GROUP 2 CONSTRUCTION PLC.

TECHNICAL PROPOSAL

“Don’t’ open the bid document before bid opening date”

LEGAL STATUS

Bidding Forms

Table of Contents

A. Bid Submission Sheet 1

B. Bidder Certification of Compliance 4

1. General Information About the Bidder 4

1. Financial Standing 4

1. Bidder's Organizaton 6

2. Technical Qualifications, Competence, and Experience in the Procurement Object 8

1. Historical Contract Non-Performance 10

1. Current Contract Commitments / Works in Progress 10

1. Professional Qualifications and Capabilities 10

1. Comments and Suggestions on the Schedule of Requirements 10

3. Quality Assurance / Managerial and Control Procedures 10

4. Further Information 11

5. Bidder's Audit Agency 11

6. Bank Account Number and Bank Address 11

A. Financial Offer -Unit Price Contract 12

1. Bill of Quantities 12

1. Detailed Breakdown of Prices 22

A. Dated on [insert day] day of], 20 26

B. Technical Proposal 27

1. Personnel 27

1. Equipment 31

1. Work Plan and Site Organization 32

7. Method Statement 40

5 Others 41

A. Curriculum Vitae for Proposed Personnel 42

A. Form - Data on Joint Venture/Consortium 43

A. Bid Submission Sheet

Place and Date: G+1 MULTIPURPOSE No 401 January 28, 2019
Procurement Reference Number: EM/001/2019
To: Employer: MR. XYZ
Attention:
P.O. Box: 32863
Town/City: Addis Ababa
Country: Ethiopia

SUBMITTED BY:

	Complete Legal Name and Address of the Seat of the Bidder	Nationality
Leader	JORDANO JOMOLE JORGE Tel: +251-92O652543 GROUP 2 Construction Plc.	Ethiopian

In response to your Bidding Documents for the above Procurement Number: we, the undersigned, hereby declare that:

(a) We have examined and accept in full the content of the Bidding Documents for the, Procurement Number: EM/001/2019.We hereby accept its provisions in their entirety, without reservation or restriction.

(b) We hereby declare that all the information and statements made in this Bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

(c) We, the undersigned, offer to execute in conformity with the Bidding Documents dated the following Works: January 27, 2019. The following Works The contract scope of work includes the construction of a G+1 MULTIPURPOUSE building. Architecture area is 331m^2 .The architecture height is 6.6m and The total price of our Bid Is 5,399,461.48 BIRR

(d) Our Bid shall be valid for a period of 60days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before expiry of that period;

(e) The prices in this bid have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other bidder or competitor relating to:

i. Those prices;
ii. The intention to submit a bid; or
iii. The methods or factors used to calculate the prices offered.

(f) The prices in this bid have not been and will not be knowingly disclosed by the GROUP 2 Construction PLC., directly or indirectly, to any other bidder or competitor before bid opening.

(g) We, including any subcontractors for any part of the contract resulting from this procurement process, are eligible to participate in public procurement in accordance with ITB Clause 4.1 and have not been debarred by a decision of the Public Procurement and Property Administration Agency from participating in public procurements for breach of our obligation under previous contract

(h) We are not insolvent, in receivership, bankrupt or being wound up, not have had our business activities suspended and not be the subject of legal proceedings for any of the foregoing;

(i) We have fulfilled our obligations to pay taxes according to Ethiopian Tax laws

(j) We have read and understood the provisions on fraud and corruption in GCC Clause 5 and confirm and assure to the Employer that we will not engage ourselves into these evil practices during the procurement process and the execution of any resulting contract;

(k) We have not committed an act of embezzlement, fraud or connivance with other Bidders.

(l) We have not given or have been offered to give inducement or bribe to an official or procurement staff to influence the result of the Bid in our favor.

(m) We are not participating, as Bidders, in more than one bid in this bidding process, other than alternative bids in accordance with the Bidding Document;

(n) We do not have any conflict of interest and have not participated in the preparation of the original Schedule of Requirements for the Employer;

If our bid is accepted, we commit to submit a performance security in accordance with the GC 5 of the Bidding Documents, in the amount of 10% (**539,946.148**birr)for the due performance of the Contract;

(o) We, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries the bidder and sub-contractors are all Ethiopian.

(p) We will inform the immediately if there is any change in the above circumstances at any stage during the implementation of the contract. We also fully recognize and accept that any inaccurate or incomplete information deliberately provided in this Bid may result in our exclusion from this and other contracts funded by the Government of the Federal Democratic Republic of Ethiopia.

(q) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall not constitute a binding contract between us, until a formal contract is prepared and executed.

(r) We understand that you reserve the right to reject any or all Bids that you may receive.

Name JORDANO JOMOLE JORGE
In the capacity of. GENERAL MANAGER
Signed
Duly authorized to sign the Bid for and on behalf of GROUP 2 Construction PLC.
Dated on January 28 Monday, 2019

Attachments:

1. Valid trade license indicating the stream of business in which the GROUP 2 Construction PLC is engaged;
2. VAT registration certificate issued by the tax authority ;
3. A valid tax clearance certificate issued by the tax authority ;
4. Business organization registration certificate or trade license issued by the country of establishment ;
5. Relevant professional practice certificates.
6. Bid Security; and
7. Other documents requested by the Public Body

..

B. Bidder Certification of Compliance

Place and Date: G+1 MULTIPURPOSE No 401 January 27, 2019
Procurement Reference Number: EM/001/19
To: Employer: ABC PLC
Attention:
P.O. Box: 32863
Town/City: Addis Ababa
Country: Ethiopia

1. General Information About the Bidder

Bidder's Legal Name:	GROUP 2 construction Plc.
Place of Registration:	Addis Ababa
Legal Address in Country of Registration:	LIDETA SUB CITY WEREDA 3 Addis Ababa, Ethiopia
Authorized Representative Information	Name: JORDANO JOMOLE JORGE Position: General Manager Address: Ledeta building 3nd floor Room No 5 Telephone/Fax: +251-920652543 E-mail address: jhonjomole@gmail.com

We have attached an official written statement by a power of attorney (or notary statement, etc.) proving that the above person, who signed the Bid on behalf of the company/joint venture/consortium, is duly authorized to do so.

2. Financial Standing

FINANCIAL DATA	Historic Information for Previous Years in				
	Year 2	Year 1	Last Year	Current Year	Average
A. Information from Balance Sheet					
1.Total Assets	8,000,000	6,000,000	120,000,000	130,000,000	66,000,000
2. Total Liabilities	120,000	1,000,000	10,400,000	25,000,000	9,130,000
I. Net Value (1-2)	8,800,000	3,500,000	116,000,000	143,000,000	67,825,000
3. Current Assets	1,400,000	2,300,000	20,000,000	115,000,000	34,750,000
4. Short-term debts	500000	250000	5000000	1000000	1,687,500

II. Working Capital (3-4)	800000	480000	10000000	32000000	10,820,000
B. Information from Income Statement					
1. Total Revenue	11,000,000	9,000,000	12,000,000	15,000,000	11,750,000
2. Pre-tax Profits	1,100,000	840,000	1,900,000	5,000,000	2,210,000
3. Losses	0	0	0	0	0

Has adequate financial resources to manage this Contract as established by our audited financial statements, audited by an independent auditor, and submitted in this Bid. The following table contains our financial data. These data are based on our annual audited accounts. Figures in all columns have been provided on the same basis to allow a direct, year-on-year comparison to be made.

Along with financial data we provided above we have attached the following documents as proof of our financial standing, as required in the BDS:

(a)

(b)

Attached documents comply with the following conditions:

- Documents reflect the financial situation of the Bidder or partner to a Joint Venture, and not sister or parent companies;
- Historic financial statements are audited by a certified accountant;
- Historic financial statements are complete, including all notes to the financial statements;
- Historic financial statements correspond to accounting periods already completed and audited.

Annual Turnover Data (Works Only)	
Year	**Amount and Currency**
2019	50,000,000
2018	15,000,000
2017	20,000,000
Average Annual Works Turnover*	28,333,333.33

*Average annual turnover calculated as total certified payments received for work in progress or completed over the number of years specified in Section 3, Evaluation and Qualification Criteria, Sub-Factor 4.2, divided by that same number of years.

Financial Resources		
No.	**Source of Financing**	**Amount**
1	GROUP2 GENERAL CONTRACTOR PLC	25,000,000

3. Bidder's Organization

GROUP 2 CONSTRUCTION PLC is a Grade 5 General contractor (GC-5) registered and licensed by the Ministry of Urban Development and Construction (MOUDC). In the

company's five years' brief history, GROUP 2 CONSTRUCTION PLC. Continues to show great achievements which can be traced in its track records. It has grown its capacity in capital and manpower to match the ever growing demand of the construction industry through understanding Clients core values and aspirations that is the key to its success.
Our financial status has had a good standing in execution of previous works, in case of shortcomings we would take a loan from our trusted bank,
CBE bank. As a grade 5 contractor we have the necessary required equipment if compulsory we will rent and lease them from our business partners NIYALA GENERAL TRADING PLC.

Our vision

- To be the company of first choice for all stakeholders
- To discover new ways and to turn ideas into tangible reality
- To pursuit technical excellence and willingness to invest in research and innovation.

Our value

- Lead by an example
- Work as one team
- Find or follow a better way
- Deliver on our promises, aim to exceed
- Collaborate with Clients and Partners
- People are our greatest Asset

Mission statement

- We will combine leanness and agility to enable our own success
- We will aspire for greatness – becoming an example of excellence

The company Strives to be an example in the construction industry by supplying quality product with reasonable cost in a timely manner. GROUP 2 CONSTRUCTION PLC. Has made all the necessary preparation to make sure that it achieves its objectives & deliver with excellence to our Clients & Partners.

2. Statement of Qualifications

2.1 Legal status

2.1.1 Constitution or legal status of company

GROUP 2 CONSTRUCTION PLC is registered and licensed as a (Grade seven GC-5) by the Ministry of Works and Urban Development Construction works

coordinating Bureau. It has also a Business License from Addis Ababa Administration Trade and Industrial Development Bureau with registration No. 04/1/4/25013/96 and has a registered VAT certificate from Federal Inland Revenue Authority with registration no.011193 as well as a registered TIN number 0001758948. A copy of documents indicating the constitution or legal of the contractor attached.

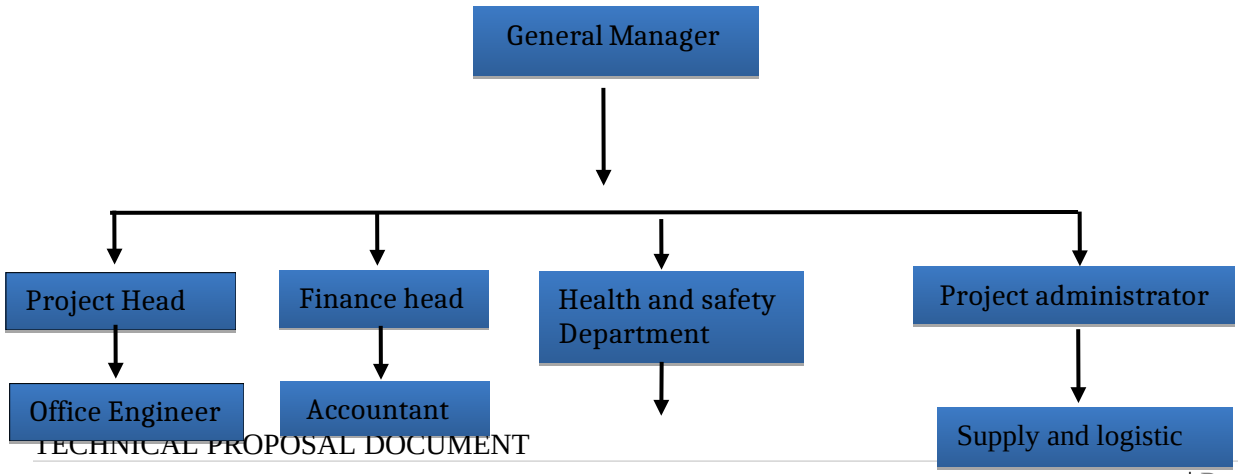
2.1.2 Power of Attorney of signatory of Bid

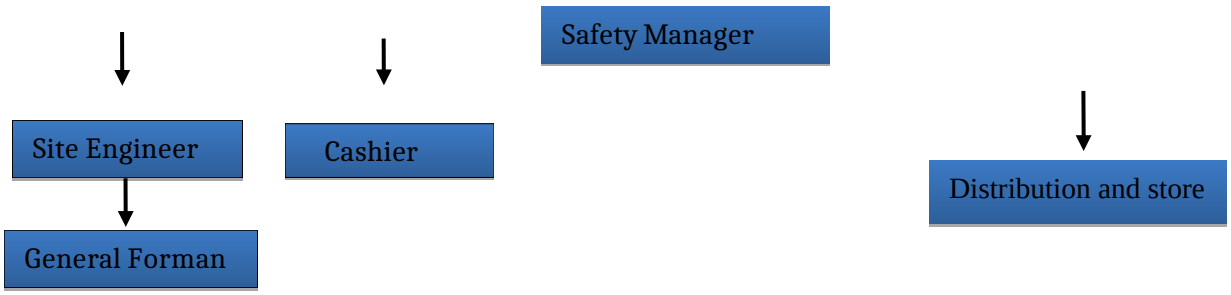
Power of attorney of signatory of Bid has been fully delegated to the company general manager JORDANO JOMOLE JORGE. As it is clearly indicated in the article of association of the company. Please find the attached herewith a copy of Article of association of the company describing power of attorney of signatory as attached herewith.

1	Name of company	GROUP 2 Construction Plc.
2	Office Address	LEDETA Building 3rdfloor Room No 5
3	Contact person	JORDANO JOMOLE JORGE Mob:+251-920652543 Fax:+25114670588 E-mail address: jhonjomole@gmail.com
4	Place of registration	LIDETA SUB CITY WEREDA 03 Addis Ababa, Ethiopia

Organizational Chart

GROUP 2 CONSTRUCTION PLC has implemented the following organizational map in the completed and at hand projects the following organizational chart has proven to work effectively in interlinking and need office level.





3. **Technical Qualifications, Competence, and Experience in the Procurement Object**

As proof of the GROUP 2 CONSTRUCTION PLC. Technical and professional ability in executing Works of a similar nature and volume to the ones listed in our Bid the table below summarizes the 3 major relevant contracts successfully completed in the course of the past 5years with a budget of at least that of this Bid.

General Experience

Name of project/kind of works	Value of Works	Period of Contract	Percentage of Works Completed	Client and Place	Prime Contractor (P) or Subcontractor (S)	Final acceptance issued?
A. In Home Country						
Saving houses apartments BOLE ARABESA site	25,799,712.95	2 YEARS	100%	A.A.H.C.P.O Project 15 H.C.B.O	GROUP 2 Construction Plc.	YES
Saving houses apartment SUMMIT	24,272,642.03	3YEARS	100%	City government of Addis Ababa saving houses development enterprise	GROUP 2 Construction Plc.	YES
YEKA ABADO site (SARA AMPOLE)	32,722,593.64	2.6 YEARS	100%	City government of Addis Ababa saving houses development enterprise	GROUP 2 Construction Plc.	YES

4. Historical Contract Non-Performance

GROUP 2 CONSTRUCTION PLC. Has no Non-Performing Contracts in accordance with Section 3, Evaluation and Qualification Criteria and No pending litigation in accordance with Sub-Factor 3.4 of Section 3, Evaluation and Qualification Criteria.

5. Current Contract Commitments / Works in Progress

No.	Name of Contract	Client's Contact Details	Value of outstanding work	Estimated Completion Date	Average Monthly Invoicing over Last Six Months
1	AHADU APARTMENT	6,741,111.70	95%	2YEARS	1,200,000
2	G+8 mixed use building BEHERAWI Addis Ababa	12,948,000.19	80%	2.4YEARS	2,350,000
3	G+3 residential building	4,874,456.35	90%	1.6YEARS	1,245,950

6. Professional Qualifications and Capabilities

In order to proof our professional qualifications and capability the following table contains GROUP 2 CONSTRUCTION PLC. Personnel statistics for the current and the two previous years.

Average manpower	Year before last		Last year		This year	
	Overall	Specialists in Technical Area	Overall	Specialists in Technical Area	Overall	Specialists in Technical Area
Permanent	7	4	10	8	10	9
Temporary	16	10	20	13	28	16
TOTAL	23	14	30	21	38	25

7. Comments and Suggestions on the Schedule of Requirements

- Sanitary and electrical installation are not specified

8. Quality Assurance / Managerial and Control Procedures

GROUP 2 Construction plc. Highly considers quality assurance in projects in order to prevent a very large cost due to defects or failures in constructed facilities. Even with minor defects, re-construction may be required and facility operations impaired. Increased costs and delays are the result. In the worst case, failures may cause personal injuries or fatalities.

The construction materials to be supplied from local sources and abroad need approval by the consultant prior to their delivery to the construction site. All the materials and workmanship shall be of

the respective kind described in the technical. We will assign fulltime QC supervisor on site who would be responsible to assure that quality standards are met and are carried out consistently.

9. Bidder's Audit Agency

Our auditor name and address is the following

Name- Jemal siraje Chartered Certified Accountant

Phone: +251-913661178

Address; Mexico, Debrework, Fourth floor room no 25, Addis Ababa

10. Bank Account Number and Bank Address

The bank account into which payment should be made and bank address are the following:

CBE account No 01470057124870
Name MR. Surafel Haile
In the capacity of General Manager
Signed
Duly authorized to sign the Bid for and on behalf of GROUP 2 Construction PLC.
Dated on January 28, 2019
Attachments:

1. Statement issued by a power of attorney authorizing the signatory of the Bid and all related documentation;
2. Certificates of satisfactory execution of contracts provided by contracting parties to the contracts successfully completed in the course of the past years, as required in the BDS,
3. Audited financial statements;
4. Documents required as proof of the Bidder's financial standing, as listed in the BDS.

Financial Offer -Unit Price Contract

1. Bill of Quantities

Place and Date: Addis Ababa 12/31/2019
Procurement Reference No.: EM/001/2019
Alternative No.: EM/0011/4202
To: Mr. AYMEN ALEMU
Addis Ababa
Ethiopia

G+1 MULTI PURPOSE BUILDING					
Item No	**Description**	**Unit**	**Qty**	**Rate**	**Amount**
	A-SUB STRUCTURE				
	1. 0 EXCAVATION & EARTH WORK				
1.01	Clear and remove top soil to an average depth of 20 cm.	m^2	368.56	31.25	11,517.41
1.02	Bulk excavation in ordinary soil to reduce levels to the designed level up to 500mm .	m^3	164.71	9.52	1,568.04
1.03	Pit excavation 25 cm away from the max edge of footing pad at each side in M3….. (100 CM)	m^3	455.22	347.66	158,260.08
1.04	Fill around footing and foundation columns with imported selected materials from out side well rolled and compacted in layers not exceeding 200 mm thick.	m^3	290.51	195.73	56,861.28
1.05	fill around massonary wall	m^3	15.00	195.73	2,935.94
1.06	selected material fill at an average depth of 30 cm	m^3	35.00	195.73	6,850.52
1.07	Cart away surplus excavated materials from the site as per the Engineer's instruction.	m^3	327.97	84.90	27,843.29
1.08	25cm basaltic stone hard core under concrete floor	m^2	274.88	135.77	37,320.11
	Total carried to Summary				303,156.66

	2. 0 CONCRETE WORK				
2.01	50mm lean concrete quality C-5, 150 kg of cement/m3: under				
	a) Under foundation pad	m^2	56.93	15.60	888.11
	b) Under Grade beam	m^2	26.79	15.60	417.92
2.02	Reinforced concrete quality C-25				
	a) in pad foundation	m^3	27.72	3,112.12	86,275.68
	b) In grade beam	m^3	10.72	3,112.12	33,349.45
	c) In 150mm thick ground floor slab	m^2	59.55	466.58	27,783.36
	d) foundation column	m^3	2.73	3,112.12	8,507.75
	e) Outside stairs	m^3	1.68	3,112.12	5,228.36
2.03	Provide, cut and fix in position sawn zigba wood or steel formwork which ever appropriate.				
	a)To grade beam	m^2	10.72	654.52	7,013.82
	b)To steps	m^2	9.16	622.47	5,701.86
	c) Foundation pad	m^2	65.62	622.47	40,846.71
	d) foundation column	m^2	26.40	622.47	16,433.30
2.04	Mild steel reinforcement				
	a) dia 6 mm plain bar	kg			-
	b) dia 8 mm deformed bar	kg	859.00	73.21	62,887.45
	c) dia 10 mm deformed bar	kg	147.00	64.66	9,505.66
	d) dia 12 mm deformed bar	kg			-
	e) dia 14 mm deformed bar	kg			-
	f) dia 16 mm deformed bar	kg	963.00	64.30	61,917.89
	g) dia 20 mm deformed bar	kg	2435.00	62.98	153,351.73
	h) dia 24 mm deformed bar	kg			-

2.05	10mm thick expansion joint filler under grade beam	m	44.65	20.00	893.00
	Total carried to Summary				521,002.06
	3.0 MASONRY WORKS				
3.01	500mm thick hard trachytic roughly dressed stone masonry foundation wall below ground level bedded in cement mortar mix ratio (1:3)	m^3	13.03	2,194.61	28,599.20
3.02	ditto item 3.01 for above the ground	m^3	15.93	2,445.40	38,949.01
	Total carried to Summary				67,548.21
	Total carried to Summary for all sub sturacure works ...				891,706.94
	B-SUPER STRUCTURE				
1.01	**CONCRETE WORK**				
	Reinforced concrete quality C-25,				
	a) In elevation columns	m^3	13.82	3,112.12	42,997.55
	b) In first floor beam	m^3	10.72	3,112.12	33,349.45
	c) In Top tiebeams	m^3	10.72	3,112.12	33,349.45
	d) Staircase and landing	m^3	4.14	3,112.12	12,874.83
	e) stair beam	m^3	0.44	3,112.12	1,369.33
	f) In Rc Gutter	m^3	4.40	3,112.12	13,704.37
	i) In 150mm first floor slab	m^2	396.98	487.41	193,488.57
	i) In 150mm flatfloor slab	m^2	296.16	487.41	144,350.22
	h) water tank slab	m^2	11.78	487.41	5,742.63
1.02	Provide, cut and fix in position sawn zigba wood or steel formwork which ever appropriate.				
	a) In elevation columns	m2	142.51	670.27	95,518.66
	b) In first floor beam	m2	120.56	654.52	78,905.51
	c) In Top tiebeams	m2	78.44	654.52	51,337.18

	d) Staircase and landing	m2	26.08		-
	e) landing beam	m2	3.50	654.52	2,290.82
	f) In Rc Gutter	m2	45.33	654.52	29,666.06
	i) In 150mm first floor slab	m2	120.56	648.57	78,187.83
	i) In 150mm flatfloor slab	m2	59.68	648.57	38,703.15
	h) water tank slab	m2	15.15	648.57	9,825.77
1.30	Mild steel reinforcement according to structural drawings. Price includes cutting, bending, placing in position , tying wire, concrete spacers and chairs.				
	a) dia 6 mm plain bar	kg			-
	b) dia 8 mm deformed bar	kg	2151.00	73.21	157,474.86
	c) dia 10 mm deformed bar	kg	1692.00	64.66	109,412.12
	d) dia 12 mm deformed bar	kg			-
	e) dia 14 mm deformed bar	kg	1561.00	63.33	98,851.30
	f) dia 16 mm deformed bar	kg	1682.00	64.30	108,147.34
	g) dia 20 mm deformed bar	kg	2716.00	62.98	171,048.59
	h) dia 24mm deformed bar	kg			
	Total carried to Summary				1,510,595.60
	2. BLOCK WORK				
2.01	20cm thick Class B external HCB wall which can satisfy the designed strength , bedded in cement mortar (1:3).Price shall include mortar bedding.	m^2	277.02	378.19	104,766.19
2.02	Ditto as Item 2.01 but for150mm HCB guard wall	m^2	353.60	361.93	127,978.01
	Total carried to Summary				232,744.20
	3. ROOFING				
3.01	For 15 cm solid slab flat roof				

	A) 3cm thick cement sand screed over light weight pumice	m^2	294.67	177.12	52,191.62
	B) Average 12cm thick light weight concrete over roof slab giving 2%slope towards down pipe trowel finished to receive water proofing material.	m^2	294.67	186.69	55,011.24
	C) Bituminous modified polymer water proofing material with 4 mm thick sand finisher equivalent all accord-ing to manufacturers instruction.	m^2	294.67	55.00	16,206.67
3.02	G30 CIS Roofing (without truss and purlin) price includes ridge cover and washer	m^2	412.20	243.10	100,204.33
3.03	G28 Sheet Metal Down down pipe	ml	42.00	24.97	1,048.69
3.04	Flashing.	ml	42.86	183.09	7,847.25
3.05	20 cm wide fascia board	ml	39.60	271.19	10,739.03
3.06	gutter development size 40	ml	52.00	318.44	16,559.06
	Total carried to Summary				259,807.89
	4. CARPENTRY & JOINERY				
	Wood roof truss member :				
4.01	10 cm. dia. Upper & Lower Chords Eucaliptus Wood	m	139.80	33.53	4,688.15
4.02	6 cm. dia. Vertical & Diagonal Members of a Truss	m	139.44	45.98	6,411.71
4.03	5 X 7 cm. Tid Wood Roof Purlin	m	360.00	94.74	34,108.11
4.04	INTERNAL DOORS Supply & fix 40mm thick wood framed door both sides covered with 4mm ply wood sides ,top, sides covered with 4mm ply wood sides ,top,bottom lipped & edged with hard wood price includes three coats of varnish paint & cylindrical				
	a) Type D1 size 850x2600 mm	no	10.00	2,566.29	25,662.93
	b) Type D2 size 700x2600 mm	no	18.00	2,113.42	38,041.52
	Total carried to Summary				108,912.42
	5.METAL AND ALUMINUM WORK				

	Aluminium framed windows, top windows,window doors and doors As per iso standard aluminium frame profile thickness should be 2mm anodized thickness 15-25 micro unit , & all fixing accessories should be of same standard as that of the profile . Complete work according to suppliers instruction. Price includes 6mm thick non reflective clear glass				
	NB-All dimensions shall be verifies on site prior to production. All lockes,handles,springs& lashes shall be of best quality & approved by the Arch.				
	WINDOWS				
	a) Type W1 Size :1500x1500mm	no	14.00	5,850.00	81,900.00
	b) Type W2 Size :1000x400mm	no	6.00	1,024.00	6,144.00
	c) Type W3 Size :1000x1500mm	no	2.00	3,840.00	7,680.00
	d) Type W4 Size :2500x2600mm	no	4.00	16,640.00	66,560.00
	DOORS				
	external				
	a) Type D1 size 850x2600 mm	no	10.00	5,657.60	56,576.00
	b) Type D3 size 1300x2600 mm	no	2.00	8,652.80	17,305.60
5.2	c)Type D4size 1250x2600 mm	no	2.00	8,320.00	16,640.00
	Supply and fix Ø50mm CHS hand rail(2mm thick) of 40x40x2mm RHS Post Anchored to the slab, 40X40X2mm RHS handrail in two rows horizontally and 30X20X2mm Vertical C/C spacing 228mm price shall include one coats of antirest paint two coats of synthatic enamel paint and necessary works and material to full fill the jobs.				
	a) Hand rail	m	16.00	1,440.00	23,040.00
	b)Guard rail	m	50.00	1,440.00	72,000.00

	Total carried to Summary				347,845.60
	6. FINISHING				
6.1	WALL FINISH				
	Finishing work shall includes all surface pre cleaning, preparation of finish, polishing and cleaning at the end of finishing work. Apply two coats of plaster in cement mortar to				
	A) External exposed concrete & concrete block wall surface	m^2	276.52	276.42	76,435.53
	B) Internal exposed concrete & concrete block wall surface	m^2	396.17	276.42	109,509.13
	C) Concrete ceiling surface	m^2	293.13	222.29	65,161.22
	D) Stair belly,sides & landing	m^2	203.08	222.29	45,143.40
	E)water tanker ceiling	m^2	110.00	222.29	24,452.31
6.05	Apply fine coat of fine cement sand plaster to internal plastered surface	m^2	396.17	45.12	17,875.19
6.06	Gypsum plastering to all internal plastered surface	m^2	396.17	53.28	21,107.94
6.07	Gypsum board suspended ceiling nailed on & including 4x4cm zigba batten at c/c60cm both ways price includes corner list & all suspension material complete work	m^2	105.91	180.00	19,064.25
6.08	6mm thick glazed ceramic wall tile bedded on & including cement mortar backing and joints grouted in white cement.	m^2	148.26	616.83	91,450.03
6.09	9mm thick non slippery ceramic floor tile bedded on and including 50mm thick cement sand screed and joints grouted .	m^2	18.73	632.55	11,845.85
6.10	25mm thick tid perquet floor with all acceceries	m^2	45.00	1,714.44	77,149.69
6.10	25mm thick non slippery terrazo floor tile bedded on and including 30mm thick cement sand screed and joints grouted .	m^2	110.00	541.24	59,536.68
6.10	9mm thick non slippery pvc floor tile bedded on and including 50mm thick cement sand screed and joints grouted .	m^2	32.00	620.61	19,859.48
6.11	marble tile skirting stuck to wall with cement mortar	m^2	85.00	355.01	30,175.59
6.12	ceramic tile skirting stuck to wall with cement mortar	m^2	155.00	157.64	24,434.88

6.13	Copping in harar marble tile bedded in cement mortar & joints grouted .Size - 20/2cm	m^2	149.55	1,599.35	239,183.51
6.14	8cm pvc skirting	m	117.84	107.95	12,721.05
6.15	Copping in harar marble tile bedded in cement mortar & joints grouted for riser	m	50.00	409.06	20,452.98
6.16	Copping in harar marble tile bedded in cement mortar & joints grouted for tread	m	50.00	585.81	29,290.33
6.17	3cm thick marble window sill 30cm	m	44.00	417.23	18,358.04
	TOTAL TO SUMMARY……..				1,013,207.06
	7. PAINTING				-
7.1	Quartz paint External plastered wall surface	m^2	396.00	53.25	21,087.46
7.2	Prepare and apply by brush three coats of synthetic enamel paint to:-				-
	A)Internal plastered wall surface	m^2	575.00	64.47	37,070.60
	B)plastered ceiling surface	m^2	293.13	77.42	22,694.06
	C) plastered stair case belly & sides surface	m^2	197.10	77.42	15,259.44
	D)Gypsum board ceiling surface	m^2	293.13	77.42	22,694.06
	Total carried to summary ……..				97,718.15
	8)GLAZING				
8.1	5mm thick clear glass glazed with beads, rubber gasket and sealant to alumunium profile frames.	m^2	51.72	567.29	29,340.15
8.2	5mm thick frosted glass glazed with beads, rubber gasket and sealant to alumunium profile frames.	m^2	4.40	710.66	3,126.88
	Total carried to Summary ……..				32,467.03
	9.SANITARY INSTALLATION				
	A. Interior Installation				-
	Water Supply Pipes & fittings				
9.1	Supply and install galvanized steel pipes from elevatedwater tank to cold and hot water distibution to all santitary fixtures as shown on the drawing				

	Diameter 15 mm	ml	60.00	65.00	3,900.00
	Diameter 20 mm	ml	40.00	85.00	3,400.00
9.2	Supply and install gate valves made of brass completewith rubber gaskets, hand wheels andconnecting pieces such as unions etc, for all fixtures				
	Diameter 15 mm	Pcs	14.00	40.00	560.00
	Diameter 20 mm	Pcs	10.00	45.00	450.00
	Elevated water tank				
9.3	Supply and mount 8m^3 fibre glass water tank on roof complete with all the necessary accessories				
	a) Size of water tank = 4 x 2 m	Pc	1.00	15,000.00	15,000.00
	b)Diameter 32mm brass gate valve for outlet pipe	Pcs	1.00	350.00	350.00
	c)Diameter 32mm brass gate valve for drain pipe	Pcs	1.00	350.00	350.00
	d)Diameter 32mm brass gate valve for inlet pipe	Pcs	1.00	250.00	250.00
	e)Diameter 40mm PVC float valve	Pcs	1.00	350.00	350.00
	f)Diameter 50 mm PVC vent pipe with vent cap length of pipe 30 cm				
	g)Diameter 32mm drain and over flow galvanized steel pipe				
	Sanitary Fixtures				
9.4	Supply and install low level water closet white glazed vitreous China WC pan of approved quality complete with all the necessary accessories	Pcs	12.00	3,500.00	42,000.00
9.5	Supply and install hand wash basins made of white vitreous China with two tap holes complete with all the necessary accessories Size :- 500 x 405 mm	Pcs	12.00	3,500.00	42,000.00

9.6	Supply & install white glazed steel cast-iron shawor tray with slip resistance base,15mm chrome plated shower mixer with cold & hot taps,concealed riser tube chrome plated shower arm tube & swivel spray head,38mm brass shower tray waste drain hole with chrome plated grated,dia 38mm uPVC trap.				
	size 900x900mm	Pcs	12.00	3,500.00	42,000.00
9.7	Supply and install single tubular chrome plated swingtowel hanger,with chrome plated fastening screws completed with all the necessary accessories	Pcs	12.00	200.00	2,400.00
9.8	Supply and fix toilet paper holder in white vitreous China complete with all the necessary accessories	Pcs	12.00	100.00	1,200.00
9.9	Supply and fix crystal glass mirror 500 x 400 mm Including chrome plated brass clips and screws	Pcs	6.00	1,500.00	9,000.00
	Waste water & Ventilation Pipe				
9.10	Supply and fix water heater complete with all neccessories.				
	a/Capacity 25 litters	Pcs	6.00	4,500.00	27,000.00
9.11	Supply and install , waste and vent pipe in horizontal branches and vertical stacks made of PVC including the necessary fittings such as bends, branches tees, elbow etc. All horizontal branches should be laid at a slope of 2% .				
	Diameter 50 mm	ml	106.00	74.00	7,844.00
9.12	Supply and install vent caps made of PVC at vent pipes fitted with PVC pipe roof weathering slate at roof level.				
	Diameter 50 mm	Pc	25.00	85.00	2,125.00
	Total carried to Summary……	**Birr**			**200,179.00**

Total to Summary for super sturacture …… 3,803,476.95

Name: Mr. AYMEN ALEMU
In the capacity of

Signed:

Duly authorized to sign the Bill of Quantities for and on behalf of .

Dated on December 31, 2019

The above list is given by way of example and is not exhaustive.

(1) Salary if the employee is paid monthly.
(2) Hourly pay if the employee is paid hourly, otherwise monthly salary divided by the legal working hours (hours/month).
(3) Average cost of overtime, i.e. hourly pay times the overtime coefficient.
Average coefficient to be applied to the salary to take account of overtime (= total gross salary/gross salary without overtime).
(4) Percentage of the social security contributions (including social welfare, leave, etc.) times the gross salary (this percentage may vary according to the category of employee).
(5) Average monthly or daily travel time divided by the number of daily or monthly legal working hours.

This list is not exhaustive.

(1) Geographical location of the Contractor or quarry.
(2) Supply or cost price at the quarry or on delivery in the country.
(3) Cost price of transport from the quarry or delivery to the Site.
(4) To be borne by the Contractor.
(5) Any losses or breakages to be determined by the Bidder.

Breakdown of basic hourly prices for equipment (converted into currency indicated in SCC)

AS A new contractor, almost all equipments are rented because their initial cost is higher and

Name: Mr. AYMEN ALEMU
In the capacity of
Signed:

Duly authorized to sign the Bill of Quantities for and on behalf of .

Dated on December 31, 2019

Breakdown of unit prices in the price schedule (converted into currency indicated in SCC)

Break down of our work is attached separately at the end of this file in the form of pdf.

Name: Mr. AYMEN ALEMU
In the capacity of
Signed:

Duly authorized to sign the Bill of Quantities for and on behalf of .

Dated on December 31, 2019

ITEM NO.	DESCRIPTION	UNIT PRICE
	Perssonel	
1	**Foreman**	37.5
2	Glazer	37.5
3	D/L	18.75
4	Carpenter	37.50
5	Helper	18.75
6	Mason	37.50
7	EL	5
8	Plaster	37.5
9	Bar bender	31.25
10	Chiseler	31.25
11	Plumber	
12	G.Chief	
13	Operator	70
14	Driver	50
15	Painter	37.5
16	tiler	37.5
17	Welder	37.5
	Material	
17	2.5cm thick timber	325
18	40 x 50 cm. battens	56.25
19	50 x 70 cm battens	25
20		4
21	Nails	65
22	Strut 0 60 mm	6
23	Dev. Size 19 cm.	110

24	Dev. Size40 cm.	210
25	G28 Sheet Metal Down	
26	Pipe Dev. Size 33 cm.	14
27	Pipe Dev. Size 40 cm.	17
28	Staffa For Down Pipe	1.5
29	15 cm. Wide Faciaboard	120
30	20 cm. Wide Faciaboard	150
31	G32 Corugated iron sheet	
32	Roofing Nails	80
33	Plastic Washer	7
34	Ridge Cover	125
35	Upper Chord	7.5
36	Lower chord	7.5
37	Vertical & Diagonal Members	25
38	6 & 8 cm. Nails	65
39	Fixing Bands	55
40	5 X 7 cm. Zigba Purlin	7.5
41	8 cm. Nails	65
42	5 X 7 cm. Zigba Purlin	56.25
43	10 - 12 cm. Nails	65
44	G32 CIS	147
45	O 6 cm. Eucaliptus Wood	25
46	5 X 7 cm. Tid Purlin	56.25
47	Cement	385
48	Sand	562.5
49	Gravel (02)	500
50	Water	10
51	Gravel (02)	500
52	Stone	300
53	ϕ 6 - ϕ 8 mm plain bars	43
54	ϕ 10-deformed bars	38.75
55	ϕ 14-deformed bars	38.01
56	1.5 mm black Annealed wire	60
57	15 cm. Thick HCB	10
58	BANZEL	16.7
59	L Tubular section	8
60	T " "	8
61	Z " "	8
62	Sheet metal (2mm thick)	65
63	Cylinderical lock	85

64	Hinges	12
65	Screw for hinges	0.6
66	Electrode (3.2 mm)	0.3
67	Anchor (iron mongery)	2.25
68	Anti - rust	60
69	Tinner	5
70	RHS of 30x10x1.2mm	7
71	RHS of 50x30x1.2mm	7.5
72	RHS of 80x40x2.0mm	7.5
73	RHS of 15x15mm	7
74	RHS of 25x25mm	7
75	RHS of 20x20mm	7
76	RHS of 30x10mm	7
77	RHS of 30x20mm	7
78	Hard board	16.67
79	Batten (4 X 5 cm)	22.5
80	Corner list	3
81	Center list	1.25
82	Chip wood	220
83	Zigba wood	3000
84	Ply wood (Mahogony)	60
85	Ply wood (Kerero)	29.55
86	Cylinderical lock	250
87	Hing	54
88	Screw	0.1
89	Colla	25
90	Nails Of diff. Size	8
91	Door list (Mostra)	4
92	T & G Tidwood	100
93	4 X 5 cm. Zigba purlin	3
94	Corner list	3
95	Nails of diff. Size	8
96	Tid wood frame (external)	1400
97	Tid wood frame (internal)	1400
98	4 mm. clear glass	365
99	Putty	30
100	20 x 20 cm. cement tile	13.8
101	20 x 20 cm. terrazzo tile	13
102	polish	28
103	2 cm. thick harar marble	1050

104	harar marble cill for HCB	1300
105	30mm white marble	1050
106	white marble cill for HCB	360
107	7mm thick ceramic tile	342
108	PVC tile	380
109	adhesive glue	750
110	parque	1300
111	marble slate	135
112	ceramic tile skirting	45
113	2mm pvc skirting	35
114	20 x 20 cm. ceramic tile	13.8
115	cement grout	385
116	plastic paint	59.4
117	stucco	8
118	animal glue	80
119	brush	65
120	sand paper	7.5
121	gypsum	4
122	thinner	4
123	synthetic paint	24.18
124	varnish paint	134.92
125	sand paper	7.5
126	quartiz	190
EQUIPEMENT		
127	Mixer	62.5
125	Vibrator	25
126	wood machine	20
127	Compinanto	10
128	Vice	6
129	Tools	4.44
130	grinder	10
131	Welding & Grinding machine	253.07
132	Painting Tools	64.47
133	loader	700
134	dump truck	330

Detailed Breakdown of Site Costs (converted into currency indicated in SCC)

Detailed cost breakdown is given using soft-copy.

Name: Mr. AYMEN ALEMU
In the capacity of
Signed:

Duly authorized to sign the Bill of Quantities for and on behalf of .

Dated on December 31, 2019

TECHNICAL PROPOSAL

Technical Proposal

Place and Date; G+1 MULTIPURPOSE No 401 January 27, 2019
Procurement Reference Number: EM/001/2019

To: Employer: ABC PLC
Attention:
P.O. Box: 32863
Street Address: NifasSilekLafto Sub-City, Woreda 03, Bayen Bldg
Town/City: Addis Ababa, Ethiopia

1. Personnel

The following Team Skill Matrix identifies the personnel to be employed on the contract and their skills that are relevant to the role in the contract team and are required for successful execution of the contract:

Proposed Personnel

Expert Name	Sewit Daniel
Title of Position:	General manager
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in construction technology management	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
5 years	Proficient
Relevant experience	**Knowledge Level**
2 years	Proficient

Expert Name	Dagim Tadele
Title of Position:	Project manager
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in construction technology management	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
4 years	Proficient
Relevant experience	**Knowledge Level**
2 years	Proficient

Expert Name	Leul Yared
Title of Position:	Construction engineer
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in civil engineering	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
3 years	Proficient
Relevant experience	**Knowledge Level**
2 years	Proficient

Expert Name	Kaleb Tensay

Title of Position:	Office engineer
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in construction technology	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
3 years	Proficient
Relevant experience	**Knowledge Level**
2 years	Proficient

Expert Name	Japi Teke
Title of Position:	Project administrator
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in construction technology	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
2 years	Proficient
Relevant experience	**Knowledge Level**
1 years	Proficient

Expert Name	Endalkachew Negusse
Title of Position:	Human resource manager
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in management	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
2 years	Proficient
Relevant experience	**Knowledge Level**
1 years	Proficient

Expert Name	Kirubel Desta
Title of Position:	Financial administrator
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in construction technology	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
2 years	Proficient
Relevant experience	**Knowledge Level**
1 years	Proficient

Expert Name	Zerihun Kagne
Title of Position:	Contract administrator
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in construction technology	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
2 years	Proficient
Relevant experience	**Knowledge Level**
1 years	Proficient

Expert Name	JORDANO JOMOLE JORGE
Title of Position:	Purchasing and supply manager
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in construction technology	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
4 years	Proficient
Relevant experience	**Knowledge Level**
2 years	Proficient

Expert Name	JEMAL SIRAJE NEGEWO
Title of Position:	Quality control manager
Nationality:	Ethiopia
Qualification	**Knowledge Level**
Bachelor of science in construction technology	Proficient
Years of experience (with the company/in works)	**Knowledge Level**
3 years	Proficient
Relevant experience	**Knowledge Level**
2 years	Proficient

2. Proposed Equipment

The contractor provides the following equipment to the construction

No.	DESCRIPTION (type/make/model)	Power/ capacity	No of units	Age (years)	Source of equipment	Current Location
A. Construction Plant						
1	Compactor(10T)	10 ton	1	3	Owned Rented Leased	
2	Surveying Instruments		1	2	Owned Rented Leased	
3	Generator 20KVA	20kva	1	2	Owned Rented Leased	
4	Welding Machine		2	1	Owned Rented Leased	
5	Formwork(m^2)	3000m^2		1	Owned Rented Leased	
6	Concrete mixer	350Lt	2	4	Owned Rented Leased	
B. Vehicles and Trucks						
1	Dump Truck	16m3	3	2	Owned Rented Leased	
2	Transport vehicle	20 ton	1	5	Owned Rented Leased	

3. Work Plan and Site Organization

Site Organization, Sourcing and Procurement of construction materials

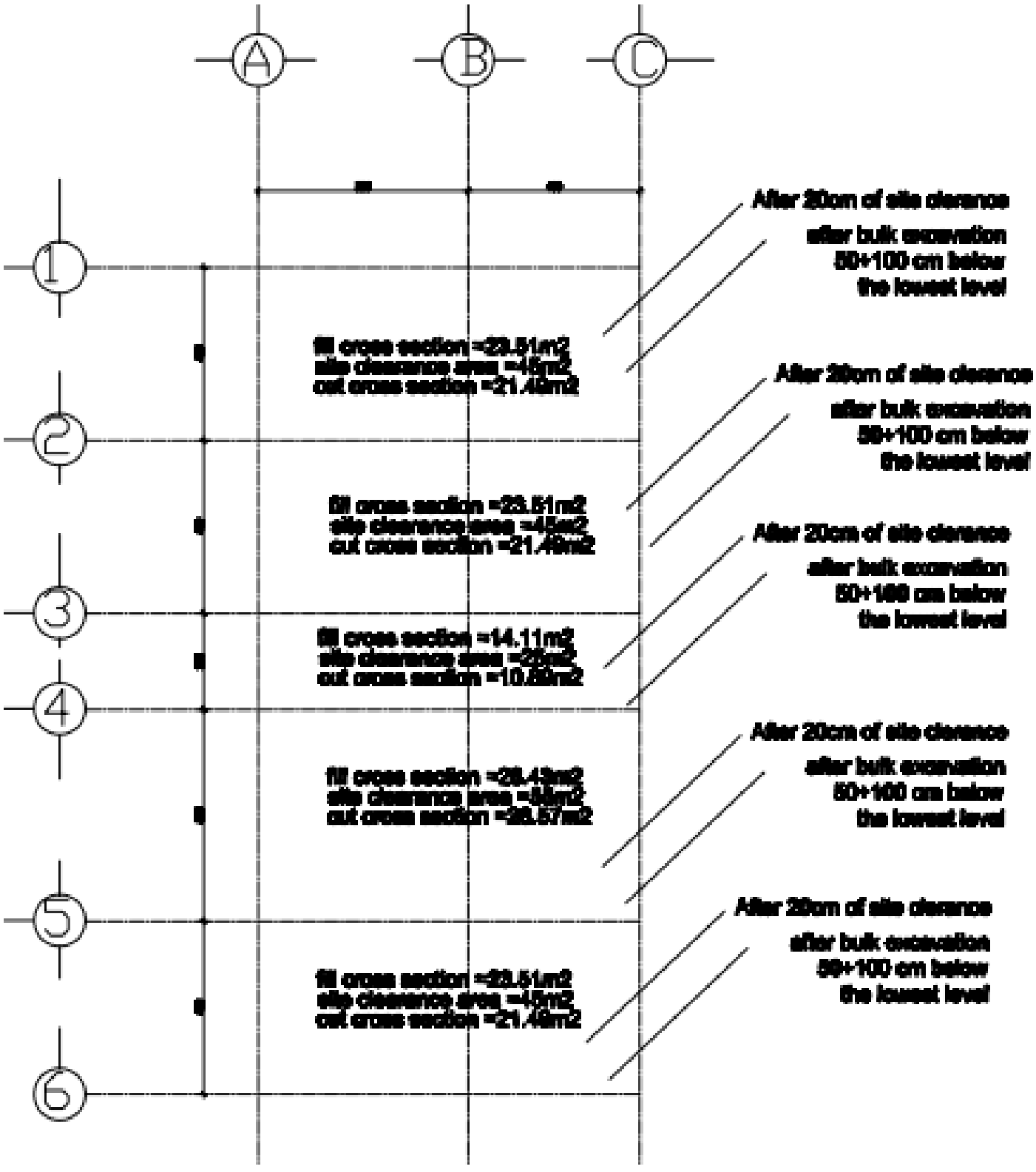
A carefully conceived and robust site organization is a prerequisite to the provision of effective management at operation level through to supervision of the site works.

Site Layout

As the topography of the site is not flat, makes the construction activities uncomfortable. We had calculated the level of earth work before the construction based on the surveying data collected.

Note

Depth of Trench excavation	1m from the lowest point
Depth of Pit excavation	3.5m from FFL
Depth of Bulk excavation	0.8 m from the lowest point

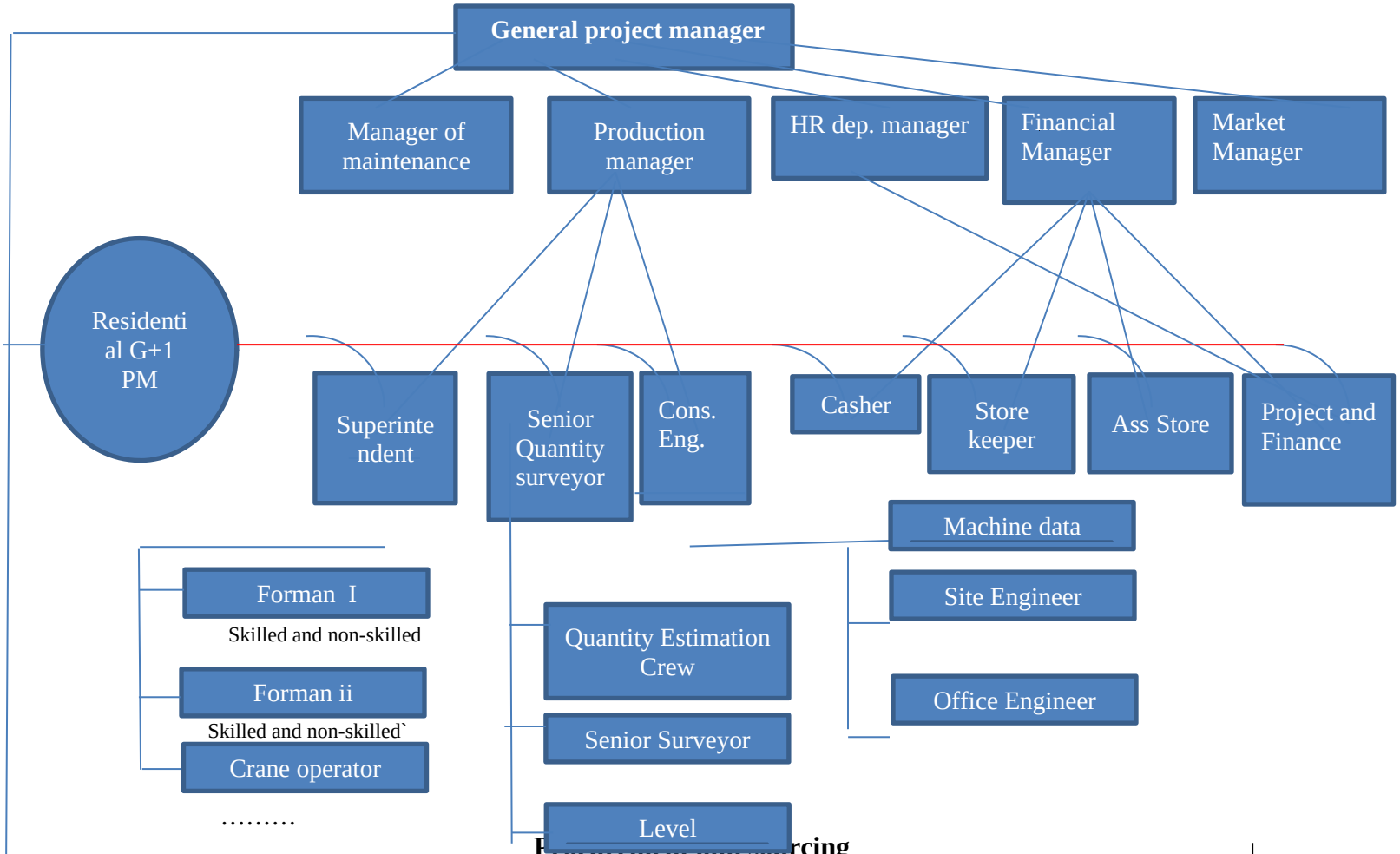

A
B
C
1
2
3
4
5
6
After 20cm of site clearance
after bulk excavation
50+100 cm below
the lowest level
fill cross section =23.51m2
site clearance area =45m2
cut cross section =21.49m2
After 20cm of site clearance
after bulk excavation
50+100 cm below
the lowest level
fill cross section =23.51m2
site clearance area =45m2
cut cross section =21.49m2
After 20cm of site clearance
after bulk excavation
50+100 cm below
the lowest level
fill cross section =14.11m2
site clearance area =45m2
cut cross section =10.89m2
After 20cm of site clearance
after bulk excavation
50+100 cm below
the lowest level
fill cross section =28.43m2
site clearance area =45m2
cut cross section =26.57m2
After 20cm of site clearance
after bulk excavation
50+100 cm below
the lowest level
fill cross section =23.51m2
site clearance area =45m2
cut cross section =21.49m2

If we win the project, we will establish the layout of the site in such a manner giving maximum attention for our daily performance. We will manage the timely completion of works with respect to the amount of materials purchased and delivered on the site.

Human Resources Organization of the site

With regard to human resources, the site will be organized in such a manner to create clear chain of command and to produce quality of works within the given time. In doing so the company vision, mission, policies, aims and objectives must be successfully disseminated throughout the project. Management systems or sets of procedures and working instructions which guide and direct the project staff need to be clearly specified and effectively implemented. In consideration of these and size of the project, the following human resources organization is proposed for this particular project.

Manpower Chart flow



Procurement and sourcing

The purpose of the supply sourcing is to buy materials and services of the right quality, in the right quantity, and at the right price from the source at the right time. Purchasing and supply

department of our company is mainly responsible for determining which bulk materials, commodities, or services are best; choose the material or service; negotiate the lowest price and award contracts that ensure that the correct amount of the material or service is received at the appropriate time. The purchasing and supply department has suppliers list where suppliers are listed according to their stream of service. Based on the reliability, quality and price, materials are going to be purchased from companies with good reputation. For instance

- Cement is going to be purchased from either MUGHER or MESSEBO cement factories
- Reinforcement bar from Abyssinia/KALITY steel Trading
- Marble from Saba Stone or SOF Omer Marble or National mining
- Ceramic and Porcelain from ETHIO Ceramics
- Sanitary materials from PGA Tech
- Electrical materials from DAMA Trading or ABOGNE General Trading.
- Roofing materials from KOSPI or Ethiopian steel
- River sand: this is going to be delivered from KALITY/LEGEHAR as per the approval and test results
- Gravel: This will be delivered from KALITY town.
- Selected Material and red ash: This will be delivered from outskirts of KALITY City
- Stone for masonry: This is going to be supplied to site from around Wingate/KALITY city.

The materials required for the project will be quantified and identified at the initial stage of the project. Ethiop has its procurement policy which materials should be purchased by Head Office and which by the project. Then as per the approved material schedule, materials will be purchased and supplied to projects in order to guarantee the continual progress of the project. In doing so on –site team under the control of the Project Manager will be responsible for initiating purchase orders and monitoring their progress through various phases of the procurement process. The status of the procurement schedule will be monitored by the Project Manager and Chief Engineer at the Head Office.

Purchasing procedures include submission of catalogues, technical specifications, quality certificates & samples for approval to the consultant in order to ensure that quality standards are as those laid down in the specification. Approval schedule will be also separately prepared at the early stage of the project for shortening the lengthy time of purchasing process. All samples of material purchased shall be approved prior to delivery to the site.

Transportation and storage

Purchased material must be transported to their final destination. Transportation can be done by using rented trucks. The most commonly adopted method in our case is the former. The supply

division is responsible for transportation of purchased items until they are safely arrived at site. On arrival at site the store head with relevant staff receives the materials by comparing with the document and by counting the items. After this each material is going to be stored in its respective storage areas. What is usually done was storing materials which absorb moisture like cement and gypsum and materials which can be easily damaged by direct sunlight and fragile materials are going to be stored in warehouses while materials like reinforcement bars, sand, gravel, eucalyptus poles, and stones are put on outside the store. (Reinforcement bars are covered with “SHERA” & elevated from the ground while being outside to prevent them from being rusted). The procedure that we follow in issuing materials is First-in-first-out which prevents longer shelf life.

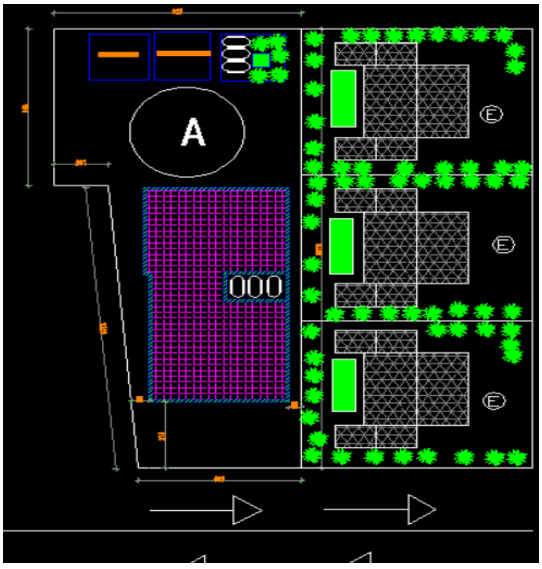
Site layout

In our project we are try to segment our necessities to execute the project. But all facilities are not applied at once. Beside to this we classify the necessary facilities in to two.

1. **Basic Facilities:**
   - Site office
   - Security
   - Material Storage/store
2. **Flexible/ Optional facilities:**

Concrete transportation pulley:
To erect the pulley in the site, it needs something completed, because the pulley used to transport construction materials from the mixing area to the upper story.
Cement store and Reinforcement bar:
The rebar preparation begins and done in parallel with pit excavation.
Cement transportation and storage will be done a day before it is needed.

SITE PLAN

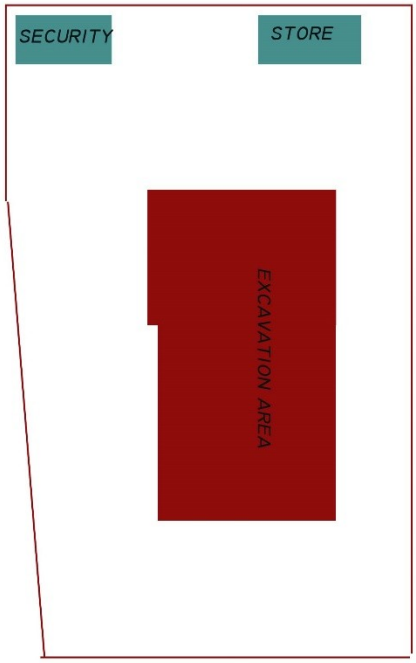


The site is bounded by neighboring which we can't excavate or use, so we will have to face some challenges during the construction.

CASE ONE: DURING EXCAVATION

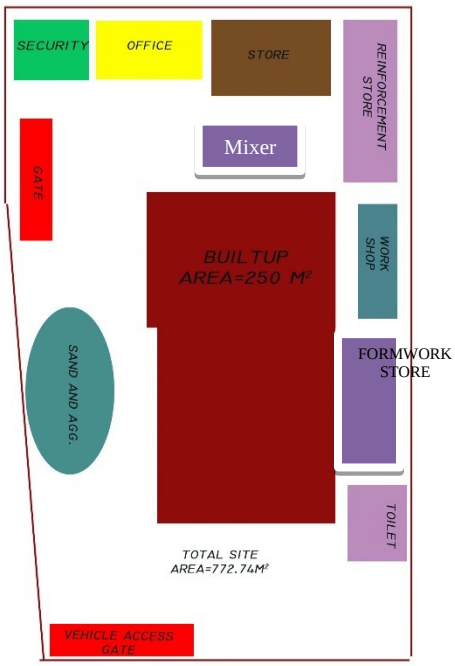
The buildup area covers 33% of the client's land and in front of the entrance we have 8.13m.

During site clearing, bulk excavation, and pit excavation we will have only two toilets, security area and some space for tools to be placed.



1. There is existing access road to our suppliers.
2. We were assuming to execute the project by using our space economically and effectively. As much as possible we don't need to disturb the environment.

CASE TWO: SUB STRUCTURE WORK



Formwork store area (stored)	10m2
Reinforcement preparing area	13m2

Right after the excavation is completed, in parallel we will have the reinforcement prepared

And during the last days of excavation, sand aggregate will be stored inside the gate to keep road access free.

Mixer will be positioned Infront off the store to reduce material supply distance and minimize the time it takes.

DURING SUB STRUCTURE CONCRETING

After concrete is casted and cured backfill, trench masonry, and grade beam will be done using the same lay out.

SUB STRUCTURE CONCRETE WORK STARTED

THE CONCRETE WORK IS STARTED AFTER THE EXCAVATION WORK COMPLETED.

In this time we are in the position of to place form work, reinforcement preparation including cutting, bending, placing, starting concrete production and pouring of the concrete.

In our project the concrete delivery and concreting production process classifying as **wing production and delivering department one** and **wing production and delivering department two** to produce large volume of concrete , increase and accelerating production, better management and administration in order to accomplish the project with the three basic issues. Time, quality and cost.

To do so we combine the following things.

A. **Concrete production**:

The Mixer, sand and aggregate are placed nearby to facilitate the concrete production.

B. **For both cases use the same coarse aggregate and sand storage area**.

The following new site organization facilities are created in these activities this are: which are found in site organization;

1. Sand, aggregate storage and mixing place
2. Cement and General Storage including store keeper
3. One mixer with their respective wing
4. Reinforcement preparation workshop
5. Formwork storage area

4. Method Statement

.

Work methodology of earth work includes:

- Setting Out
- site clearance
- bulk excavation
- pit and trench excavation

Setting out

Surveying will be carried out by total station and leveling through skilled professional. Performing the job by the cited instrument will enable the respective professional to decide and

limit the real topography of the site. Establish lines, grades, elevations and benchmarks required for construction. Mark all reference points for establishing lines, grades and elevations.
The basic coordinates of each building will be set in position in accordance to the given bench mark and left the site to the next proposed work and the surveying equipment is needed in almost all activities of the project until the project's completion (**leveling equipment**; to measure the level of the floors…)

6. Construction Schedule

Attached separately on this file by pdf formatting. Labor, material and equipment usages attached separately

Work intended to be subcontracted	Name and details of subcontractors	Value of subcontract as percentage of the total cost of the project	Experience in similar work (details to be specified)
Aluminum Work	Zobel aluminum trading	9.1%	9 years
Formwork	Zeru formworks	2.8%	6 years
Rebar	Yoda steel works	4%	12 years
Sanitary Installation	Santi Sanitary	5.2%	10years

7. Others

Name: Mr. AYMEN ALEMU
In the capacity of
Signed:

Duly authorized to sign the Bill of Quantities for and on behalf of .

Dated on December 31, 2019

20

Attachments:

1. CVs of the proposed personnel signed by the staff themselves or by the authorized representative of the proposed staff;
2. Design Documents and Drawings (Form C of Section 6).

A. Curriculum Vitae for Proposed Personnel

1. Proposed Position: _____

2. Name of Firm: _____

_____

3. Name of Staff: _____

4. Date of Birth: _____**Nationality:** _____

5. Education: _____

_____

6. Membership of Professional Associations: _____

_____

7. Other Training: _

_____

8. Countries of Work Experience: _____

_____

9. Languages: _____

10. Employment Record: _____

From: _____ **To**: _____

Employer: _____

Positions held: _____

11. Detailed Tasks Assigned:	**12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned:** Name of assignment or project: _____ Year: _____ Location: _____ Client: _____ Main project features: _____ Positions held: _____ Activities performed: _____

13. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

_____ Date: _____

Full name of authorized representative: _____

B. Form - Data on Joint Venture/Consortium

Date:

Procurement Reference Number:

Alternative No:

1.	**Name of Joint Venture/Consortium**	
2.	**Managing Board's Address**	
	P.O. Box:	
	Street Address:	
	Town/City:	
	Post Code:	
	Country:	
	Telephone:	
	Facsimile:	
	E-mail address	
3.	**Agency in the Federal Democratic Republic of Ethiopia, if any (in the case of a joint venture/consortium with a foreign lead member)**	
	P.O. Box:	
	Street Address:	
	Town/City:	
	Post Code:	
	Telephone:	
	Facsimile:	
	E-mail address	
4.	**Names of Members**	
	Member 1	
	Member 2	
	Etc.	
5.	Name of Lead member	
6.	**Agreement governing the formation of the joint venture/consortium**	
	Date of signature	
	Place	
7.	Proposed proportion of responsibilities between members (in %) with indication of the type of the works to be performed by each	

Name: Mr. AYMEN ALEMU
In the capacity of
Signed:

Duly authorized to sign the Bill of Quantities for and on behalf of .

Dated on December 31, 2019

BID SECURITY

Date: DECEMBER 31,2019
Procurement Reference No: EM/001/2019

To: MR. XYZ PLC

Whereas GROUP 2 construction plc. (hereinafter "the Bidder") has submitted its Bid dated FEBURUARY 31 2019 for Procurement reference Number for the construction of G+1 multipurpose building here in after called "the Bid."

Know all people by these presents that we Zemen bank, of having our registered office at Kazanchis Street (hereinafter "the Guarantor"), are bound in to MR.XYZ PlC (hereinafter "the Employer") in the sum of 150,000.00 (ETB: One hundred fifty thousand birr only), for which payment well and truly to be made to the aforementioned Public Body, the Guarantor binds itself, its successors or assignees by these presents. Sealed with the Common Seal of this Guarantor

THE CONDITIONS of this obligation are the following:

1. If the Bidder withdraws its Bid during the period of Bid validity specified by the Bidder in the Bid Submission Sheet, except as provided in ITB Sub-Clause 20.2; or
2. If the Bidder, having been notified of the acceptance of its Bid by the Public Body, during the period of Bid validity, fails or refuses to:
   (a) Execute the Contract; or
   (b) Furnish the Performance Security, in accordance with the ITB Clause 47; or

We undertake to pay the Employer up to the above amount upon receipt of its first written demand, without the Employer having to substantiate its demand, provided that in its demand the Employer states that the amount claimed by it is due to it, owing to the occurrence of one or more of the above conditions, specifying the occurred conditions.

This security shall remain in force up to and including twenty-eight (28) days after the period of Bid validity, and any demand in respect thereof should be received by the Guarantor no later than the above date.

Name: Sewit Daniel
In the capacity of general manager
Signed:
Duly authorized to sign the Bid for and on behalf of: GROUP 2 Construction plc
Dated on DECEMBER 31,2019