Project : GENERATOR HOUSE
Client: GIZ
Location: ADDIS ABABA

GRAND SUMMARY

1	G+0 GENERATOR HOUSE	-
	TOTAL	-
	ADD10 % Contingency	-
		-
	ADD 15% VAT	-
	GRAND TOTAL	-

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SUMM

A. SUB STRUCTURE

1	Excavation and Earth work	-
2	Concrete Work	-
3	Stone Masonry Work	-
	Total A	-

B. SUPER STRUCTURE

2	Block Work	-
3	Roofing Work	-
4	Metal Work	-
5	Steel Structure	-
6	Plastering Work	-
7	Finishing Work	-
8	Painting Work	-
9	Electrical Installation	-
10	Sanitary Installation	-
	Total B	-
	Total A+B	-

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Item No	D E S C R I P T I O N	Unit	QTY		Amount
	A- SUB STRUCTURE				
	1. EXCAVATION & EARTH WORK				
1.01	Clear off site to remove top soil to an average depth of 300mm from NGL	m^2	36.48		-
					-
1.02	Bulk excavation in ordinary soil to a depth not exceeding 1500 mm.	m^3	18.24		-
					-
1.03	Trench excavation in ordinary soil to a depth not exceeding 1500mm from reduced ground level.	m^3	5.32		-
					-
1.04	Backfill around foundation with selected material brought from site , rammed and rolled in layers not exceeding 200mm thick until it attains its maximum compaction.	m^3	10.18		-
					-
1.05	Backfill under hard core with selected material brought from site rammed and rolled in layers not exceeding 200mm thick until it attains its maximum compaction.	m^3	9.31		-
					-
1.06	Cart away surplus excavated material & deposit to a distance not exceeding 5km from the site.	m^3	30.86		-
					-
1.07	250mm thick basaltic or equivalent stone hard core well rolled, consolidated & blinded with crushed stone.	m^2	14.32		-
	TOTAL CARRIED TO SUMMARY				**-**

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Item No	DESCRIPTION	Unit	QTY		Amount
	2. CONCRETE WORK				
2.01	5cm thick lean concrete class C-5 with minimum cement content of 150kg/m3				
	a) Under masonry stone.	m^2	9.12		-
	b) Under ground floor slab.	m^2	14.32		-
	c) Under Ground Floor Beam	m^2			-
					-
2.02	Reinforced concrete, quality C-25, 360 kg of cement/m3 filled in to form work and vibrated around steel reinforcement (formwork and steel reinforcement shall be measured separately).				-
					-
	a) In Grade Beams.	m^3	1.13		-
	b) In 100mm thick ground floor slab.	m^2	14.17		-
	C) In 200mm thick ground floor slab.	m^2	4.50		-
					-
2.03	Provide, cut and fix in position sawn zigba wood or steel formwork which ever appropriate.				-
					-
	a) To Grade Beams.	m^2	12.04		-
					-
2.04	Reinforcement steel bar according to structural drawings.price shall includes cutting, bending, tying wires & placing in position.				-
					-
	a) dia 8 mm deformed bar.	kg	132.28		-
	b) dia 14 mm deformed bar	kg	92.34		-
					-
2.05	100X10mm thick styrofoam expansion joint filler between ground floor beams.	ml.	15.20		-
	TOTAL CARRIED TO SUMMARY				**-**
	3. STONE MASONRY WORK				
3.01	500mm thick hard trachytic roughly dressed stone masonry foundation wall below ground level bedded in cement mortar (1:4).	m^3	7.60		-
					-
3.02	Ditto but one side exposed face left for plastering, price includes pointing (Above NGL).	m^3			-
	TOTAL CARRIED TO SUMMARY				**-**
	B-SUPER STRUCTURE				
	2. BLOCK WORK				
2.01	Construct 20cm thick Class "A" HCB wall with required compressive strength both sides left for plastering bedded in cement mortar 1:3.	m^2	26.87		-
	TOTAL CARRIED TO SUMMARY				**-**

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Item No	DESCRIPTION	Unit	QTY		Amount
	3. ROOFING WORK				
3.01	Supply and fix G-28 galvanized flat metal sheet Roof cover in accordance with the Architectural detail drawing. Price shall include all necessary accessories, metal bracket suspenders, one coat of antirust paint and two coat of synthetic enamel paint.	m^2	27.44		-
					-
3.02	Supply and fix G-30 galvanized Flat Metal Sheet Gutter with Devlopment Length 500mm as per the detail drawing. Price shall include all necessary accessories, metal brackets, one coat of antirust paint and two coat of synthetic enamel paint.	ml	4.90		-
					-
3.03	Supply, install, test and commission UPVC Pipes(PN6) of approved standards & quality including all necessary fittings such as elbow. Y,Tee ...etc. with tight joints. for storm water drain Down Pipes. Exposed UPVC Down Pipes to sun light shall be painted with UV resistant paint and withstand the external temprature and the quality shall meet the purpose.				-
	a) 110mm	No	7.10		-
	TOTAL CARRIED TO SUMMARY				**-**
	4. METAL WORK				
4.01	Fabricate and fix in position Metal louver door manufactured from 38x1.5mm LTZ frame all as per the engineers approved door schedule. Unit price shall include , louvers blade made of 1mm thick black iron sheet, best quality cylindrical lock, door stopper, one coat of antirust paint, two coats of synthetic paint and other necessary accessories needed to finish the work.				
	Door				
	a) Type D-1 size =2000x 2500mm	No	1.00		-
4.02	Fabricate and fix in position Metal louver Windows manufactured from 38x1.5mm LTZ frame all as per the engineers approval and window door schedule. Unit price includes , louvers blade made of 1mm thick black iron sheet, one coat of antirust and two coats of synthetic paints.				
	Windows				
	a) Type W-1 size 2000x600mm	No	1.00		-
					-
	b) Type W-2 size3400x600mm	No	1.00		-
4.03	Fabricate , assemble and fix Metal grill wall as per the design. The price shall include one coat of antirust, two coats of synthetic enamel paints and other necessary accessories needed to finish the work. (Refer the drawing and methodology should be approved by the Engineer)	m^2	27.76		-
	TOTAL CARRIED TO SUMMARY				**-**

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Item No	DESCRIPTION	Unit	QTY		Amount
	5.0 STEEL STRUCTURE				
	Supply, fabricate and mount steel post and truss according to the structural drawing .Price shall include one coat of antirust and two coats of synthetic enamel paint and all other necessary accessories to complete the work. Material sample, pattern design, shope drawing and methodology should be approved by the Engineer.				
6.01	**post columns.**				
	a) 80x80x3mm	Kg	118.78		-
					-
	RHS TRUSS				-
6.02	Upper and Lower Chord				-
					-
	a) 30x30x3mm	Kg	42.35		-
					-
6.03	Vertical and Diagonal chord				-
					-
	a) 30x30x3mm	Kg	23.45		-
					-
6.04	lattice Purlins				-
					-
	a) 25x25x2.5mm	Kg	74.83		-
					-
6.05	**dia 10 rein bar**	Kg	3.57		-
					-
6.06	Bolts with Nuts				-
					-
	a) Dia. 16 mm J Bolt Devlopment Length 350 mm	Pcs	16.00		-
					-
6.07	Angle Iron				-
	a) Size 40x25x25x3mm	Pcs	10.00		-
					-
6.08	Metal plates				-
					-
	a) Size (200x200x8mm)	Pcs	4.00		-
	TOTAL CARRIED TO SUMMARY				**-**
	6. PLASTERING WORK				
6.01	Apply three coats of plastering in cement mortar (1:3)Price shall include exposed surface of beams & column,pre-cleaning and preparation of the surface.				
	a) To external and internal wall surface.	m^2	53.73		-
					-
	TOTAL CARRIED TO SUMMARY				**-**

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Item No	DESCRIPTION	Unit	QTY		Amount
	7. FINISHING WORK				
7.01	50mm thick cement sand screed paterned trawel finished flooring in mortar mix (1:3).	m^2	13.94		-
					-
7.02	Approved type Terrazo window cill bedded on cement mortar of size 27/3 cm	m	5.40		-
					-
7.03	10 cm thick C-20 RC 1.2 m wide pavement (including 4Ø 8 deformed bar mesh ,expnasion joint at every 1.2 m length, 80 cm bulk excavation, 55 cm thick selected fill, 20 cm basaltic hard core and cart away).	m2	21.12		-
7.04	Supply and lay storm water concrete pipes of half diameter 30cm with a minimum slope of 2% or natural ground slope which ever is greater on and including a firm bed of red ash 100mm thick below. The joints shall be grouted in cement sand mortar of (1:3). Price shall include 15cm thick stone masonry shoulder and all the necessary earth work mentioned in item number 1	ml	20.60		-
	TOTAL CARRIED TO SUMMARY				**-**
	8. PAINTING				
8.01	Apply three coats of approved quality plastic emulsion paint.Price shall include pre-cleaning and preparation of surfaces.				
	a) ToInternal wall surface.	m^2	26.87		-
	b) To external wall surface.	m^2	26.87		-
	TOTAL CARRIED TO SUMMARY				**-**

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Item No	DESCRIPTION	Unit	QTY		Amount
	9. ELECTRICAL INSTALLATION				
	1. LIGHT POINTS				
1.1	Light points fed through PVC insulated copper conductors of 2x2.5mm^2 inside PVC conduits of 16mm diameter for recessed installation, including junction boxes with covers and insulating type screw cap connectors for complete installation.	No	1		-
1.2	Extra over light points flush mounted *Legrand* Galea cover plates and frames with mechanism :				
1.2.1	single pole switches	No	1		-
	2. SOCKET OUTLET *(Siemens shucko type)*				
	Legrand Galea cover plates and frame with mechnism or equivalent price shall include cost of socket outlet .cable.conduit and accessories				
2.1	Flush mounted socket outlets of 10/16A(1-ph) with earthing contact terminal and fed through PVC insulated copper conductors of 3x2.5mm2 inside PVC conduit of 19mm diameter for recessed installation including junction boxes with covers and insulating screw cap connectors	No	1		-
	3,LIGHT FITTINGS:LUMINAIRES WITH LAMPS SPECIFIED OR APPROVED EQUIV.				
3.1	PHILIPS TCS 097/136 IC + 2xTLD 36W	No	1		-
	4. FEEDER CABLES				
	The Cables shall be Multi-core cables with copper conductors, PVC insulated PVC sheathed, colour coded, supplied, installed, connected and tested, including mounting clips, tags, and conductor coding, complete, all as specified and / or as shown on the drawings.				
4.1	3x95/50 From GENSET(110KVA) to RID- ATS board inside 110mm UPVC (Tentative Measurement).	M.	8		-
4.2	3x95/50 From GENSET(130KVA) to RID- ATS board inside 110mm UPVC (Tentative Measurement).	M.	8		-
	5,PVC PIPES				
5.1	DIAMETER 110MM	Ml.	12		-
	6, EARTHING SYSTEM				
6.1	Earthing rod of diameter 16mm (1pc, complete with driving stud, coupler, spike and rod to cable clamp, all connected with eachother using earthing cable) driven to depth of 2400mm (minimum) so as to attain efficient earthing system (price shall include cost of inspection pit)	No	1		-
6.2	Earthing bare conductor of 1x50mm^2	ml	10		-
6.3	Manhole in brick or masonry, including reinforced concrete cover with lifting lug Rectangular Concrete Manhole Size 800x800x700mm	NO.	1		-
6.4	Supply and fix black steel flanged smoke exhaust pipe based on the generator factory preparation with a minimum thickness of 1mm.The flange coupling must be with heat resistant gaskets to protect any smoke leakage Dia. 150mm	ml	5		-
	TOTAL CARRIED TO SUMMARY				**-**
	10. Sanitary installations				

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Item No	D E S C R I P T I O N	Unit	QTY		Amount
9.19	Supply and mount fire extinguishers of class ABC				
	multi purpose type provided with all accessories				
	and mountings located near each FHR				
	size: 5kg	No	2		-
	TOTAL CARRIED TO SUMMARY				**-**