shall be float finished.

In zones where the soil has a good bearing capacity, mass concrete shall be used while in marshy areas reinforced concrete will be more adequate.

The characteristics of this reinforced concreting in marshy areas shall be as follows: Concrete: Dosage 300 kg/m³, reinforced by a mat of Ø6 rods spaced at 20cm in both directions.

Thickness: eight (08) cm and fifteen (15) cm on a polystyrene paper of 400 microns

V-ix-CEMENT/SAND MIX FOR FLOOR FINISH

This is cement/sand mortar spread on the over site concrete to a thickness of 4cm and duly trowel finished.

- Dosage: 400kg/m³

V-ix-CEMENT/ SAND PLASTER ON WALLS

This shall be realized in two coats: Roughing-in with cement mortar of coarse sand dosed at 500kg/m³ and a finishing coat with cement mortar of fine sand dosed at 400kg/m³ with an average thickness of 1.5 cm.

The recommended sand for this purpose is medium/soft sand free from all impurities and salt.

VI-FRAMEWORK, ROOF, AND CEILING WORKS VI-i-ROOF

TRUSSES

These are rafters made up of hard wood 5cmx15cm duly treated with xylamon or other insecticide such as solignum approved by the Control Engineer and assembled with tie beams of 5cmx15cm and braces of 5cmx15cm as designed in plan.

They are rigidly fixed to the pillars' tie rods and the tie rods provided on the ring beam.

PURLINS

These are hardwood purlins of 5cmx8cm duly treated with xylamon, solignum or other insecticide approved by the Control Engineer and fixed on the trusses to receive the roofing sheets.

N.B. ALL THE TIMBER FOR ROOFING SHALL BE TREATED WITH XYLAMON OR COLOURLESS SOLIGNUM OR ANY OTHER INSECTICIDE APPROVED BY THE CONTROL ENGINEER.

VI-ii-ROOFING SHEETS

The building shall be roofed with TOLE BAC 6/10^e (th) roofing sheets gauged with a fixed length prescribed in the drawings (6m long each) or by the Control Engineer. These roofing sheets shall be fixed in place with special nails, covers and bitumen sheets sold together.

- The ridge shall be covered with aluminum ridge piece.
- The fascia board shall consist of 5cm x 8cm hard wood which shall receive aluminum sheets with aluminum lining.

VII-i-ANGLE BARS FOR FLOOR FINISH

Angle bar 30mm shall be fixed on edges of the floor finished along the veranda, the doors (eventually) and steps

N.B All the metal works will be given two coats of anti-rust before Provision to the site. IX-PAINTING AND DECORATION

Surfaces to be painted shall be brushed, dressed, smoothened and primed with ordinary paint (national paint) before applying a thoroughly mixed homogenous paint as prescribed.

The following specifications shall be respected:

IX-i-PRIMING

Internal walls: To be primed with ordinary paint

IX-ii-FINISHING

- **External walls:** Shall be polished with **2 Coats of Pantex '1300'** or its equivalence backed by an equivalence table from the supplier.
- **Internal walls:** Shall be given **2 Coats of Pantex '800'** or its equivalence backed by an equivalent table from the supplier.
- **Elevated foundation wall:** 02 coats oil paint
- **All metal works:** shall be given 02 Coats of oil paint.

X-EVACUATION NETWORK

All pipes in the evacuation network shall be PVC installed with strict respect of the architectural plans that aims to guarantee the greatest ease of intervention for maintenance.

The dimensions to be used shall be the following:

Diameter 40, Diameter 63, Diameter 100, Diameter 125

Including elbows joints, T-joints, stop corks and other accessories as well as the execution of pipelines and the protection of pipes according to technical specifications.

SANITARY DEVICES GENERALITIES EQUIPMENTS

All pipes to be installed shall be chosen in accordance with technical specifications with a view to minimizing loss in hydraulic pressure.

SUMMARY OF BATCHING ONE BAG OF CEMENT

Designation	Dosage of cement CPJ 35	Sand (wheelbarrows)	Gravel 5/15 (wheelbarrows)	Gravel 15/25 (wheelbarrows)
Concrete for Blinding and frog-filling	150 kg/m ³	2 of coarse sand	4	0
Mass concrete for floor	300 kg/m ³	1 of coarse sand	1	1.5
Concrete for RC elements	350 kg/m ³	1 of coarse sand	1	1
Mortar for roughing-in plaster (1st coat)	500 kg/m ³	1.5 of coarse sand	0	0
Mortar for finishing plaster coat (2 nd coat)	400 kg/m ³	2 of coarse sand	0	0
Sand screed for floor finish	400 kg/m ³	2 of coarse sand	0	0
Mortar for manufacture of hollow blocks (non-load bearing)	300 kg/m ³	3 of coarse sand	0	0
Interlay mortar	300 kg/m ³	3 of medium sand	0	0
Mortar for stone masonry	350kg/m ³	2.5	0	0

APPENDIX A: QUANTITATIVE ESTIMATE

CONSTRUCTION OF A 20 COUNTER MARKET SHED AT BABESI MARKET					
N°	Work designation	unit	Qty	U . Price	Total
100	SITE INSTALLATION				
101	Site ware house, site information board, setting out, and first aid box	All	1		
102	Studies and production of execution and final project document	All	1		
103	Administrative and Management Cost (most not be greater than 25%) of project implementation cost	All	1		
	SUB TOTAL				
200	EARTH WORKS				-
201	Removal of top soil and leveling of general site	m²	2500		-
202	Digging				-
202.1	Pit digging according to plan	m3	38.4		-
202.2	Linear digging follow plan	m3	101		-
202.3	Back filling with selected soil	m3	63		
	SUB TOTAL				
300	FOUNDATION				
301	Blind concrete at 150 kg/m3 PLC	m3	3.8		-
302	Reinforced concrete at 350 kg/m3 de PLC				
302.1	<i>Concern:</i> Footing (60x60x20cm)	m3	1.8		
302.2	<i>Concern:</i> Starter pillars (60x20x20cm)	m3	1.5		
302.3	<i>Concern:</i> lower beam (Lx20x20cm)	m3	8.2		
303	Block work at foundation				
303.1	Blockwork with size 20 x 20 x 40cm with mortar 60cm high	m²	101		
303.2	Sand filling with thickness of 0,2 m	m3	60.6		
303.3	Nylon Paper of 200 microns	m²	150		
303.4	Reinforced concrete 8cm thick mixed at 350 kg/m3 for floor	m3	16.2		
303.5	Ordinary Plastering with cement mortar mixed at 400 Kg/m3		58		
303.6	Plastering on external surface of the foundation wall	m²	39.2		
	SUB TOTAL				
400	MASONRY & RENOVATION				
401	Concrete mixed at 350 kg/m3 :				
401	<i>Concern:</i> Pillars 15x15cm for structural support	m3	3.4		-
402	<i>Concern:</i> Beam upper chaining 15x20cm	m3	6.2		
403	<i>Concern :</i> Counter slab 5 cm thick	m3	3		
404	<i>Concern :</i> Counter chaining 5 cm think	m3	1		
405	<i>Concern :</i> Parapet evacuation concrete structure 7 cm think	m3	7.6		
	SUB TOTAL				
500 A	MASONRY & ELEVATIONS				
501	Ordinary plastering with mortar mixed at 400 kg/m3				
501.1	<i>Concern :</i> Internal and external counter walls	m²	342.4		-
501.2	<i>Concern :</i> External walls	m²	0		
502	Supple of blocks and wall construction				
502.2	hollow block of dimension 15 x 20 x 40 fastened with mortar Mixed at 300 kg/m3 for counters	m²	140.22		
	SUB TOTAL				
600	FRAME ROOF				
601	wooden roof Roof truss in 3 x15 cm en bois dur traité				

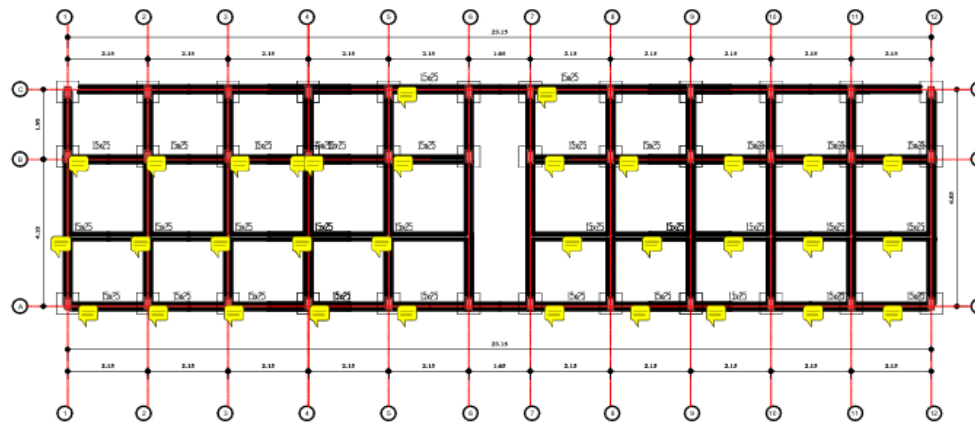
601.1	Concern: Two slop roof truss 6m by 1,35 high	u	12		-
601.2	wooden Rafter 8 x 8 cm in treated of length 5m	ml	746.35		
601.3	Facia board (3x25)	ml	79.4		
602	Roofing sheet				
602.1	supply and laid in place of roofing sheets aluminum metal tray sheet 6/10 with accessories	m ²	150.8		
602.2	Supply and laid in place of ridge cap in Aluminum sheet	ml	40.5		
602.3	Supply and lay in place of edge sheet in Aluminum	ml	78		
602.4	PVC plastic pipe for evacuation of rain water (PVC 110mm)	ml	25		
	SUB TOTAL				
900	Metallic Works				
901	Metallic shorter for counters with dimensions (80x60) cm	u	20		
902	Metallic corner threshold of 40 at veranda surroundings.	ml	80		
	SUB TOTAL				
1100	FINISHING				
1101	Smooth screed cement on mortar surface of 4 cm at 400 kg/m3	m ²	209.9		
	SUB TOTAL				
1500	PAINTING				
1502	Supply and application of paint type PANTEX 1300 on external wall	m ²	342.3		
1503	Supply and application paint type PANTEX 800 on internal walls,	m ²	140.3		
1504	Supply and application glycopytic paint type PANTINOX SR9 on metallic, wood and plinth	m ²	62.65		
	SUB TOTAL				
1700	EXTERNAL WORKS				
1701	External concrete 8cm thick with 350kg/m3, width	m3	5.25		
	SUB TOTAL				
1800	SPECIAL EQUIPEMENT				
1801	Provision of wooden chair 30cmx40cm with vanished hard wood	u	20		
1802	Provision of trash can 60l	u	2		
1803	Supply of small working materials (15Pick axes, 6wheelbarrox, 2 watering cans, 1 sledge hammer, 1 digging bar, 20 spades, 20 shovels, 5 cutlasses and 3 digging bars)	Ens.	1		
1804	Provision of security equipment (80 complete uniforms, boots, security helmets and hand gloves)	U	80		
	SUB TOTAL				
TOTAL GENERAL					
ESTABLISHED THIS ESTIMATE AT THE SUM OF:					

SUMMARY

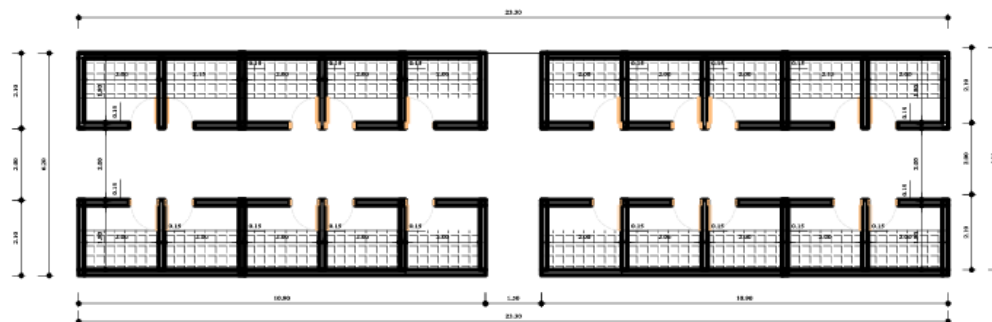
SUMMARY QUANTITATIVE ESTIMATE FOR A SHE WITH 20 COUNTERS SHED AT BABESSI		
1	CONSTRUCTION OF A 20 COUNTER MARKET SHED AT BABESI MARKET	
GENERAL TOTAL		
ESTABLISHED THIS ESTIMATE AT THE SUM OF:		

Appendix B : TECHNICAL DRAWINGS.





FOUNDATION PLAN



BABESSI COUNCIL AREA

PROJECT OWNER:
HIMO-MINTP PROJECT

PROJECT OWNER VISA: _____

REV	DESCRIPTION	DATE

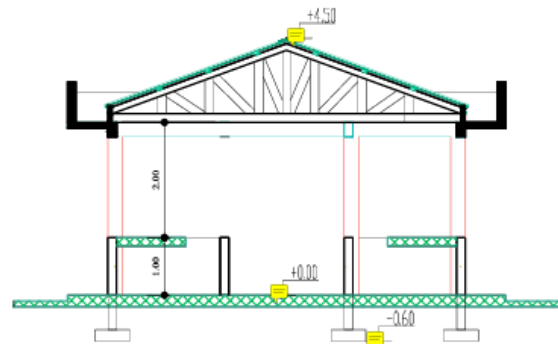
PROJECT TITLE:
CONSTRUCTION OF MARKET
SHEDS IN NORTHWEST REGION,
CAMEROUN.

PLAN TITLE:
DISTRIBUTION AND
FOUNDATION PLAN

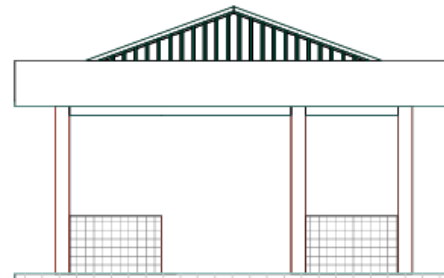
PICTURE OF THE BUILDING

CONTENT:
20 MARKET SHEDS

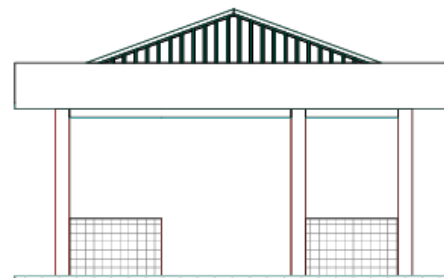
DESIGNED BY:



SECTION B-B



LEFT VIEW



RIGTH VIEW

NORTHWEST REGION
BABESSI COUNCIL AREA

PROJECT OWNER:
HIMO-MINTP PROJECT
PROJECT OWNER VISA: _____

REV	DESCRIPTION	DATE

PROJECT TITLE:
CONSTRUCTION OF MARKET
SHEDS IN NORTHWEST REGION,
CAMEROUN.

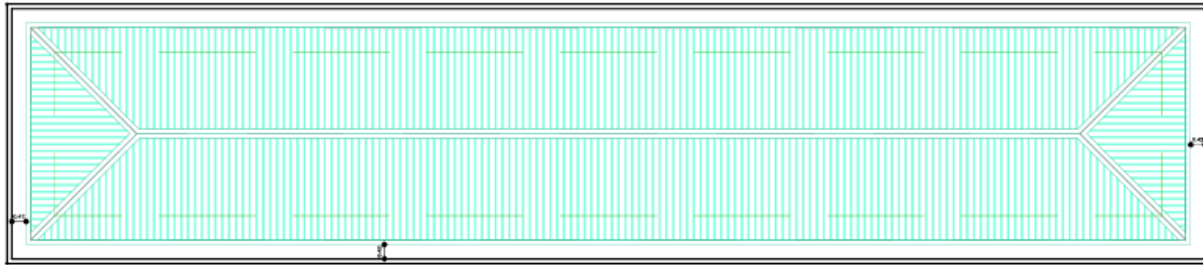
PLAN TITLE:
SECTION B-B AND VIEW

PICTURE OF THE BUILDING

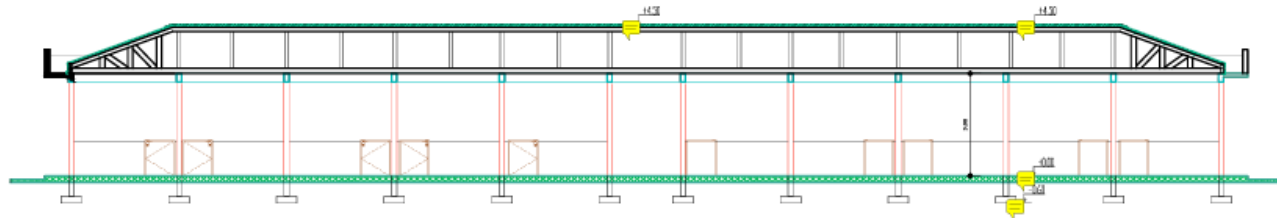
CONTENT:
20 MARKET SHEDS

DESIGNED BY:
CONSULTANT
TELL: 673235856

SCALE: 1:50 DRAWING
NUMBER: 2



ROOF PLAN



SECTION A-A

REPUBLIC OF CAMEROON
PEACE-WORK-FATHERLAND
NORTHWEST REGION
BABESSI COUNCIL AREA

PROJECT OWNER:
HIMO-MINTP PROJECT
PROJECT OWNER VISA: _____

REV	DESCRIPTION	DATE

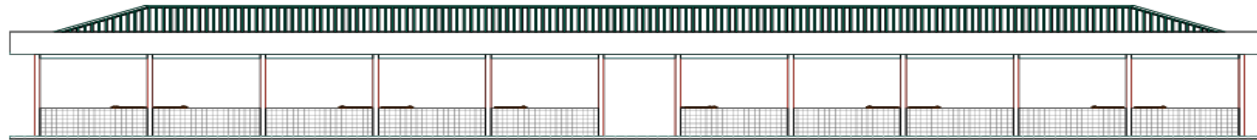
PROJECT TITLE:
CONSTRUCTION OF MARKET
SHEDS IN NORTHWEST REGION,
CAMEROUN.

PLAN TITLE:
ROOF AND SECTION A-A

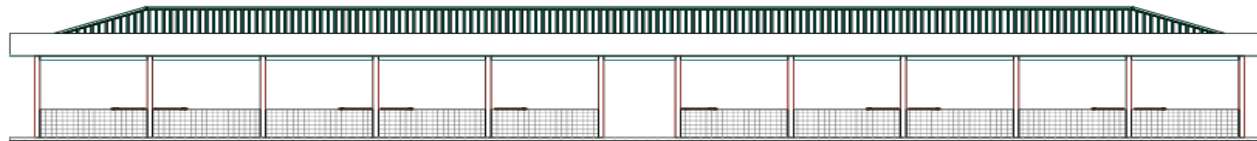
PICTURE OF THE BUILDING

CONTENT:
20 MARKET SHEDS

DESIGNED BY:
CONSULTANT
TELL: 673235856



FRONT VIEW



BACK VIEW

PROJECT WORK ATTACHED
NORTHWEST REGION
BABESSI COUNCIL AREA

PROJECT OWNER:
HIMO-MINTP PROJECT
PROJECT OWNER VISA: _____

REV	DESCRIPTION	DATE

PROJECT TITLE:
CONSTRUCTION OF MARKET
SHEDS IN NORTHWEST REGION,
CAMEROUN.

PLAN TITLE:
VIEWS

PICTURE OF THE BUILDING

CONTENT:
20 MARKET SHEDS

DESIGNED BY:
CONSULTANT
TELL: 673235856

SCALE: 1:50 DRAWING
NUMBER: 4

